

## North Star High Voltage Probe/Divider User Technical References

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Richard J Adler,  
NSHV President

### **A Tesla-pulse forming line-plasma opening switch pulsed power generator**

Novac, B.M., KUMAR, R., and SMITH I.R., Review of Scientific Instruments, Volume 81, 104704, (2010).

<https://aip.scitation.org/doi/full/10.1063/1.3484193>

### **Electrical breakdown of water in microgaps**

Karl Schoenbach, Juergen Kolb, Shu Xiao, Sunao Katsuki, Yasushi Minamitani, and Ravindra Joshi, Plasma Sources Science and Technology, Volume 17, Number 2, 1 May (2008).

<https://iopscience.iop.org/article/10.1088/0963-0252/17/2/024010#:~:text=%20Electrical%20breakdown%20of%20water%20in%20microgaps%20,in%20the%20prebreakdown%20phase%20was%20shown...%20More%20>

### **FRX-L: A field-reversed configuration plasma injector for magnetized target fusion**

J. M. Taccetti, T. P. Intrator, G. A. Wurden, S. Y. Zhang, R. Aragonéz, P. N. Assmus, C. M. Bass, C. Carey, S. A. deVries, W. J. Fienup, I. Furno, S. C. Hsu, M. P. Kozar, M. C. Langner, J. Liang, R. J. Maqueda, R. A. Martinez, P. G. Sanchez, K. F. Schoenberg, K. J. Scott, R. E. Siemon, E. M. Tejero, E. H. Trask, M. Tuszewski, and W. J. Wagenaar, Review of Scientific Instruments, 74, 4314, (2003).

<https://aip.scitation.org/doi/10.1063/1.1606534>

### **Investigation of a scalable barrel atmospheric plasma reactor for the treatment of polymer particles**

Hisham M. Abourayana, Vladimir Milosavljevic, Peter Dobbyn, Patrick J. Cullen, Denis P. Dowling, Surface and Coatings Technology, Volume 308, 25 December (2016), Pages 435-441.

<https://www.sciencedirect.com/science/article/abs/pii/S0257897216307290>

### **A 100 kV, 20 A, 1 ms long pulse solid-state Marx modulator for klystron**

Mahesh Acharya and Purushottam Shrivastava,

Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 905, 11 October (2018), Pages 96-103.

<https://www.sciencedirect.com/science/article/pii/S0168900218308726>

## Technical Papers Referencing North Star High Voltage Probes/Dividers

**Design and testing of the 40 kV/20A solid-state switch based on SiC MOSFETs for ECRH on J-TEXT Tokamak** Dongyu Wang, Ming Zhang, Shaoxiang Ma, Kexun Yu, Yuan Pan, Fusion Engineering and Design, Volume 153, April (2020), 111483.

<https://www.sciencedirect.com/science/article/abs/pii/S0920379620300314>

**Autonomous pulsed power generator based on transverse shock wave depolarization of ferroelectric ceramics** Sergey I. Shkuratov, Jason Baird, and Evgueni F. Talantsev, Review of Scientific Instruments, 81, 126102, (2010).

<https://aip.scitation.org/doi/10.1063/1.3505489>

**Effects of pulsed electric energy on sucrose nucleation in supersaturated solutions** Oleksii Parniakov, Pierre Adda, Olivier Bals, Nikolai Lebovka, Eugene Vorobiev, Journal of Food Engineering, Volume 199, April (2017), Pages 19-26.

<https://www.sciencedirect.com/science/article/abs/pii/S0260877416304381>

**Direct and controllable nitric oxide delivery into biological media and living cells by a pin-to-hole spark discharge (PHD) plasma**

D Dobrynin, K Arjunan, A Fridman, G Friedman, and A Morss Clyne, Journal of Physics D: Applied Physics, Volume 44, Number 7, 28 January (2011).

<https://iopscience.iop.org/article/10.1088/0022-3727/44/7/075201>

**Enhancement of oil spreadability of biscuit surface by nonthermal barrier discharge plasma** N.N.Misra, Carl Sullivan, S.K. Pankaj, Laura Alvarez-Jubete, Raquel Cama, Frank Jacoby, P.J.Cullen, Innovative Food Science & Emerging Technologies, Volume 26, December (2014), Pages 456-461.

<fs://www.sciencedirect.com/science/article/pii/S1466856414001507>

**Non-thermal dielectric barrier discharge plasma induces angiogenesis through reactive oxygen species** Krishna Priya Arjunan, Gary Friedman, Alexander Fridman, and Alisa Morss Clyne, J R Soc Interface, (2012), Jan 7; 9(66): 147–157.

<https://ieeexplore.ieee.org/document/6090680?reload=true&arnumber=6090680>

**In-package nonthermal plasma degradation of pesticides on fresh produce** N.N.Misra, S.K Panjaj, Tony Walsh, Finbarr O'Regan, Paula Bourke, P.J.Cullen, Journal of Hazardous Materials, Volume 271, 30 April (2014), Pages 33-40.

<https://www.sciencedirect.com/science/article/abs/pii/S0304389414000958>

**Development and testing of an active high voltage saturation probe for characterization of ultra-high voltage silicon carbide semiconductor devices** Argenis V Bilbao, James A Schrock, William B Ray 2nd, Mitchell D Kelley, Shad L Holt, Michael G Giesselmann, Stephen B Bayne, Review of Scientific Instruments, 86(8), (2015). <https://pubmed.ncbi.nlm.nih.gov/26329230/>

**Plasma excitation dependence on voltage slew rates in 10–200 Torr argon–nitrogen gas mixture DBD** Feng Liu, George Huang, and Biswa Ganguly, Plasma Sources Science and Technology, Volume 19, Number 4, 28 June (2010).

<https://iopscience.iop.org/article/10.1088/0963-0252/19/4/045017/meta>

**Interpretation of the gas flow field modification induced by guided streamer ('plasma bullet') propagation**

P K Papadopoulos, P Vafeas, P Svarnas, K Gazeli, P M Hatzikonstantinou, A Gkelios, F Clément, Journal of Physics D: Applied Physics, Volume 47, Number 42, 18 September (2014).

<https://iopscience.iop.org/article/10.1088/0022-3727/47/42/425203/meta>

**The role of non-thermal transient plasma for enhanced flame ignition in C<sub>2</sub>H<sub>4</sub>–air**

D Singleton, S J Pendleton, and M A Gundersen, Journal of Physics D: Applied Physics, Volume 44, Number 2, 16 December (2010).

[https://www.researchgate.net/publication/230912966\\_The\\_role\\_of\\_non-thermal\\_transient\\_plasma\\_for\\_enhanced\\_flame\\_ignition\\_in\\_C2H4-air](https://www.researchgate.net/publication/230912966_The_role_of_non-thermal_transient_plasma_for_enhanced_flame_ignition_in_C2H4-air)

**Electron emission and plasma generation in a modulator electron gun using ferroelectric cathode** Shutao Chen, Shuxin Zheng, Ziqiu Zhu, Xianlin Donga, Chuanxiang Tang,

Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 566, Issue 2, 15 October (2006), Pages 662-667.

<https://www.sciencedirect.com/science/article/pii/S0168900206013441>

**Comparison of Direct and Indirect Effects of Non-Thermal Atmospheric-Pressure Plasma on Bacteria** Ari D. Brooks, Manjula Balasubramanian, Alexander Fridman, Alexander Gutsol, Victor N. Vasilets, Halim Ayan, Gary Friedman, Plasma Process Polym., (2007), 4, 370-375.

<https://onlinelibrary.wiley.com/doi/abs/10.1002/ppap.200600217>

**Preparation of silver nanocolloidal solution by cavitation bubble plasma**

Yoshihiro Okaa, Tomoya Kuroshimaa, Kohei Sawachikaa, Michiru Yamashitab, Mitsumasa Sakaob, Keiichiro Ohnishic, Keiichi Asamic, Mitsuyasu Yatsuzukaa, Vacuum, Volume 167, September (2019), Pages 530-535.

[https://www.researchgate.net/publication/325109380\\_Preparation\\_of\\_silver\\_nanocolloidal\\_solution\\_by\\_cavitation\\_bubble\\_plasma](https://www.researchgate.net/publication/325109380_Preparation_of_silver_nanocolloidal_solution_by_cavitation_bubble_plasma)

**Large scale Tesla coil guided discharges initiated by femtosecond laser filamentation in air**

L. Arantchouk, G. Point, Y. Brelet, B. Prade, J. Carbonnel, Y.B. Andre, A. Mysyrowicz, and A. Houard, JOURNAL OF APPLIED PHYSICS, 116, 013303, (2014).

<https://aip.scitation.org/doi/10.1063/1.4886582>

**Extending the volume of atmospheric pressure plasma jets through the use of additional helium gas streams**

Michael J Johnson, David R Boris, Tzvetelina B Petrova, and Scott G Walton, 21 January (2020), Volume 29, Number 1. <https://iopscience.iop.org/article/10.1088/1361-6595/ab5b55>

**Wound healing using plasma modified collagen**

Liam O'Neill, Peter Dobbyn, Mangesh Kulkarni, Abhay Pandit, Clinical Plasma Medicine, Volume 12, p 23, December (2018).

<https://www.sciencedirect.com/science/article/abs/pii/S2212816618300295>

**Optical emission behaviors of C, Al, Ti, Fe, Cu, Mo, Ag, Ta, and W wire explosions in gaseous media**

Ruoyu Han, Jiawei Wu, Aici Qiu, Physics Letter A, Vol 383, p 1946, June (2019).

<https://www.sciencedirect.com/science/article/abs/pii/S0375960119302580>

**Vibrational and rotational CARS measurements of nitrogen in afterglow of streamer discharge in atmospheric pressure fuel/air mixtures**

S J Pendleton, A Montello, C Carter, W Lempert, and M A Gundersen, Journal of Physics D: Applied Physics, Volume 45, Number 49, 9 November (2012).

<https://iopscience.iop.org/article/10.1088/0022-3727/45/49/495401>

**Comparison of pulsed corona plasma and pulsed electric fields for the decontamination of water containing Legionella pneumophila as model organism**

Robert Banaschik, Gerhard Burchhardt, Katja Zocher, Sven Hammerschmidt, Juergen F.Kolb, j Klaus-DieterWeltmann, Bioelectrochemistry, Volume 112, December (2016), Pages 83-90.

<https://pubmed.ncbi.nlm.nih.gov/27293110/>

**Electric characteristic and cavitation bubble dynamics using underwater pulsed discharge**

Minglei Shan, Bingyan Chen, Cheng YAO, Qingbang Han, Changping Zhu, And Yu Yang, 17 April (2019), Hefei Institutes of Physical Science, Chinese Academy of Sciences and IOP Publishing Plasma Science and Technology, Volume 21, Number 7.

<https://iopscience.iop.org/article/10.1088/2058-6272/ab0b62>

**Experimental investigation of formation time in single-gap pseudospark discharge**

Jing Hu and Joshua L Rovey, Journal of Physics D: Applied Physics, Volume 45, Number 46, 23 October (2012).

<https://iopscience.iop.org/article/10.1088/0022-3727/45/46/465203>

### **Electrooptic measurement of 500-kV pulsed voltages**

R.D. Shah, R.J. Cliffe, I.R. Smith, B.M. Novac, P. Senior, IEEE Transactions on Plasma Science, Volume 30, Issue 5, Oct (2002). <https://ieeexplore.ieee.org/document/1178234>

### **Degradation of an azo dye Orange II using a gas phase dielectric barrier discharge reactor submerged in water**

YS Mok, JO Jo, JC Whitehead, Chemical Engineering Journal, Volume 142, Issue 1, 1 August (2008), Pages 56-64.

<https://www.sciencedirect.com/science/article/abs/pii/S1385894707007322>

### **High-Voltage Monitoring in Electrostatic Separators**

Adrian Mihalcioiu, Vasile Neamtu, Anca Stochita, Lucian Dascalescu, IEEE Transactions on Industry Applications, Volume 43, Issue 1, Jan-Feb. (2007).

<https://ieeexplore.ieee.org/document/4077203>

### **Investigation of the Effects of Gas versus Liquid Deposition in an Aerosol-Assisted Corona Deposition Process**

Liam O'Neill, P. Anthony F. Herbert, Charles Stallard, Denis P. Dowling, Plasma Processes and Polymers, Vol 7, pp 43-50, (2010).

<https://ieeexplore.ieee.org/document/4077203>

### **NO and SO<sub>2</sub> removal in non-thermal plasma reactor packed with glass beads-TiO<sub>2</sub> thin film coated by PCVD process**

A Nasonova, HC Pham, DJ Kim, KS Kim, Chemical Engineering Journal, Volume 156, Issue 3, 1 February (2010), Pages 557-561.

[https://www.researchgate.net/publication/222916871\\_NO\\_and\\_SO2\\_removal\\_in\\_non-thermal\\_plasma\\_reactor\\_packed\\_with\\_glass\\_beads-TiO2\\_thin\\_film\\_coated\\_by\\_PCVD\\_process](https://www.researchgate.net/publication/222916871_NO_and_SO2_removal_in_non-thermal_plasma_reactor_packed_with_glass_beads-TiO2_thin_film_coated_by_PCVD_process)

### **Application of dielectric barrier discharge reactor immersed in wastewater to the oxidative degradation of organic contaminant**

Y.S Mok, J.O Jo, H.J Lee, H.T Ahn, J.T Kim, Plasma Chemistry and Plasma Processing, volume 27, pages 51–64, (2007).

<https://link.springer.com/article/10.1007/s11090-006-9043-1>

### **Removal of sulfur dioxide and nitrogen oxides by using ozone injection and absorption–reduction technique**

Sun Mok Young and Heon-Ju Lee, Fuel Processing Technology, Volume 87, Issue 7, July (2006), Pages 591-597.

<https://www.sciencedirect.com/science/article/pii/S0378382005001864>

### **Temperature effect on hydrocarbon-enhanced nitric oxide conversion using a dielectric barrier discharge reactor**

V.Ravi, Young Sun Mok, B.S.Rajanikanth, Ho-Chul Kang, Fuel Processing Technology, Volume 81, Issue 3, 25 May (2003), Pages 187-199.

[https://www.researchgate.net/publication/223031374\\_Temperature\\_effect\\_on\\_hydrocarbon-enhanced\\_nitric\\_oxide\\_conversion\\_using\\_a\\_dielectric\\_barrier\\_discharge\\_reactor](https://www.researchgate.net/publication/223031374_Temperature_effect_on_hydrocarbon-enhanced_nitric_oxide_conversion_using_a_dielectric_barrier_discharge_reactor)

**A compact, nanosecond pulse generator with water as dielectric and as switch medium**

Jingdong Deng, R.H. Stark, K.H. Schoenbach, PPPS-2001, Pulsed Power Plasma Science, (2001), 28th IEEE International Conference on Plasma Science and 13th IEEE International Pulsed Power Conference, Digest of Papers (Cat. No.01CH37251).

<https://ieeexplore.ieee.org/document/1001866>

**Mechanism of Calcium Ion Precipitation from Hard Water Using Pulsed Spark Discharges**

Yong Yang, Hyoungsup Kim, Andrey Starikovskiy, Young Cho & Alexander Fridman, Plasma Chemistry and Plasma Processing, volume 31, pages 51–66, (2011).

<https://link.springer.com/article/10.1007/s11090-010-9269-9>

**Application of pulsed spark discharge for calcium carbonate precipitation in hard water**

Yong Yang, Hyoung supKim, Andrey Starikovskiy, Alexander Fridman, Young I.Cho, Water Research, Volume 44, Issue 12, June (2010), Pages 3659-3668.

<https://www.sciencedirect.com/science/article/abs/pii/S0043135410002770>

**Gaseous Electrical Discharge-Induced Degradation of Organic Compound in Wastewater: UV**

**Irradiation and Ozonation Effect** Young Sun Mok, Jin-Oh Jo, and Changsu Woo, Journal of Advanced Oxidation Technologies, Volume 10, Issue 2, (2007).

<https://www.degruyter.com/view/journals/jaots/10/2/article-p439.xml>

**Surface ionization wave in a plasma focus-like model device**

V Yordanov, A Blagoev, I Ivanova-Stanik, E M van Veldhuizen, S Nijdam, J van Dijk, and J J A M van der Mullen, Journal of Physics D: Applied Physics, Volume 41, Number 21, 15 October (2008).

<https://iopscience.iop.org/article/10.1088/0022-3727/41/21/215208>

**Abatement of nitrogen oxides in a catalytic reactor enhanced by nonthermal plasma**

**discharge** Young Sun Mok; V. Ravi; Ho-Chul Kang; B.S. Rajanikanth, IEEE Transactions on Plasma Science Volume 31, Issue 1, Feb (2003).

<https://ieeexplore.ieee.org/document/1190702>

**Dielectric Barrier Discharge Plasma-Induced Photocatalysis and Ozonation for the Treatment**

**of Wastewater** Mok, Young Sun, Jo, Jin-Oh, and Lee, Heon-Ju, 1 February (2008), Plasma Science and Technology, Volume 10, Number 1.

[https://www.researchgate.net/publication/231093287\\_Dielectric\\_Barrier\\_Discharge\\_Plasma-Induced\\_Photocatalysis\\_and\\_Ozonation\\_for\\_the\\_Treatment\\_of\\_Wastewater](https://www.researchgate.net/publication/231093287_Dielectric_Barrier_Discharge_Plasma-Induced_Photocatalysis_and_Ozonation_for_the_Treatment_of_Wastewater)

### **Cold Plasma in Modified Atmospheres for Post-harvest Treatment of Strawberries**

N. N. Misra, Tamara Moiseev, Sonal Patil, S. K. Pankaj, Paula Bourke, J. P. Mosnier, K. M. Keener & P. J. Cullen, *Food a Surface and Coatings Technology*, 7, pages 3045–3054, (2014).

<https://link.springer.com/article/10.1007/s11947-014-1356-0>

### **Control of residual stress of tetrahedral amorphous carbon thin film deposited on dielectric material by filtered cathodic vacuum arc source by using mid-frequency pulse bias voltage**

Jung-Hwan In, Young-Bok Kim, Yeon Hwang Ju, Hyeon Choi, *Surface and Coatings Technology*, Volume 349, 15 September (2018), Pages 909-916.

<https://www.sciencedirect.com/science/article/abs/pii/S0257897218305796>

### **Time Jitter Study of a Small V/n Switch**

Anders Larsson; Danny Yap; Yong Wah Lim, *IEEE Transactions on Plasma Science*, Volume 40, Issue 10, Oct. (2012).

<https://ieeexplore.ieee.org/document/6191506>

### **Observation of Propagation Phenomenon of Air Discharge Penetrating Through Insulator Barrier in Discharge Path**

N. Araoka, N Takamura, Y Sasaki, M Mizusaki, M Matsuda, T Namihira, M Hanai, *Proceedings of the 21st International Symposium on High Voltage Engineering*, pp 410-419, 31 Oct (2019).

[https://link.springer.com/chapter/10.1007/978-3-030-31680-8\\_42](https://link.springer.com/chapter/10.1007/978-3-030-31680-8_42)

### **Characterization and Statistical Analysis of Breakdown Data for a Corona-Stabilized Switch in Environmentally Friendly Gas Mixtures**

Ruairidh W. Macpherson; Mark P. Wilson; Scott J. MacGregor; Igor V. Timoshkin; Martin J. Given, *IEEE Transactions on Plasma Science*, Volume 46, Issue 10, Oct. (2018).

<https://ieeexplore.ieee.org/document/8392378>

### **Dynamic Responses of Biological Liquid to High Intensity and Sub-Microsecond Pulsed Electric Fields**

Priya R Chalise; Bucur M Novac; Ivor R Smith; Michael G Kong, *Conference Record of the 2006 Twenty-Seventh International Power Modulator Symposium*, 14-18 May (2006).

<https://ieeexplore.ieee.org/document/4216245>

### **Laser Thomson Scattering Diagnostics for Streamer Discharge in HE Gas**

K. Eguch; R. Fujita; D. Wang; K. Tomita; T. Namihira, 2019 IEEE Pulsed Power & Plasma Science (PPPS) conference, 23-29 June (2019).

<https://ieeexplore.ieee.org/document/9009628>

**Application of TiO<sub>2</sub>-Coated Alumina Beads to Dielectric Barrier Discharge-Photocatalyst Hybrid Process for NO and SO<sub>2</sub> Removals** Anna Nasonova; Hung Cuong Pham; Dong-Joo Kim; Woo-Sik Kim; Tawatchai Charinpanitkul; Kyo-Seon Kim, Journal of Nanoscience and Nanotechnology, Volume 11, Number 2, February (2011), pp. 1323-1327(5).  
<https://pubmed.ncbi.nlm.nih.gov/21456180/>

**Precision capacitor charging switching power supplies**

J. Jichetti; A. Bushnell; R. McDowell, Digest of Technical Papers, PPC-(2003), 14th IEEE International Pulsed Power Conference (IEEE Cat. No.03CH37472).  
<https://ieeexplore.ieee.org/document/1277765>

**Characterization of a Compact, Low-Cost Atmospheric-Pressure Plasma Jet Driven by a Piezoelectric Transformer  
Direct Position Control of Dielectric Barrier Discharge Filaments**

Matthew C. Paliwoda and Joshua Rovey, AIAA 2016-0197, Session: DBD Plasma Actuators I, 2 Jan (2016).  
[rc.aiaa.org/doi/abs/10.2514/6.2016-0197](http://arc.aiaa.org/doi/abs/10.2514/6.2016-0197)

**Characterisation and statistical analysis of breakdown data for a corona-stabilised switch in environmentally-friendly gas mixtures**

Macpherson, R. W., Wilson, M. P., MacGregor, S. J., Timoshkin, I. V., Given, M. J., Wang, T., (2018), IEEE Transactions on Plasma Science, ISSN 0093-3813.  
<https://ieeexplore.ieee.org/document/8392378>

**Resistance of Spark Channels**

R. Montano; M. Becerra; V. Cooray; M. Rahman; P. Liyanage, IEEE Transactions on Plasma Science, Volume 34, Issue 5, Oct. (2006).  
<https://ieeexplore.ieee.org/document/1710018>

**Polyimide Film Surface Modification by Nanosecond High Voltage Pulse Driven Electrical Discharges in Water** Camelia Miron, Camelia Hulubei, Ion Sava, Antje Quade, Anna Steuer, Klaus-Dieter Weltmann, Juergen F. Kolb, Plasma Processes and Polymers, Volume12, Issue 8, August (2015), Pages 734-745.

<https://onlinelibrary.wiley.com/doi/abs/10.1002/ppap.201400170>

**Numerical simulation of a spark channel expansion in water and its comparison with an experimental result**

V. Stelmashuk, P. Hoffer, and K. K. J. Straus, IEEE Pulsed Power & Plasma Science (PPPS), Orlando, FL, USA, pp. 1-4, (2019), doi: 10.1109/PPPS34859.2019.9009660.  
<https://ieeexplore.ieee.org/abstract/document/9009660>

**In-package atmospheric pressure cold plasma treatment of strawberries**

N.Misra, Sonal Patil, Tamara Moiseev, Paula Bourke, J.P. Mosnier, K.M. Keenera, P.J. Cullen, Journal of Food Engineering, Volume 125, March (2014), Pages 131-138.

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

<https://www.sciencedirect.com/science/article/abs/pii/S0260877413005384>

**Fundamental properties of a touchable high-power pulsed microplasma jet and its application as a desorption/ionization source for ambient mass spectrometry** Takahiro Iwai, Ken

Kakegawa, Kensuke Okumura, Mieko Kanamori-Kataoka, Hidekazu Miyahara, Yasuo Seto, Akitoshi Okino, *Journal of Mass Spectrometry*, Volume 49, Issue 6, June (2014), Pages 522-528.

<https://onlinelibrary.wiley.com/doi/abs/10.1002/jms.3368>

**Reduction of nitrogen oxides from simulated exhaust gas by using plasma-catalytic process** YS Mok, DJ Koh, DN Shin, KT Kim, *Fuel Processing Technology*, Volume 86, Issue 3, 15 December 2004, Pages 303-317, (2004).

<https://www.sciencedirect.com/science/article/pii/S037838200400089X>

**Degradation of organic contaminant by using dielectric barrier discharge reactor immersed in wastewater**

YS Mok, JO Jo, *IEEE transactions on Plasma Science*, Volume 34, Issue 6, Dec. (2006).

<https://ieeexplore.ieee.org/document/4032899>

**Improvement in selective catalytic reduction of nitrogen oxides by using dielectric barrier discharge** YS Mok, HJ Lee, M Dors, J Mizeraczyk, *Chemical Engineering Journal*, Volume 110, Issues 1-3, 1 June (2005), Pages 79-85.

<https://www.sciencedirect.com/science/article/abs/pii/S138589470500152X>

**In-situ production of ozone and ultraviolet light using a barrier discharge reactor for wastewater treatment** J.O Jo, Y.S Mok, *Journal of Zhejiang University-SCIENCE A*, volume 10, pages 1359-1366, (2009).

<https://link.springer.com/article/10.1631/jzus.A0820696>

**Degradation of a textile azo dye by pulsed arc discharge to the surface of wastewater** YS Mok, JO Jo, *Korean Journal of Chemical Engineering*, 24 (4):607-611, (2007).

[https://www.researchgate.net/publication/225573087\\_Degradation\\_of\\_a\\_textile\\_azo\\_dye\\_by\\_pulsed\\_arc\\_discharge\\_to\\_the\\_surface\\_of\\_wastewater](https://www.researchgate.net/publication/225573087_Degradation_of_a_textile_azo_dye_by_pulsed_arc_discharge_to_the_surface_of_wastewater)

**Hydrodynamic parameters of air-bubble stimulated underwater spark discharges**

Y. Sun et al., *IEEE 19th International Conference on Dielectric Liquids (ICDL)*, Manchester, (2017), pp. 1-4, doi: 10.1109/ICDL.2017.8124689.

<https://ieeexplore.ieee.org/document/8124689>

**The impact of interfaces and space charge formation on breakdown strength of epoxy resin**

I. Idrissu, S. M. Rowland, and A. Tzimas, *IEEE Conference on Electrical Insulation and Dielectric Phenomena (CEIDP)*, Des Moines, IA, (2014), pp. 90-93.

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

<https://ieeexplore.ieee.org/document/6995911>

**Characteristics of Back Corona Discharge in a Honeycomb Catalyst and Its Application for Treatment of Volatile Organic Compounds** Fada Feng, Yanyan Zheng, Xinjun Shen, Qinzhen Zheng, Shaolong Dai, Xuming Zhang, Yifan Huang, Zhen Liu, and Keping Yan, Environmental Science & Technology, (2015), 49 (11), 6831-6837.

<https://pubs.acs.org/action/showCitFormats?doi=10.1021%2Facs.est.5b00447&href=/doi/10.1021%2Facs.est.5b00447>

**Nanoscale Corona Discharge in Liquids, Enabling Nanosecond Optical Emission Spectroscopy** Staack, D., Fridman A., Gutsol, A., Gogotsi, Y., and Friedman, G., (2008), Angewandte Chemie International Edition, 47: 8020-8024, doi:10.1002/anie.200802891.

<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.200802891>

**Impulse electromagnetic interference generator**

R. Verma et al., Conference Record of the Twenty-Sixth International Power Modulator Symposium, High-Voltage Workshop., San Francisco, CA, (2004), pp. 543-546, doi: 10.1109/MODSYM.2004.1433634.

<https://ieeexplore.ieee.org/document/1433634>

**Breakdown strength and dielectric recover investigation inside a supercritical switch**

Zhang, Jin Jin, van Eijm Bert Heesch, Takao Namihira, Fjcm Frank Beckers, and Ajm Guus Pemen, (2014).

<https://www.semanticscholar.org/paper/Breakdown-strength-and-dielectric-recover-inside-a-Zhang-Heesch/c0c89486ff605376bcdf8a533fbad04214b76724>

**Miniature 100-kV explosively driven prime power sources based on transverse shock-wave depolarization of Pb(Zr<sub>0.95</sub>Ti<sub>0.05</sub>)O<sub>3</sub> ferroelectric ceramics**

S. I. Shkuratov et al., 2011 IEEE Pulsed Power Conference, Chicago, IL, (2011), pp. 536-539, doi: 10.1109/PPC.2011.6191481.

<https://ieeexplore.ieee.org/document/6191481>

**Data Transmission Using Gyrotron Radiation as a Carrier**

A. Fokin, A.Sedov, A. Tsvetkov, Institute of Applied Physics of the Russian Academy of Sciences, Nizhny Novgorod, Russia, EPJ Web of Conferences 187, 01007 (2018), 30th Joint Russian-German Meeting on ECRH and Gyrotrons, doi.org/10.1051/epjconf/201818701007.

[https://www.epj-conferences.org/articles/epjconf/pdf/2018/22/epjconf\\_rgm2018\\_01007.pdf](https://www.epj-conferences.org/articles/epjconf/pdf/2018/22/epjconf_rgm2018_01007.pdf)

**Surface flashover of oil-immersed dielectric materials in uniform and non-uniform fields**

M. P. Wilson et al., IEEE Transactions on Dielectrics and Electrical Insulation, vol. 16, no. 4, pp. 1028-1036, August (2009), doi: 10.1109/TDEI.2009.5211850.

<https://ieeexplore.ieee.org/document/5211850>

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

### **Induction Motor Performance Testing With an Inverter Power Supply: Part 2**

R. C. Zowarka, T. J. Hotz, J. R. Uglum, and H. E. Jordan, IEEE Transactions on Magnetics, vol. 43, no. 1, pp. 275-278, January, (2007), doi: 10.1109/TMAG.2006.887599.

<https://ieeexplore.ieee.org/document/4033139>

### **Polarity effects on breakdown of short gaps in a point-plane topology in air**

M. G. Hogg, I. V. Timoshkin, S. J. McGregor, M. P. Wilson, and M. J. Given, IEEE Transactions on Dielectrics and Electrical Insulation, vol. 22, no. 4, pp. 1815-1822, August (2015), doi: 10.1109/TDEI.2015.005029.

<https://ieeexplore.ieee.org/document/7179136>

### **HEAT TRANSFER ANALYSIS OF CAPILLARY DBD-SOURCE**

K. Sklias<sup>1</sup>, D. Athanasopoulos, P. Papadopoulos, P. Svarnas, K. Gazeli, And P. Vafeas  
Conference: 22nd International Conference on Gas Discharges and Their Applications, At Novi Sad, Serbia, (2018).

[https://www.researchgate.net/profile/Kyriakos\\_Sklias/publication/328223813\\_HEAT\\_TRANSFER\\_ANALYSIS\\_OF\\_CAPILLARY-DBD\\_SOURCE/links/5bbf4952a6fdccf29792be82/HEAT-TRANSFER-ANALYSIS-OF-CAPILLARY-DBD-SOURCE.pdf](https://www.researchgate.net/profile/Kyriakos_Sklias/publication/328223813_HEAT_TRANSFER_ANALYSIS_OF_CAPILLARY-DBD_SOURCE/links/5bbf4952a6fdccf29792be82/HEAT-TRANSFER-ANALYSIS-OF-CAPILLARY-DBD-SOURCE.pdf)

### **An experimental and analytical study of plasma closing switches filled with environmentally friendly gases**

C. McGarvey, I. V. Timoshkin, S. J. MacGregor, M. P. Wilson, M. J. Given, and M. A. Sinclair, IEEE Pulsed Power Conference (PPC), Austin, TX, (2015), pp. 1-6, doi: 10.1109/PPC.2015.7296988.

<https://ieeexplore.ieee.org/document/7296988>

### **Aerodynamic modification of flow over bluff objects by plasma actuation**

Sung, Y., Kim, W., Mungal, M.G. et al.. Exp Fluids 41, 479–486, (2006), doi.org/10.1007/s00348-006-0175-0.

<https://link.springer.com/article/10.1007/s00348-006-0175-0#citeas>

### **Non-thermal dielectric barrier discharge plasma induces angiogenesis through reactive oxygen species**

K. P. Arjunan and A. M. Clyne, Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Boston, MA, (2011), pp. 2447-2450, doi: 10.1109/IEMBS.2011.6090680.

<https://ieeexplore.ieee.org/document/6090680>

### **Effect of Transient Plasma on Ignition Delay Characteristics of Fuel Spray Ignited by Spark-A Review**

Ahmadi Ghadikolaie, Meisam, International Journal of Engineering and Innovative Technology (IJEIT), 3, (2014), 160-168.

[https://www.researchgate.net/publication/292388458\\_Effect\\_of\\_Transient\\_Plasma\\_on\\_Ignition\\_Delay\\_Characteristics\\_of\\_Fuel\\_Spray\\_Ignited\\_by\\_Spark-A\\_Review/citation/download](https://www.researchgate.net/publication/292388458_Effect_of_Transient_Plasma_on_Ignition_Delay_Characteristics_of_Fuel_Spray_Ignited_by_Spark-A_Review/citation/download)

### **A STUDY OF HIGH-POWER SWITCH WITH THYRISTOR FOR PULSE POWER APPLICATIONS**

## **Technical Papers Referencing North Star High Voltage Probes/Dividers**

Y. G. Son, S. D. Jang, J. S. Oh, M. H. Cho, W. Namkung Pohang, Accelerator Laboratory, Proceedings of LINAC, (2002), Gyeongju, Korea.

<https://accelconf.web.cern.ch/I02/PAPERS/MO468.PDF>

#### **Breakdown voltage estimation of a supercritical nitrogen plasma switch**

Zhang, J., Heesch, van, E. J. M., & Pemen, A. J. M., Proceedings of the 4th Euro-Asian Pulsed Power Conference and the 19th International Conference on High-Power Particle Beams (EAPPC/BEAMS2012), September 30 - October 4, (2012), Karlsruhe, Germany, (pp. 1-5).

<https://research.tue.nl/en/publications/breakdown-voltage-estimation-of-a-supercritical-nitrogen-plasma-s>

#### **Design and performance analysis of transmission line-based nanosecond pulse multiplier**

Verma, Rishi & Shyam, A. & Shah, Kunal, (2006), Sadhana, 31, 597-611, doi: 10.1007/BF02715916.

[https://www.researchgate.net/publication/226096721\\_Design\\_and\\_performance\\_analysis\\_of\\_transmission\\_line-based\\_nanosecond\\_pulse\\_multiplier/citation/download](https://www.researchgate.net/publication/226096721_Design_and_performance_analysis_of_transmission_line-based_nanosecond_pulse_multiplier/citation/download)

#### **A Study of Energy Partition During Arc Initiation**

S. G. Koutoula et al., IEEE Transactions on Plasma Science, vol. 44, no. 10, pp. 2137-2144, October, (2016), doi: 10.1109/TPS.2016.2579312.

<https://ieeexplore.ieee.org/document/7497470>

#### **Electrical, Thermal and Optical Diagnostics of an Atmospheric Plasma Jet System**

Nwankire, C.E., Law, V.J., Nindrayog, A. et al., Plasma Chem Plasma Process, 30, 537–552 (2010), doi.org/10.1007/s11090-010-9236-5.

<https://link.springer.com/article/10.1007/s11090-010-9236-5#citeas>

**Pulse Breakdown Strengths of Liquid, Gel and Solid Insulating Materials Using Closely Spaced Spherical Electrode** P.J. Leask, Proceedings of the 2nd Euro-Asian Pulsed Power Conference, Vilnius, Lithuania, September 22–26, (2008).

<http://przyrbwn.icm.edu.pl/APP/PDF/115/a115z616.pdf>

**Thermodynamical calculation of metal heating in nanosecond exploding wire and foil experiments** G. S. Sarkisova, S. E. Rosenthal, and K. W. Struve, Review of Scientific Instruments, 78, 043505, (2007), doi.org/10.1063/1.2712938.

<https://aip.scitation.org/doi/abs/10.1063/1.2712938>

#### **Nanosecond-Pulsed Uniform Dielectric-Barrier Discharge**

H. Ayan, G. Fridman, A. F. Gutsol, V. N. Vasilets, A. Fridman, and G. Friedman, IEEE Transactions on Plasma Science, vol. 36, no. 2, pp. 504-508, April (2008), doi: 10.1109/TPS.2008.917947.

<https://ieeexplore.ieee.org/abstract/document/4480825>

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Compact pulse forming line using barium titanate ceramic material**

Surender Kumar, Sharma, P. Deb, R. Shukla, T. Prabakaran, and A. Shyam, Review of Scientific Instruments, 82, 115102 (2011), doi.org/10.1063/1.3658823.

<https://aip.scitation.org/doi/abs/10.1063/1.3658823>

**Effect of Plasma Exposure on the Chemistry and Morphology of Aerosol-Assisted, Plasma-Deposited Coatings**

Twomey, Barry; Rahman, Mahfujur; Byrne, Gerry; Hynes, Alan; O'Hare, Lesley-Ann; O'Neill, Liam; Dowling, Denis, (2008), Plasma Processes and Polymers, 5, 737-744, doi: 10.1002/ppap.200800048.

[https://www.researchgate.net/publication/229891730 Effect of Plasma Exposure on the Chemistry and Morphology of Aerosol-Assisted Plasma-Deposited Coatings](https://www.researchgate.net/publication/229891730_Effect_of_Plasma_Exposure_on_the_Chemistry_and_Morphology_of_Aerosol-Assisted_Plasma-Deposited_Coatings)

**Correlation Between the Electrical and Optical Properties of an Atmospheric Pressure Plasma During Siloxane Coating Deposition**

Twomey, B., Nindrayog, A., Niemi, K. et al. Plasma Chem Plasma Process 31, 139–156 (2011), doi.org/10.1007/s11090-010-9266-z.

<https://link.springer.com/article/10.1007/s11090-010-9266-z#citeas>

**Study on Plasma Agent Effect of a Direct-Current Atmospheric Pressure Oxygen-Plasma Jet on Inactivation of E. coli Using Bacterial Mutants**

J. Li, N. Sakai, M. Watanabe, E. Hotta, and M. Wachi, IEEE Transactions on Plasma Science, vol. 41, no. 4, pp. 935-941, April (2013), doi: 10.1109/TPS.2013.2248395.

<https://ieeexplore.ieee.org/abstract/document/6476743>

**Note: Compact helical pulse forming line for the generation of longer duration rectangular pulse**

Surender Kumar Sharma, P. Deb, Archana Sharma, R. Shukla, T. Prabakaran, B. Adhikary, and A. Shyam, Review of Scientific Instruments, 83, 066103 (2012); doi.org/10.1063/1.4728206.

<https://aip.scitation.org/doi/10.1063/1.4728206>

**Note: Fast double pulse system using transmission line characteristic of the pulse forming line**

Sharma, Surender; Deb, Pankaj; Sharma, Archana; Shyam, A., (2012), The Review of Scientific Instruments, 83, 116108, doi: 10.1063/1.4769051.

[https://www.researchgate.net/publication/233837270 Note Fast double pulse system using transmission line characteristic of the pulse forming line](https://www.researchgate.net/publication/233837270_Note_Fast_double_pulse_system_using_transmission_line_characteristic_of_the_pulse_forming_line)

**Direct voltage and trapped charge effects on the protective characteristic of ZnO surge arresters**

A. Haddad et al., IEE Proceedings - Science, Measurement and Technology, vol. 142, no. 6, pp. 442-448, Nov. (1995), doi: 10.1049/ip-smt:19952137.

<https://ieeexplore.ieee.org/document/487632>

### **Pesticide degradation in water using atmospheric air cold plasma**

Sarangapani, Chaitanya; Misra, N.N.; Milosavljevic, Vladimir; Bourke, Paula; O'Regan, Finbarr; Cullen, P.J., (2016), Journal of Water Process Engineering, 9, 225-232, doi: 10.1016/j.jwpe.2016.01.003.

[https://www.researchgate.net/publication/291823445\\_Pesticide\\_degradation\\_in\\_water\\_using\\_atmospheric\\_air\\_cold\\_plasma](https://www.researchgate.net/publication/291823445_Pesticide_degradation_in_water_using_atmospheric_air_cold_plasma)

### **Post-discharge gas composition of a large-gap DBD in humid air by UV–Vis absorption spectroscopy**

T Moiseev, N N Misra, S Patil, P J Cullen, P Bourke, K M Keener, and J P Mosnier, Plasma Sources Science and Technology, Volume 23, Number 6, 20 October (2014).

<https://iopscience.iop.org/article/10.1088/0963-0252/23/6/065033/meta>

### **Factors affecting the UV emission from pulsed surface discharges**

A. Tuema, S. J. MacGregor, R. A. Fouracre, D. J. Fulker, A. J. Finlayson and P. A. Winstanley, IEEE Transactions on Plasma Science, vol. 28, no. 5, pp. 1588-1592, Oct. (2000), doi: 10.1109/27.901238.

<https://ieeexplore.ieee.org/document/901238>

### **Effect of titanium oxide nanoparticle incorporation into nm thick coatings deposited using an atmospheric pressure plasma**

Dowling P Denis, Twomey Barry, and Byrne Gerry, J Nanosci Nanotechnol, (2010), Apr; 10(4):2746-52, doi: 10.1166/jnn.2010.1432.

<https://pubmed.ncbi.nlm.nih.gov/20355495/>

### **Differences in AC and DC large-area breakdown behavior of polymer thin films**

M. Ritämäki, I. Rytöluoto, M. Niittymäki, K. Lahti, and M. Karttunen, IEEE International Conference on Dielectrics (ICD), Montpellier, (2016), pp. 1011-1014, doi:

10.1109/ICD.2016.7547789. <https://ieeexplore.ieee.org/document/7547789>

### **Surface flashover of dielectric materials used in pulsed power research**

M. P. Wilson et al., 16th IEEE International Pulsed Power Conference, Albuquerque, NM, (2007), pp. 1665-1668, doi: 10.1109/PPPS.2007.4652510.

<https://ieeexplore.ieee.org/document/4652510>

### **Effect of plasma treatment on osteoblastic adhesion over poly ( $\epsilon$ -caprolactone) scaffolds**

E. D. Yildirim, H. Ayan, V. Vasilets, A. Fridman, S. Guceri and W. Sun, IEEE 33rd Annual Northeast Bioengineering Conference, Long Island, NY, (2007), pp. 243-244, doi:

10.1109/NEBC.2007.4413368.

<https://ieeexplore.ieee.org/abstract/document/4413368/similar#similar>

### **Real-time process monitoring during the plasma treatment of carbon weave composite**

materials Law, V; Ramamoorthy, A; and Dowling, Denis, (2011), Journal of Materials Science in Engineering, 1, 164-169. <https://www.researchgate.net/publication/236005227>

[Real-time process monitoring during the plasma treatment of carbon weave composite materials](https://www.researchgate.net/publication/236005227)

### **Prospects of airflow control by a gliding arc in a static magnetic field**

Balcon, Nicolas; Benard, Nicolas; Braud, Patrick; Mizuno, A; Touchard, G; Moreau, Eric., Journal of Physics D: Applied Physics, 41, 205204, (2008), 10.1088/0022-3727/41/20/205204.

[https://www.researchgate.net/publication/231146148\\_Prospects\\_of\\_airflow\\_control\\_by\\_a\\_gliding\\_arc\\_in\\_a\\_static\\_magnetic\\_field/citation/download](https://www.researchgate.net/publication/231146148_Prospects_of_airflow_control_by_a_gliding_arc_in_a_static_magnetic_field/citation/download)

### **Evaluation of the Effect of Plasma Treatment Frequency on the Activation of Polymer Particles**

Abourayana, H.M., Milosavljević, V., Dobbyn, P. et al., Plasma Chem Plasma Process, 37, 1223–1235 (2017), doi.org/10.1007/s11090-017-9810-1.

<https://link.springer.com/article/10.1007/s11090-017-9810-1#citeas>

### **Generation of In-Package Cold Plasma and Efficacy Assessment Using Methylene Blue**

Misra, N.N., Keener, K.M., Bourke, P. et al., Plasma Chem Plasma Process 35, 1043–1056, (2015), doi: 10.1007/s11090-015-9638-5.

<https://link.springer.com/article/10.1007/s11090-015-9638-5#citeas>

### **Transportable High-Energy High-Current Inductive Storage GW Generator**

B. M. Novac et al., IEEE Transactions on Plasma Science, vol. 42, no. 10, pp. 2919–2933, Oct. (2014), doi: 10.1109/TPS.2014.2340014.

<https://ieeexplore.ieee.org/abstract/document/6871374>

### **Specifičnosti visokonaponskih visokofrekventnih merenja na elektrodnom sistemu elektrostatičkih izdvajča u termoelektranama**

Miloš R. Nedeljković and Željko V. Despotović, INFOTEH-JAHORINA, Vol. 14, March (2015).

[https://www.researchgate.net/publication/273774423\\_Specificnosti\\_visokonaponskih\\_visokofrekventnih\\_merenja\\_na\\_elektrodnom\\_sistemu\\_elektrostatičkih\\_izdvajča\\_u\\_termoelektranama](https://www.researchgate.net/publication/273774423_Specificnosti_visokonaponskih_visokofrekventnih_merenja_na_elektrodnom_sistemu_elektrostatičkih_izdvajča_u_termoelektranama)

### **Pulse-Current Sources for Plasma Accelerators**

Shurupov, Alexei; Kozlov, Alexander; Shurupov, Mikhail; Zavalova, Valentina; Zhitlukhin, Anatoly; Bakhtin, Vitalliy; Umrikhin, Nikolai; Es'kov, Alexei, (2018), Energies, 11, 3057, doi: 10.3390/en11113057.

[https://www.researchgate.net/publication/328797787\\_Pulse-Current\\_Sources\\_for\\_Plasma\\_Accelerators/citation/download](https://www.researchgate.net/publication/328797787_Pulse-Current_Sources_for_Plasma_Accelerators/citation/download)

### **Univerzalni elektronski merni modul za merenje struje i napona elektrostatičkih izdvajča**

Vukosavic, Slobodan; Despotovic, Dr Zeljko; Popov, Nikola, Energija, March, (2011), 1, 32-35.

[https://www.researchgate.net/publication/281032830\\_Univerzalni\\_elektronski\\_merni\\_modul\\_za\\_merenje\\_struje\\_i\\_napona\\_elektrostatičkih\\_izdvajča/citation/download](https://www.researchgate.net/publication/281032830_Univerzalni_elektronski_merni_modul_za_merenje_struje_i_napona_elektrostatičkih_izdvajča/citation/download)

### **Matching high voltage pulsed power technologies**

Voeten, SJ, PhD Thesis, January, (2013).

<https://pdfslide.net/documents/matching-high-voltage-pulsed-power-technologies-sj-voeten-phd-thesis.html>

## **Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Experimental investigations of pseudospark discharge and pseudospark produced intense electron beams**

Hu, Jing; PhD dissertation, Missouri State University, (2012).

[https://scholarsmine.mst.edu/doctoral\\_dissertations/33/](https://scholarsmine.mst.edu/doctoral_dissertations/33/)

**Design and Implementation of a Frequency Response Test System for Instrument Voltage Transformer Performance Studies** Zhao, Senpeng; PhD dissertation, University of Manchester, (2013).

[https://www.research.manchester.ac.uk/portal/en/theses/design-and-implementation-of-a-frequency-response-test-system-for-instrument-voltage-transformer-performance-studies\(3e65a4d8-937e-4a3d-8308-734e03f29255\).html](https://www.research.manchester.ac.uk/portal/en/theses/design-and-implementation-of-a-frequency-response-test-system-for-instrument-voltage-transformer-performance-studies(3e65a4d8-937e-4a3d-8308-734e03f29255).html)

**Pressure Field Around Underwater Negative Streamers**

P. Hoffer; K. Kolacek; P. Lukes; and V. Stelmashuk, IEEE Transactions on Plasma Science, vol. 43, no. 5, pp. 1787-1792, May (2015), doi: 10.1109/TPS.2015.2413213.

<https://ieeexplore.ieee.org/document/7073651>

**On polarity effect of underwater impulse breakdown**

X. Li, X. Chen, and J. Li, IEEE 20th International Conference on Dielectric Liquids (ICDL), Roma, Italy, (2019), pp. 1-3, doi: 10.1109/ICDL.2019.8796567.

<https://ieeexplore.ieee.org/abstract/document/8796567>

**Nanosecond high-voltage pulse generator using a spiral Blumlein PFL for electromagnetic interference test**

S. W. Lim, J. S. Kim, C. H. Cho, Y. B. Kim, S. Katsuki and Y. S. Jin, 19th IEEE Pulsed Power Conference (PPC), San Francisco, CA, (2013), pp. 1-4, doi: 10.1109/PPC.2013.6627432.

<https://ieeexplore.ieee.org/document/6627432>

**Impulse breakdown of liquid water-influence of pulse duration and gap distance**

X. Li, Y. Liu, L. Tao, X. Chen, and J. Li, IEEE Transactions on Dielectrics and Electrical Insulation, vol. 26, no. 4, pp. 1154-1162, Aug. (2019), doi: 10.1109/TDEI.2019.007918.

<https://ieeexplore.ieee.org/document/8785919>

**Study on Inactivation Mechanism of an Atmospheric DBD Plasma Jet using Escherichia coli Mutants** Jia Li, Natsuko Sakai, Masato Watanabe, Eiki Hotta, Masaaki Wachi, (2013), Volume 133, Issue 4, Pages 192-197, DOI: doi.org/10.1541/ieejfms.133.192.

[https://www.jstage.jst.go.jp/article/ieejfms/133/4/133\\_192/article](https://www.jstage.jst.go.jp/article/ieejfms/133/4/133_192/article)

### **Silicone rubber insulators for polluted environments part 1: enhanced artificial pollution tests**

P. Charalampidis, M. Albano, H. Griffiths, A. Haddad, and R. T. Waters, IEEE Transactions on Dielectrics and Electrical Insulation, vol. 21, no. 2, pp. 740-748, April (2014), doi: 10.1109/TDEI.2013.004015.

<https://ieeexplore.ieee.org/document/6783068>

### **Electrical and optical characteristics of water under high electric stress**

S. Katsuki, R. P. Joshi, M. Laroussi, F. Leipold, and K. H. Schoenbach, Conference Record of the Twenty-Fifth International Power Modulator Symposium, 2002 and 2002 High-Voltage Workshop., Hollywood, CA, USA, (2002), pp. 467-470, doi: 10.1109/MODSYM.2002.1189516.

<https://ieeexplore.ieee.org/document/1189516>

### **Resonant Tesla driven repetitive x-ray emission source**

Verma, Rishi; Mishra, Ekansh; Sagar, Karuna; Meena, Manraj; and Shyam, Anurag; Bhabha Atomic Research Centre, Visakhapatnam, India, Jun (2015); 20 p.

[https://inis.iaea.org/search/search.aspx?orig\\_q=RN:46076130](https://inis.iaea.org/search/search.aspx?orig_q=RN:46076130)

### **OPTIMIZING SWAP FOR DIRECTED ENERGY–DETECTION OF BURIED CONDUCTORS WITH LOW-ENERGY HIGH-VOLTAGE PULSES**

Pouncey, Jon C., University of New Mexico, April 17 (2017).

[https://digitalrepository.unm.edu/ece\\_etds/487/](https://digitalrepository.unm.edu/ece_etds/487/)

### **High-Voltage, Multiphasic, nanosecond pulses to modulate cellular responses**

H. A. Ryan, S. Hirakawa, E. Yang, C. Zhou, and S. Xiao, IEEE Transactions on Biomedical Circuits and Systems, vol. 12, no. 2, pp. 338-350, April (2018), doi: 10.1109/TBCAS.2017.2786586.

<https://ieeexplore.ieee.org/document/8293833>

### **Commercial-scale pulsed electric field processing of orange juice**

S. Min; Z.T. Jin; S.K. Min; H. Yeom; Q.H. Zhang; 20 July (2006)

doi.org/10.1111/j.1365-2621.2003.tb09637.x.

<https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1365-2621.2003.tb09637.x>

### **Breakdown voltage of thermoplastics with clay nanometer-sized fillers**

S. S. Brandstetter, L. F. Drummy, J. C. Horwath, D. L. Schweickart, and R. A. Vaia, IEEE International Power Modulators and High-Voltage Conference, Las Vegas, NV, (2008), pp. 287-290, doi: 10.1109/IPMC.2008.4743638.

<https://ieeexplore.ieee.org/document/4743638>

### **Effects of commercial-scale pulsed electric field processing on flavor and color of tomato juice**

S. Min and Q.H. Zhang, 20 July (2006),

doi.org/10.1111/j.1365-2621.2003.tb12298.x.

<https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1365-2621.2003.tb12298.x>

## **Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Effects of pulsed electric field processing on microbial survival, quality change and nutritional characteristics of blueberries** Tony Z, Jin Yuanshan, Yu Joshua, and B Gurtler, LWT, Volume 77, April (2017), Pages 517-524.

<https://www.sciencedirect.com/science/article/pii/S0023643816307861>

**Evaluation of Microbial Stability, Bioactive Compounds, Physicochemical Properties, and Consumer Acceptance of Pomegranate Juice Processed in a Commercial Scale Pulsed Electric Field System** Guo, M., Jin, T.Z., Geveke, D.J. et al., Food Bioprocess Technol 7, 2112–2120 (2014). doi.org/10.1007/s11947-013-1185-6.

<https://link.springer.com/article/10.1007/s11947-013-1185-6#citeas>

**Biochemical degradation and physical migration of polyphenolic compounds in osmotic dehydrated blueberries with pulsed electric field and thermal pretreatments**

Yuanshan Yu , Tony Z Jin , Xuetong Fan , Jijun Wu,  
Food Chem, (2018) Jan 15, 239:1219-1225, doi: 10.1016.

<https://pubmed.ncbi.nlm.nih.gov/28873543/>

**Osmotic dehydration of blueberries pretreated with pulsed electric fields: Effects on dehydration kinetics, and microbiological and nutritional qualities**

Yuanshan Yu, Tony Z. Jin, Xuetong Fan, & Yujuan Xu, (2017), Drying Technology, 35:13, 1543-1551, DOI: 10.1080/07373937.2016.1260583.

<https://www.tandfonline.com/doi/abs/10.1080/07373937.2016.1260583>

**Commercial scale pulsed electric field processing of tomato juice**

Seacheol, Min; Jin, Tony Z.; Zhang, Q. Howard,  
Journal of Agricultural and Food Chemistry, (2003), 51, (11), 3338-3344,  
DOI: 10.1021/jf0260444.

<https://pubs.acs.org/doi/abs/10.1021/jf0260444#>

**Upscaling from benchtop processing to industrial scale production: More factors to be considered for pulsed electric field food processing**

Tony Z.Jin, Mingming Guo, Howard Q. Zhang; Journal of Food Engineering, Volume 146, February (2015), Pages 72-80,  
doi.org/10.1016/j.jfoodeng.2014.08.020.

<https://www.sciencedirect.com/science/article/abs/pii/S0260877414003586>

**Combination of pulsed electric field processing and antimicrobial bottle for extending microbiological shelf-life of pomegranate juice**

Tony Z.Jin, Mingming Guo, Ruijin Yang, Innovative Food Science & Emerging Technologies, Volume 26, December (2014), Pages 153-158,  
doi.org/10.1016/j.ifset.2014.07.011.

<https://www.sciencedirect.com/science/article/pii/S1466856414001301>

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

### **Validation of a pulsed electric field process to pasteurize strawberry purée**

David J. Geveke, Isolde Aubuchon, Howard Q. Zhang, Glenn Boyd, Joseph E. Sites, Andrew B.W. Bigley, Journal of Food Engineering, Volume 166, December (2015), Pages 384-389, doi.org/10.1016/j.jfoodeng.2015.05.008.

<https://www.sciencedirect.com/science/article/abs/pii/S0260877415002198>

### **Quality of applesauces processed by pulsed electric fields and HTST pasteurisation**

ZT Jin, HQ Zhang, SQ Li, M Kim, CP Dunne, T Yang, AO Wright, J Venter-Gains, 13 March (2009), doi.org/10.1111/j.1365-2621.2009.01912.x.

<https://ifst.onlinelibrary.wiley.com/doi/abs/10.1111/j.1365-2621.2009.01912.x>

### **Ceramic-Polymer Composite for High Energy Density Capacitors**

J. Borchardt, J. Alexander, and K. Slenes, IEEE 34th International Conference on Plasma Science (ICOPS), Albuquerque, NM, (2007), pp. 268-268, doi: 10.1109/PPPS.2007.4345574.

<https://ieeexplore.ieee.org/document/4345574>

### **A 40 KV, 3.1 $\Omega$ PFN for the Main Injector Abort Kicker**

C.C. Jensen, May (1997), Conf.Proc. C, 17th IEEE Particle Accelerator Conference (PAC 97): Accelerator Science, Technology, and Applications, 1284-1286, FERMILAB-CONF-97-482-AD.

<https://inspirehep.net/literature/459982>

### **A 40 kV, 3.1 $\Omega$ PFN for the Main Injector abort kicker**

C. C. Jensen, Proceedings of the 1997 Particle Accelerator Conference, Vancouver, BC, Canada, (1997), pp. 1284-1286, vol.1, doi: 10.1109/PAC.1997.750001.

<https://ieeexplore.ieee.org/document/750001>

### **Ceramic-polymer composite capacitors for compact pulsed power applications**

K. Slenes, N. Berg, and R. De La Fuente, IEEE International Power Modulator and High Voltage Conference (IPMHVC), Santa Fe, NM, (2014), pp. 145-148, doi: 10.1109/IPMHVC.2014.7287229.

<https://ieeexplore.ieee.org/document/7287229>

### **Food processing by pulsed electric fields: treatment delivery, inactivation level, and regulatory aspects**

M.M.Góngora-Nieto, D.R.Sepúlveda, P.Pedrow, G.V.Barbosa-Cánovas, B.G.Swanson, LWT - Food Science and Technology, Volume 35, Issue 5, August (2002), Pages 375-388, doi.org/10.1006/fstl.2001.0880.

<https://www.sciencedirect.com/science/article/pii/S0023643801908801>

### **Pulsed high voltage measurements with compact coaxial capacitive sensors**

Verma, Rishi; Mishra, Ekansh; Sagar, Karuna; Meena, Manraj; Shyam, Anurag, (BARC--(2015)/E/003). India.

[https://inis.iaea.org/search/search.aspx?orig\\_q=RN:46076129](https://inis.iaea.org/search/search.aspx?orig_q=RN:46076129)

## **Technical Papers Referencing North Star High Voltage Probes/Dividers**

### **Optical Diagnostics for high power pulsed underwater electrical discharge characterization**

J Deroy et al., (2014), J. Phys.: Conf. Ser. 500 142010.

<https://iopscience.iop.org/article/10.1088/1742-6596/500/14/142010>

### **Single phase axial mixing in rotating disc contactors**

J.C. Godfrey; D.Houlton; K.R.M.Ramlochan; M.J.Slater,

Chemical Engineering Research and Design,

Volume 79, Issue 2, March (2001), Pages 156-162,

doi.org/10.1205/02638760151095971.

<https://www.sciencedirect.com/science/article/abs/pii/S026387620172031X>

### **UV Induced Insulator Flashover**

J. B. Javedani, T. L. Houck, B. T. Kelly, D. A. Lahowe, M. D. Shirk, and D. A. Goerz, IEEE International Power Modulators and High-Voltage Conference, Las Vegas, NV, (2008), pp. 33-36, doi: 10.1109/IPMC.2008.4743569.

<https://ieeexplore.ieee.org/document/4743569>

### **A simple 150 kV solid state pulse generator for 1.2/50 usec testing with enhanced transformer drive**

R. J. Adler, 19th IEEE Pulsed Power Conference (PPC), San Francisco, CA, (2013), pp. 1-2, doi: 10.1109/PPC.2013.6627695.

<https://ieeexplore.ieee.org/document/6627695>

### **Optimization and Analysis on Ion Mobility Spectrometer Based on a Laser Ionization Source**

R. Ji and X. Wang, 2011 International Conference on Control, Automation and Systems Engineering (CASE), Singapore, (2011), pp. 1-3, doi: 10.1109/ICCASE.2011.5997530.

<https://ieeexplore.ieee.org/abstract/document/5997530>

### **A sealed-off double-gap pseudospark switch and its performance analysis**

RP Lamba, BL Meena, and R Prakash, Plasma Sources Science and Technology, Volume 27, Number 3, 28 February (2018).

<https://iopscience.iop.org/article/10.1088/1361-6595/aaab80/meta>

### **High-voltage pulsed generator for dynamic fragmentation of rocks**

B M Kovalchuk, A V Kharlov, V A Vizir, V V Kumpyak, V B Zorin, and V N Kiselev, Rev Sci Instrum, (2010), Oct; 81(10):103506, doi: 10.1063/1.3497307.

<https://pubmed.ncbi.nlm.nih.gov/21034090/>

### **A parametric SPICE model for the simulation of spark gap switches**

J Cameron Pouncy and Jane M. Lehr, Review of Scientific Instruments, Volume 91, Issue 3, (2020), DOI: 10.1063/1.5142006.

<https://aip.scitation.org/doi/abs/10.1063/1.5142006?journalCode=rsi>

## **Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Study on the High-Voltage Solid-State Pulsed-Power Modulator for Parallel Reactor Operation**  
S. Song, H. Jo and H. Ryoo, IEEE Transactions on Plasma Science, vol. 47, no. 10, pp. 4495-4499, Oct. (2019), doi: 10.1109/TPS.2019.2917189.  
<https://ieeexplore.ieee.org/document/8726374>

**Effect of plasma exposure on the chemistry and morphology of aerosol-assisted, plasma-deposited coatings** Twomey, Barry; Rahman, Mahfujur; Byrne, Gerry; Hynes, Alan; O'Hare, Lesley-Ann; O'Neill, Liam; Dowling, Denis; Plasma Processes and Polymers, 5, 737-744, (2008), 10.1002/ppap.200800048.  
[https://www.researchgate.net/publication/229891730\\_Effect\\_of\\_Plasma\\_Exposure\\_on\\_the\\_Chemistry\\_and\\_Morphology\\_of\\_Aerosol-Assisted\\_Plasma-Deposited\\_Coatings](https://www.researchgate.net/publication/229891730_Effect_of_Plasma_Exposure_on_the_Chemistry_and_Morphology_of_Aerosol-Assisted_Plasma-Deposited_Coatings)

**Suppression of self-pulsing regime of direct current driven microplasma discharges**  
Rajib Mahamud and Tanvir Farouk, Appl. Phys. Lett., 108, (2016), doi: 10.1063/1.4950730 .  
<https://aip.scitation.org/doi/abs/10.1063/1.4950730>

**Effect of Dielectric Barrier Discharge Plasma on the Attachment and Proliferation of Osteoblasts Cultured over Poly( $\epsilon$ -caprolactone) Scaffolds**  
Yildirim-Ayan, Eda; Ayan, Halim; Vasilets, Victor; Fridman, Alexander; Guceri, Selcuk; Sun, Wei, Plasma Processes and Polymers, 5, 58-66, (2008), 10.1002/ppap.200700041.  
[https://www.researchgate.net/publication/229867105\\_Effect\\_of\\_Dielectric\\_Barrier\\_Discharge\\_Plasma\\_on\\_the\\_Attachment\\_and\\_Proliferation\\_of\\_Osteoblasts\\_Cultured\\_over\\_Poly-epsilon-caprolactone\\_Scaffolds](https://www.researchgate.net/publication/229867105_Effect_of_Dielectric_Barrier_Discharge_Plasma_on_the_Attachment_and_Proliferation_of_Osteoblasts_Cultured_over_Poly-epsilon-caprolactone_Scaffolds)

**Atmospheric pressure dielectric barrier discharge for siloxane reformation**  
Shamia Hoque et al., J. Phys. D: Appl. Phys., 53 015202, (2020),  
doi: 10.1088/1361-6463/ab4689.  
<https://iopscience.iop.org/article/10.1088/1361-6463/ab4689>

**Comparing deposition properties in an atmospheric pressure plasma system operating in uniform and nonuniform modes** B. Twomey et al., IEEE Transactions on Plasma Science, vol. 37, no. 6, pp. 961-969, June (2009), doi: 10.1109/TPS.2009.2015226.  
<https://ieeexplore.ieee.org/document/4914827>

**A testbed for high voltage, high bandwidth characterization of nonlinear dielectrics**  
F. J. Zutavern, G. L. Brennecka, S. F. Glover, G. E. Pena, G. J. Denison, and J. M. Rudys, Abstracts IEEE International Conference on Plasma Science (ICOPS), San Francisco, CA, pp. 1, (2013), doi: 10.1109/PLASMA.2013.6634793.  
<https://ieeexplore.ieee.org/document/6634793>

### **Fast magnetization of amorphous metallic cores**

J. M. Taccetti, R. McCrady, and C. R. Rose, 2017 IEEE 21st International Conference on Pulsed Power (PPC), Brighton, pp. 1-4, (2017), doi: 10.1109/PPC.2017.8291303.

<https://ieeexplore.ieee.org/document/8291303>

### **Dynamic characterization of next generation medium voltage (3.3 kv, 10 kv) silicon carbide power modules**

J. Hayes et al., PCIM Europe 2017; International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management, Nuremberg, Germany, pp. 1-7, (2017).

<https://ieeexplore.ieee.org/document/7990668>

### **Humic acid and trihalomethane breakdown with potential by-product formations for atmospheric air plasma water treatment**

Chaitanya Sarangapani, Peng Lu, Patrice Behan, Paula Bourke, P.J. Cullen, Journal of Industrial and Engineering Chemistry, Volume 59, 25, Pages 350-361, March (2018).

<https://www.sciencedirect.com/science/article/abs/pii/S1226086X17305828>

### **Minimizing Magnitude of Current Spikes Resulting from Argon Non-Thermal Dielectric Barrier Discharge Jets** Reid, Jack Burnett (2015). Undergraduate Research Scholars Program.

<https://oaktrust.library.tamu.edu/handle/1969.1/164477>

### **Breakdown Characteristics of Plasma Closing Switches filled with different gases**

Mcgarvey, Caron; Timoshkin, I.V.; MacGregor, S.J.; Wilson, Mark; Given, Martin; Sinclair, Mark, 20th International Conference on Gas Discharges and their Applications, University of Strathclyde, Glasgow, G1 1XU, United Kingdom, (2014), 10.13140/2.1.4798.6887.

[https://gd2014.sciencesconf.org/27162/GD\\_2014\\_CaronMcGarvey\\_27162.pdf](https://gd2014.sciencesconf.org/27162/GD_2014_CaronMcGarvey_27162.pdf)

### **Magnetic field mapping of a field reversed configuration test article**

Ryan A. Pahl, Warner C. Meeks, and Joshua L. Rovey, Missouri University of Science and Technology, Rolla, MO, 47th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, 31 July-03 August (2011).

<https://arc.aiaa.org/doi/10.2514/6.2011-5656>

### **Landfill waste water treatment by application of pulsed high voltage**

Takigawa, Akio, (2015), International Journal of Geomate. 10.21660/2015.17.4241.

[https://www.researchgate.net/publication/307678170\\_LANDFILL\\_WASTE\\_WARTER\\_TREATMENT\\_BY\\_APPLICATION\\_OF\\_PULSED\\_HIGH\\_VOLTAGE](https://www.researchgate.net/publication/307678170_LANDFILL_WASTE_WARTER_TREATMENT_BY_APPLICATION_OF_PULSED_HIGH_VOLTAGE)

**A comparison between gas and atomized liquid precursor states in the deposition of functional coatings by pin corona plasma** Herbert, Peter; O'Neill, Liam; Jaroszyńska-Wolińska, Justyna; Stallard, Charlie; Ramamoorthy, Amsarani; Dowling, Denis, *Plasma Processes and Polymers*, 8, 230-238, (2011), 10.1002/ppap.201000119.

<https://onlinelibrary.wiley.com/doi/abs/10.1002/ppap.201000119>

**Solid-state circuit breakers for medium voltage DC power**

M. Kempkes, I. Roth, and M. Gaudreau, *IEEE Electric Ship Technologies Symposium*, Alexandria, VA, pp. 254-257, (2011), doi: 10.1109/ESTS.2011.5770877.

<https://ieeexplore.ieee.org/document/5770877>

**Design and performance of a 300 kJ pulsed power module for ETC application**

Yun-Sik Jin, et al., *IEEE Transactions on Magnetics*, vol. 37, no. 1, pp. 165-168, Jan. (2001), doi: 10.1109/20.911813. <https://ieeexplore.ieee.org/document/911813>

**Development of real-time non-invasive performance analysis tools for atmospheric pressure plasma system monitoring** Tynan, J.; Law, V.; Twomey, Barry; Hynes Alan; Daniels, Stephen;

Byrne, G.; Dowling, Denis, *ICPIG Conference*, Cancun, Mexico, (2009).

[https://www.researchgate.net/publication/237573544\\_Development\\_of\\_real-time\\_non-invasive\\_performance\\_analysis\\_tools\\_for\\_atmospheric\\_pressure\\_plasma\\_system\\_monitoring](https://www.researchgate.net/publication/237573544_Development_of_real-time_non-invasive_performance_analysis_tools_for_atmospheric_pressure_plasma_system_monitoring)

**Real-time parametric analysis during the plasma treatment of carbon composite materials**

Law, V; Ramamoorthy, A; and Dowling, Denis, *Real-time process monitoring during the plasma treatment of carbon weave composite materials*, *Journal of Materials Science in Engineering*, 1, 164-169, (2011).

[https://www.researchgate.net/publication/236005227\\_Real-time\\_process\\_monitoring\\_during\\_the\\_plasma\\_treatment\\_of\\_carbon\\_weave\\_composite\\_materials](https://www.researchgate.net/publication/236005227_Real-time_process_monitoring_during_the_plasma_treatment_of_carbon_weave_composite_materials)

**Effects of Fuel Mixture Properties on Nanosecond Pulsed High Frequency Discharge Ignition**

Tichenor, Nathan; Leiweke, Robert; Ombrello, Timothy, *AIAA 2019-0461*

Session: Plasma-Assisted Combustion and Ignition I, (2018),

doi.org/10.2514/6.2019-0461. <https://arc.aiaa.org/doi/abs/10.2514/6.2019-0461>

**Generation of Active Species in a Large Atmospheric-Pressure Plasma Jet**

F. T. O'Neill et al., *IEEE Transactions on Plasma Science*, vol. 40, no. 11, pp. 2994-3002, Nov. (2012), doi: 10.1109/TPS.2012.2214403.

<https://ieeexplore.ieee.org/document/6301740>

**Impulse and step voltage measurements on materials with non-linear VI characteristic**

B. Sonerud et al., *2012 Annual Report Conference on Electrical Insulation and Dielectric Phenomena*, Montreal, QC, pp. 207-210, (2012), doi: 10.1109/CEIDP.2012.6378757.

<https://ieeexplore.ieee.org/abstract/document/6378757>

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Reaction kinetics of phenols and p-nitrophenols in flowing aerated aqueous solutions generated by a discharge plasma jet** Bingyan, Chen et al., Journal of Hazardous Materials Volume 363, Pages 55-63, 5 February (2019), doi: 10.1016/j.jhazmat.2018.09.051.  
<https://www.sciencedirect.com/science/article/abs/pii/S0304389418308458>

**Flexible test bed for MVDC and HFAC electric ship power system architectures for Navy ships** J. D. Herbst; A. L. Gattozzi; A. Ouroua; F. M. Uriarte; IEEE Electric Ship Technologies Symposium, Alexandria, VA, pp. 66-71, (2011), doi: 10.1109/ESTS.2011.5770843.  
<https://ieeexplore.ieee.org/document/5770843>

**Analysis of geometrical design parameters for high-energy and high-current-density pseudospark-sourced electron beam emission** N. Kumar, D. K. Pal, R. P. Lamba, U. N. Pal, and R. Prakash, IEEE Transactions on Electron Devices, vol. 64, no. 6, pp. 2688-2693, June (2017), doi: 10.1109/TED.2017.2696826.  
<https://ieeexplore.ieee.org/document/7917277>

**Heating effect of dielectric barrier discharges for direct medical treatment** H. Ayan et al., IEEE Transactions on Plasma Science, vol. 37, no. 1, pp., 113-120, Jan. (2009), doi: 10.1109/TPS.2008.2006899.  
<https://ieeexplore.ieee.org/document/4689362>

**The Study on the Electrical Characteristics of the Pulse Generator adopted Cascading Technique** Joung, Jong-Han & Kim, Moon-Hwan, Journal of Power Electronics, 4(2), January (2004).  
[https://www.researchgate.net/publication/263636937\\_The\\_Study\\_on\\_the\\_Electrical\\_Characteristics\\_of\\_the\\_Pulse\\_Generator\\_adopted\\_Cascading\\_Technique](https://www.researchgate.net/publication/263636937_The_Study_on_the_Electrical_Characteristics_of_the_Pulse_Generator_adopted_Cascading_Technique)

**High voltage generation with transversely shock compressed ferroelectrics: Thickness dependent law for breakdown field** S. I. Shkuratov, J. Baird, V. G. Antipov, E. F. Talantsev, A. H. Stults, and L. L. Altgilbers, IEEE Pulsed Power Conference (PPC), Austin, TX, pp. 1-6, (2015), doi: 10.1109/PPC.2015.7296898.  
<https://ieeexplore.ieee.org/document/7296898>

**On the reliable probing of discrete plasma bullet propagation** Svarnas, Panagiotis; Gazeli, Kristaq; Gkelios, Alkis; Amanatides, E; Mataras, Dimitrios; Measurement Science and Technology, 29, (2018), 10.1088/1361-6501/aaa9b0.  
[https://www.researchgate.net/publication/322650341\\_On\\_the\\_reliable\\_probing\\_of\\_discrete\\_plasma\\_bullet\\_propagation](https://www.researchgate.net/publication/322650341_On_the_reliable_probing_of_discrete_plasma_bullet_propagation)

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

**High voltage generation with transversely shock-compressed ferroelectrics: Breakdown field on thickness dependence** S. I. Shkuratov et al., IEEE Transactions on Plasma Science, vol. 44, no. 10, pp. 1919-1927, Oct. (2016), doi: 10.1109/TPS.2016.2553000.

<https://ieeexplore.ieee.org/document/7463044>

**Effect of gas type on high repetition rate performance of a triggered, corona stabilised switch** J. M. Koutsoubis and S. J. MacGregor, IEEE Transactions on Dielectrics and Electrical Insulation, vol. 10, no. 2, pp. 245-255, April (2003), doi: 10.1109/TDEI.2003.1194106.

<https://ieeexplore.ieee.org/document/1194106>

**Study on a planar multi-gap multi-channel gas switch for linear transformer drivers**

Xiao, L., Deng, X., Ma, J. et al., J Fusion Energ, 34, 629–635, (2015), doi: 10.1007/s10894-015-9855-1. <https://link.springer.com/article/10.1007/s10894-015-9855-1>

**The Effects of Electrode Size and Configuration on Plasma Actuator Thrust and Effectiveness at Low Pressure** P. D. Friz and J. L. Rovey, International Journal of Flow Control, vol. 6, no. 1-2, pp. 75-85, Sep (2014), DOI: 10.1260/1756-8250.6.2.75.

[https://scholarsmine.mst.edu/cgi/viewcontent.cgi?article=5277&context=mec\\_aereng\\_facwork](https://scholarsmine.mst.edu/cgi/viewcontent.cgi?article=5277&context=mec_aereng_facwork)

**Floating electrode dielectric barrier discharge plasma in air promoting apoptotic behavior in melanoma skin cancer cell lines** Fridman, G., Shereshevsky, A., Jost, M.M. et al., Plasma Chem Plasma Process 27, 163–176, (2007), DOI: 10.1007/s11090-007-9048-4.

<https://link.springer.com/article/10.1007/s11090-007-9048-4#citeas>

**Surface discharges along polymeric insulating materials**

M. P. Wilson et al., 2008 17th International Conference on Gas Discharges and Their Applications, Cardiff, pp. 229-232, (2008).

<https://ieeexplore.ieee.org/document/5379262>

**Compact pulsed-power driver for double pulse effect studies in nanosecond laser ablation**

S. K. Sharma, P. Deb, R. Kumar, A. Sharma, and A. Shyam, IEEE Transactions on Plasma Science, vol. 41, no. 10, pp. 2609-2613, Oct. (2013), doi: 10.1109/TPS.2013.2254725.

<https://ieeexplore.ieee.org/document/6504535>

**Mechanisms of depolarization of  $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$  AND  $\text{Pb}(\text{Zr}_{0.95}\text{Ti}_{0.05})\text{O}_3$  ferroelectrics under transverse shock compression** Shkuratov, Sergey; Baird, Jason; Antipov, Vladimir; Talantsev, Evgeny; Ryul, Hwan; Valadez, Juan; Lynch, Christopher; Stults, Allen; Altgilbers, Larry, 1-6, (2015), 10.1109/PPC.2015.7296899,

[https://www.researchgate.net/publication/308818518\\_Mechanisms\\_of\\_depolarization\\_of\\_PbZr052Ti048O3\\_AND\\_PbZr095Ti005O3\\_ferroelectrics\\_under\\_transverse\\_shock\\_compression](https://www.researchgate.net/publication/308818518_Mechanisms_of_depolarization_of_PbZr052Ti048O3_AND_PbZr095Ti005O3_ferroelectrics_under_transverse_shock_compression)

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Impulse-driven surface flashover of polymeric dielectric materials immersed in insulating oil**  
M. P. Wilson, M. J. Given, I. V. Timoshkin, S. J. MacGregor, M. A. Sinclair, and K. J. Thomas, 44th International Universities Power Engineering Conference (UPEC), Glasgow, pp. 1-5, (2009).  
<https://ieeexplore.ieee.org/document/5429554>

**Digital control of a rapid capacitor charger with sensor-less voltage feedback**  
M. G. Giesselmann and A. Bilbao, 2014 IEEE International Power Modulator and High Voltage Conference (IPMHVC), Santa Fe, NM, pp. 640-643, (2014), doi: 10.1109/IPMHVC.2014.7287357.  
<https://ieeexplore.ieee.org/document/7287357>

**Interaction of sub-microsecond pulsed electric field with bacterial cells**  
P. R. Chalise, S. Perni, G. Shama, B. M. Novac, I. R. Smith, and M. G. Kong, Conference Record of the Twenty-Seventh International Power Modulator Symposium, Arlington, VA, pp. 562-565, (2006), doi: 10.1109/MODSYM.2006.365313.  
<https://ieeexplore.ieee.org/document/4216265>

**Comparison of laboratory and industrial scale atmospheric pressure plasma processing systems using real-time non-invasive performance analysis tools**  
Tylan, J; Law, V; Twomey, Barry; Hynes, Alan; Daniels, Stephen; Byrne, G; Dowling, Denis; (2009).  
[https://www.researchgate.net/publication/275272468\\_Comparison\\_of\\_laboratory\\_and\\_industrial\\_scale\\_atmospheric\\_pressure\\_plasma\\_processing\\_systems\\_using\\_real-time\\_non-invasive\\_performance\\_analysis\\_tools](https://www.researchgate.net/publication/275272468_Comparison_of_laboratory_and_industrial_scale_atmospheric_pressure_plasma_processing_systems_using_real-time_non-invasive_performance_analysis_tools)

**Improving Plasma Actuator Thrust at Low Pressure Through Geometric Variation**  
Paul D. Friz and Joshua Rovey, 52nd Aerospace Sciences Meeting, 13-17 January (2014). National Harbor, Maryland, doi: /10.2514/6.2014-0146.  
<https://arc.aiaa.org/doi/10.2514/6.2014-0146>

**Nanosecond-pulsed dielectric barrier discharges in Kr/Cl<sub>2</sub> for production of ultraviolet radiation** Gregório, José; Aubert, Xavier; Hagelaar, G.; Puech, V.; Pitchford, L; Plasma Sources Science and Technology, 23, 1, (2014), DOI: 1088/0963-0252/23/1/015005.  
[https://www.researchgate.net/publication/261018318\\_Nanosecond-pulsed\\_dielectric\\_barrier\\_discharges\\_in\\_KrCl2\\_for\\_production\\_of\\_ultraviolet\\_radiation](https://www.researchgate.net/publication/261018318_Nanosecond-pulsed_dielectric_barrier_discharges_in_KrCl2_for_production_of_ultraviolet_radiation)

**Dielectric performance of HFO-gas mixtures**  
Y. Yao et al., IEEE 21st International Conference on Pulsed Power (PPC), Brighton, pp. 1-6, (2017), doi: 10.1109/PPC.2017.8291272.  
<https://ieeexplore.ieee.org/document/8291272>

**Ignition improvement of premixed methane-air mixtures by distributed spark discharge**  
Yu, S., Xie, K., Tan, Q., Wang, M. et al., SAE Technical Paper, 2015-01-1889, (2015), doi: 10.4271/2015-01-1889.  
<https://www.sae.org/publications/technical-papers/content/2015-01-1889/>

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

### **Separation control using vectoring plasma actuators**

Shawn Fleming, Michael Bolitho, and Jamey Jacob, Session: WIG-3: Joint PDL/WIG/FD/TP Plasma Actuator Session II, Orlando Florida, 25 Jun (2012), doi: 10.2514/6.2010-468.

<https://arc.aiaa.org/doi/abs/10.2514/6.2010-468>

### **Characterization of a compact, low-cost atmospheric-pressure plasma jet driven by a piezoelectric transformer**

M. J. Johnson, D. R. Boris, T. B. Petrova, and S. G. Walton, IEEE Transactions on Plasma Science, vol. 47, no. 1, pp. 434-444, Jan. (2019), doi: 10.1109/TPS.2018.2870345. <https://ieeexplore.ieee.org/document/8478224>

### **Shock waves generated by an electrical discharge on composite electrode immersed in water with different conductivities**

V. Stelmashuk and P. Hoffer, IEEE Transactions on Plasma Science, vol. 40, no. 7, pp. 1907-1912, July (2012), doi: 10.1109/TPS.2012.2197638.

<https://ieeexplore.ieee.org/document/6205646>

### **Electrical and hydrodynamic characterization of a high current pulsed arc**

R Sousa Martins et al., J. Phys. D: Appl. Phys. 49, (2016).

<https://iopscience.iop.org/article/10.1088/0022-3727/49/18/185204>

### **Distributed electrical discharge to improve the ignition of premixed quiescent and turbulent mixtures**

Yu, S., Wang, M., and Zhen, M., SAE Technical Paper 2016-01-0706, (2016), doi.org/10.4271/2016-01-0706.

<https://www.sae.org/publications/technical-papers/content/2016-01-0706/>

### **Nonthermal Plasma-Enhanced Catalytic Removal of Nitrogen Oxides over V<sub>2</sub>O<sub>5</sub>/TiO<sub>2</sub> and Cr<sub>2</sub>O<sub>3</sub>/TiO<sub>2</sub>**

Young Sun Mok; Dong Jun Koh; Kyong Tae Kim; and In-Sik Nam, Industrial & Engineering Chemistry Research, 42 (13), 2960-2967, (2003),

DOI: 10.1021/ie0208873. <https://pubs.acs.org/doi/10.1021/ie0208873#>

### **Comparison of direct and indirect effects of non-thermal atmospheric-pressure plasma on bacteria**

G. Fridman, A. Fridman, A. Gutsol, V. Vasilets, and G. Friedman, IEEE 34th International Conference on Plasma Science (ICOPS), Albuquerque, NM, pp. 322-322, (2007), doi:

10.1109/PPPS.2007.4345628.

<https://ieeexplore.ieee.org/document/4345628>

### **The effect of an electromagnetic peening process on metal properties**

A. Chazottes-Leconte et al., IEEE International Conference on Industrial Technology (ICIT), Lyon, pp. 859-863, (2018), doi: 10.1109/ICIT.2018.8352290.

<https://ieeexplore.ieee.org/document/8352290>

### **Plasma Deposition of Biomolecules for Enhanced Biomedical Applications**

O'Neill, Liam; Twomey, Barry; Dobbyn Peter; O'Donoghue, John, MRS Proceedings, 1723, (2015), DOI: 10.1557/opl.2015.22.

[https://www.researchgate.net/publication/273495242\\_Plasma\\_Deposition\\_of\\_Biomolecules\\_f\\_or\\_Enhanced\\_Biomedical\\_Applications](https://www.researchgate.net/publication/273495242_Plasma_Deposition_of_Biomolecules_f_or_Enhanced_Biomedical_Applications)

### **Optimization of atmospheric air plasma for degradation of organic dyes in wastewater**

Chaitanya Sarangapani; Y. Dixit; Vladimir Milosavljevic; Paula Bourke; Carl Sullivan; P.J. Cullen, Water Sci Technol, 75 (1), 207–219, (2017),

<https://doi.org/10.2166/wst.2016.471>. <https://pubmed.ncbi.nlm.nih.gov/28067661/>

### **A 80 kV gas switch triggered by a 17 J fiber-optic laser**

Zhiguo Wang et al., Review of Scientific Instruments, 91, 056104 (2020), doi.org/10.1063/1.5141924.

<https://aip.scitation.org/doi/10.1063/1.5141924>

### **High power ultrasound impulses induced by wire-guided spark discharges in water**

I. V. Timoshkin, S. J. MacGregor, M. J. Given, and R. A. Fouracre, IEEE 34th International Conference on Plasma Science (ICOPS), Albuquerque, NM, pp. 145-145, (2007), doi: 10.1109/PPPS.2007.4345451.

<https://ieeexplore.ieee.org/document/4345451>

### **Note: Miniature 120-KV Autonomous Generator Based on Transverse Shock-Wave Depolarization of Pb (Zr<sub>0.52</sub>Ti<sub>0.48</sub>) O<sub>3</sub> Ferroelectrics**

Shkuratov, Sergey; Baird, Jason; Talantsev, Evgeny, The Review of Scientific Instruments, 82, (2011), 086107, DOI: 10.1063/1.3625276.

[https://www.researchgate.net/publication/51622724\\_Note\\_Miniature\\_120-kV\\_autonomous\\_generator\\_based\\_on\\_transverse\\_shock-wave\\_depolarization\\_of\\_PbZr052Ti048O-3\\_ferroelectrics](https://www.researchgate.net/publication/51622724_Note_Miniature_120-kV_autonomous_generator_based_on_transverse_shock-wave_depolarization_of_PbZr052Ti048O-3_ferroelectrics)

### **Temperature-programmed plasma surface reaction: an approach to determine plasma-catalytic performance**

Parastaev, Alexander; Hoeben, Wilfred; Heesch, Bert; Kosinov, Nikolay; Hensen, Emiel, Applied Catalysis B: Environmental, 239, (2018), DOI: 10.1016/j.apcatb.2018.08.011.

[https://www.researchgate.net/publication/326832494\\_Temperature-programmed\\_plasma\\_surface\\_reaction\\_An\\_approach\\_to\\_determine\\_plasma-catalytic\\_performance](https://www.researchgate.net/publication/326832494_Temperature-programmed_plasma_surface_reaction_An_approach_to_determine_plasma-catalytic_performance)

### **100 kV high frequency transformer/rectifier package with bipolar voltage output**

M. Giesselmann, T. Vollmer, and W. Carey, 2013 Abstracts IEEE International Conference on Plasma Science (ICOPS), San Francisco, CA, pp. 1-1, (2013), doi:10.1109/PLASMA.2013.6633266.

<https://ieeexplore.ieee.org/document/6633266>

## **Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Evaluation of real-time non-invasive diagnostic tools for the monitoring of a pilot scale atmospheric pressure plasma system** Tynan, J; Law, V; Twomey, Barry; Hynes, Alan; Daniels, Stephen; Byrne, G; Dowling, Denis, Measurement Science and Technology, 20, (2009), 115703, DOI: 10.1088/0957-0233/20/11/115703.

<https://www.researchgate.net/publication/231070311> Evaluation of real-time non-invasive diagnostic tools for the monitoring of a pilot scale atmospheric pressure plasma system

**Degradation of aqueous Rhodamine B by plasma generated along the water surface and its enhancement using nanocrystalline Fe-, Mn-, and Ce-doped TiO<sub>2</sub> films**

Chen, Yongduo; Li, Yang; Zhu Anna; Huang, Yifan; Liu, Zhen; Yan, Keping, Environmental Science and Pollution Research International, 21, (2014), DOI: 10.1007/s11356-014-2982-9.

<https://www.researchgate.net/publication/262538872> Degradation of aqueous Rhodamine B by plasma generated along the water surface and its enhancement using nanocrystalline Fe- Mn- and Ce-doped TiO<sub>2</sub> films

**Catalyst-packed non-thermal plasma reactor for removal of nitrogen oxides**

Ravi, V; Mok, Young Sun; BS, Rajanikanth; Kang, Ho-Chul, Plasma Science and Technology, 5, 1603, (2006), DOI: 10.1088/1009-0630/5/1/002.

<https://www.researchgate.net/publication/231135615> Catalyst-Packed Non-Thermal Plasma Reactor for Removal of Nitrogen Oxides

**Penetration of gas discharge through the gas–liquid interface into the bulk volume of conductive aqueous solution** P. Hoffer, K. Kolacek, V. Stelmashuk, and P. Lukes, IEEE

Transactions on Plasma Science, vol. 43, no. 11, pp. 3868-3875, Nov. (2015), doi: 10.1109/TPS.2015.2477562. <https://ieeexplore.ieee.org/document/7279179>

**Temperature dependence of Kerr constant for water at 658 nm and for pulsed intense electric fields** B. M. Novac et al., IEEE Transactions on Plasma Science, vol. 44, no. 6, pp. 963-967, June (2016), doi: 10.1109/TPS.2016.2558470. <https://ieeexplore.ieee.org/document/7468578>

**Miniature 100-kV explosive-driven prime power sources based on transverse shock-wave depolarization of PZT 95/5 ferroelectric ceramics** S. I. Shkuratov et al., IEEE Transactions on Plasma Science, vol. 40, no. 10, pp. 2512-2516, Oct. (2012), doi: 10.1109/TPS.2012.2202249. <https://ieeexplore.ieee.org/document/6230659>

**Electrode erosion and lifetime performance of a triggered corona-stabilized switch in SF<sub>6</sub> at a repetition rate of 1 kHz** J. M. Koutsoubis, K. Thoma, and S. J. Macgregor, IEEE Transactions on Dielectrics and Electrical Insulation, vol. 23, no. 4, pp. 1985-1995, August (2016), doi: 10.1109/TDEI.2016.7556470. <https://ieeexplore.ieee.org/document/7556470>

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Treatment of dyeing wastewater by using positive pulsed corona discharge to water surface**  
Mok, Young Sun; Ahn, Hyun; and Kim, Joeng, Plasma Science and Technology, 9, 71, (2007), DOI: 10.1088/1009-0630/9/1/15.

<https://www.researchgate.net/publication/231045064> Treatment of Dyeing Wastewater by Using Positive Pulsed Corona Discharge to Water Surface

**The effect of high-power capacitive spark discharge on the ignition and flame propagation in a lean and diluted cylinder charge**

Yu, Shui; Xie, Kelvin; Yu, Xiao; Han, Xiaoye; Li, Liguang; Liu, Mengzhu; Tjong, Jimi; Zheng, Ming, Conference: SAE World Congress and Exhibition, (2016), 10.4271/2016-01-0707.

<https://www.researchgate.net/publication/299639864> The Effect of High-Power Capacitive Spark Discharge on the Ignition and Flame Propagation in a Lean and Diluted Cylinder Charge

**Development of a substrate-invariant 2-D array of nanosecond-pulsed streamer discharges**

Burnette, Matthew and Staack, David, Plasma Research Express, Volume 2, Issue 1, id.015001, March (2020), DOI: 10.1088/2516-1067/ab640f

<https://iopscience.iop.org/article/10.1088/2516-1067/ab640f>

**Microsecond Electrical Discharge in Water in Plate-to-Plate Configuration With Nitrogen Bubble Injection**

V. Stelmashuk, IEEE Transactions on Plasma Science, vol. 44, no. 4, pp. 702-707, April (2016), doi: 10.1109/TPS.2016.2529852.

<https://ieeexplore.ieee.org/document/7422129>

**Studies on nitrogen oxides removal using plasma assisted catalytic reactor**

Ravi, V; Young Sun, Mok; BS, Rajanikanth; Ho-Chul, Kang, Plasma Science and Technology, 5 (6), pp. 2057-2062, (2003).

<http://eprints.iisc.ac.in/10675/>

**HEAT TRANSFER ANALYSIS OF CAPILLARY DBD SOURCE**

Sklias, Kyriakos; Athanasopoulos, Dimitrios; Papadopoulos, P.; Svarnas, P; Gazeli, Kristaq; Vafeas, P., 22nd International Conference on Gas Discharges and Their Applications, Novi Sad, Serbia, (2018).

<https://www.researchgate.net/publication/328223813> HEAT TRANSFER ANALYSIS OF CAPILLARY-DBD SOURCE

**A HIGH-VOLTAGE MONITORING SYSTEM EMPLOYED FOR EVALUATING THE METAL CONTENT OF GRANULAR MIXTURES PROCESSED IN ELECTROSTATIC SEPARATOR**

Mihalcioiu, Adrian; Neamtu, Vasile; Stochita, Anca; Dascalescu, L., IEEE Transactions on Industry Applications, 43(1):224-231, February (2007), DOI: 10.1109/TIA.2006.887315.

<https://www.researchgate.net/publication/3172251> High-Voltage Monitoring in Electrostatic Separators

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

### **Role of oxygen in the plasma catalytic removal of NO<sub>x</sub>**

MOK YOUNG SUN et. al, Jeju 690-756, VIVECHANIJR, Vol.1, (2010).

[https://www.researchgate.net/profile/Young\\_Sun\\_Mok/publication/228886530\\_Role\\_of\\_Oxygen\\_in\\_the\\_Plasma\\_Catalytic\\_Removal\\_of\\_NOx/links/554c980a0cf29752ee7f121a/Role-of-Oxygen-in-the-Plasma-Catalytic-Removal-of-NOx.pdf](https://www.researchgate.net/profile/Young_Sun_Mok/publication/228886530_Role_of_Oxygen_in_the_Plasma_Catalytic_Removal_of_NOx/links/554c980a0cf29752ee7f121a/Role-of-Oxygen-in-the-Plasma-Catalytic-Removal-of-NOx.pdf)

### **Comparison of pilot and industrial scale atmospheric pressure glow discharge systems including a novel electro-acoustic technique for process monitoring**

Tynan, J; Law, V; Ward, P; Hynes, Alan; Cullen, J; Byrne, G; Daniels, Stephen; Dowling, Denis, Plasma Sources Science and Technology, 19, 015015, (2009), DOI: 10.1088/0963-0252/19/1/015015.

[https://www.researchgate.net/publication/230939597\\_Comparison\\_of\\_pilot\\_and\\_industrial\\_scale\\_atmospheric\\_pressure\\_glow\\_discharge\\_systems\\_including\\_a\\_novel\\_electro-acoustic\\_technique\\_for\\_process\\_monitoring](https://www.researchgate.net/publication/230939597_Comparison_of_pilot_and_industrial_scale_atmospheric_pressure_glow_discharge_systems_including_a_novel_electro-acoustic_technique_for_process_monitoring)

### **Time-resolved processes in a pulsed electrical discharge in water generated with shock wave assistance in a plate-to-plate configuration**

Stelmashuk, Vitaliy, Journal of Physics D Applied Physics, 47, (2014), DOI: 10.1088/0022-3727/47/49/495204.

[https://www.researchgate.net/publication/270579450\\_Time-resolved\\_processes\\_in\\_a\\_pulsed\\_electrical\\_discharge\\_in\\_water\\_generated\\_with\\_shock\\_wave\\_assistance\\_in\\_a\\_plate-to-plate\\_configuration](https://www.researchgate.net/publication/270579450_Time-resolved_processes_in_a_pulsed_electrical_discharge_in_water_generated_with_shock_wave_assistance_in_a_plate-to-plate_configuration)

### **Miniature dielectric barrier discharge nonthermal plasma induces apoptosis in lung cancer cells and inhibits cell migration**

Karki, Surya; Yildirim-Ayan, Eda; Eisenmann, Kathryn; Ayan, Halim, BioMed Research International, 1-12., (2017), DOI: 10.1155/2017/8058307.

<https://www.hindawi.com/journals/bmri/2017/8058307/>

### **Investigation of streamer propagation along insulating surfaces**

Pritchard, L.S. & Allen, N.L., IEEE Transactions on Dielectrics and Electrical Insulation, 9(3): 371-380, July (2002), DOI: 10.1109/TDEI.2002.1007699.

[https://www.researchgate.net/publication/3340161\\_Streamers\\_propagation\\_along\\_profiled\\_insulator\\_surfaces](https://www.researchgate.net/publication/3340161_Streamers_propagation_along_profiled_insulator_surfaces)

### **Experimental investigations of high voltage pulsed pseudospark discharge and intense electron beams**

Hu, Jing and Rovey, Joshua, 50th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition, (2012), DOI: 10.2514/6.2012-789.

[https://www.researchgate.net/publication/271375359\\_Experimental\\_Investigations\\_of\\_High\\_Voltage\\_Pulsed\\_Pseudospark\\_Discharge\\_and\\_Intense\\_Electron\\_Beams](https://www.researchgate.net/publication/271375359_Experimental_Investigations_of_High_Voltage_Pulsed_Pseudospark_Discharge_and_Intense_Electron_Beams)

### **Plasmaa tuottavan järjestelmän sähköisen toiminnan optimointi**

Antila, Olli-Pekka, (2014).

[https://www.theseus.fi/bitstream/handle/10024/72616/Antila\\_Olli-Pekka.pdf?sequence=1](https://www.theseus.fi/bitstream/handle/10024/72616/Antila_Olli-Pekka.pdf?sequence=1)

### **A 10 kHz Sub-microsecond High-voltage Pulse Generator Using SI Thyristor for Micro-plasma Jets Generation**

Li, Jia; Sakai, Natsuko; Watanabe, Masato; Hotta, Eiki, Ieee Transactions on Fundamentals and Materials, 130, 573-578, (2010), DOI: 10.1541/ieejfms.130.573.

[https://www.researchgate.net/publication/250006396\\_A\\_10\\_kHz\\_Submicrosecond\\_High-voltage\\_Pulse\\_Generator\\_using\\_SI\\_Thyristor\\_for\\_Microplasma\\_Jets\\_Generation](https://www.researchgate.net/publication/250006396_A_10_kHz_Submicrosecond_High-voltage_Pulse_Generator_using_SI_Thyristor_for_Microplasma_Jets_Generation)

### **Nano-Second Dielectric Barrier Discharge for Direct Medical Applications**

Gutsol, Alexander; Ayan, Halim; Fridman, Greg; Fridman, Alexander; Friedman, Gary, NATO Science for Peace and Security Series A: Chemistry and Biology, January (2008), 10.1007/978-1-4020-8439-3\_19. [https://www.researchgate.net/publication/268334437\\_Nano-Second\\_Dielectric\\_Barrier\\_Discharge\\_for\\_Direct\\_Medical\\_Applications](https://www.researchgate.net/publication/268334437_Nano-Second_Dielectric_Barrier_Discharge_for_Direct_Medical_Applications)

### **Burning velocity measurement of lean methane-air flames in a new nanosecond DBD microplasma burner platform**

Elkholy, Ahmed; Shoshyn, Y.; Nijdam, Sander; van Oijen, Jeroen; Veldhuizen, E.; Ebert, Ute; Goey, Philip, Experimental Thermal and Fluid Science, 95, January (2018), 10.1016/j.expthermflusci.2018.01.011.

[https://www.researchgate.net/publication/322408359\\_Burning\\_Velocity\\_Measurement\\_of\\_Lean\\_Methane-Air\\_Flames\\_in\\_a\\_New\\_Nanosecond\\_DBD\\_Microplasma\\_Burner\\_Platform](https://www.researchgate.net/publication/322408359_Burning_Velocity_Measurement_of_Lean_Methane-Air_Flames_in_a_New_Nanosecond_DBD_Microplasma_Burner_Platform)

### **Experimental study of a long-living plasmoid using high-speed filming**

V. Stelmashuk and P. Hoffer, IEEE Transactions on Plasma Science, vol. 45, no. 12, pp. 3160-3165, Dec. (2017), doi: 10.1109/TPS.2017.2770224.

<https://ieeexplore.ieee.org/abstract/document/8119298>

### **Corrigendum: Comparison of three dielectric barrier discharges regarding their physical characteristics and influence on the adhesion properties of maple, high density fiberboard and wood plastic composite**

Peters, Frauke et al., Journal of Physics D: Applied Physics. 51, (2018), 10.1088/1361-6463/aab378.

[https://www.researchgate.net/publication/323524946\\_Corrigendum\\_Comparison\\_of\\_three\\_dielectric\\_barrier\\_discharges\\_regarding\\_their\\_physical\\_characteristics\\_and\\_influence\\_on\\_the\\_adhesion\\_properties\\_of\\_maple\\_high\\_density\\_fiberboard\\_and\\_wood\\_plastic\\_composite](https://www.researchgate.net/publication/323524946_Corrigendum_Comparison_of_three_dielectric_barrier_discharges_regarding_their_physical_characteristics_and_influence_on_the_adhesion_properties_of_maple_high_density_fiberboard_and_wood_plastic_composite)

### **Design and Performance of a Compact Marx Generator for Two-Electrode Gas Switch Used in ICF Power Conditioning System**

Chen, Li et al., Journal of Fusion Energy, 35, September (2015), DOI: 10.1007/s10894-015-9986-4.

[https://www.researchgate.net/publication/283903791\\_Design\\_and\\_Performance\\_of\\_a\\_Compact\\_Marx\\_Generator\\_for\\_Two-Electrode\\_Gas\\_Switch\\_Used\\_in\\_ICF\\_Power\\_Conditioning\\_System](https://www.researchgate.net/publication/283903791_Design_and_Performance_of_a_Compact_Marx_Generator_for_Two-Electrode_Gas_Switch_Used_in_ICF_Power_Conditioning_System)

## **Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Spectroscopic characterization of a low-temperature plasma ambient ionization probe operated with helium/nitrogen plasma gas mixtures**

Kuklya, Andriy et al., Journal of Analytical Atomic Spectrometry, 31, 1574-1581, (2016), 10.1039/C6JA00148C.

[https://www.researchgate.net/publication/304013853\\_Spectroscopic\\_characterization\\_of\\_a\\_low-temperature\\_plasma\\_ambient\\_ionization\\_probe\\_operated\\_with\\_heliumnitrogen\\_plasma\\_gas\\_mixtures](https://www.researchgate.net/publication/304013853_Spectroscopic_characterization_of_a_low-temperature_plasma_ambient_ionization_probe_operated_with_heliumnitrogen_plasma_gas_mixtures)

**Fast transient radiated and conducted electromagnetic interference measurement within power system substations**

C. S. Barrack et al., Eleventh International Symposium on High Voltage Engineering, London, UK, pp. 343-346, vol.1, (1999), doi: 10.1049/cp:19990577.

<https://ieeexplore.ieee.org/document/820657>

**Combined desulphurization and denitrification using dielectric barrier discharge and wet reduction technique**

Mok, Young Sun., Journal of Chemical Engineering of Japan - J CHEM ENG JPN, 39, 366-372, (2006), 10.1252/jcej.39.366.

[https://www.researchgate.net/publication/239269535\\_Combined\\_Desulphurization\\_and\\_Denitrication\\_Using\\_Dielectric\\_Barrier\\_Discharge\\_and\\_Wet\\_Reduction\\_Technique](https://www.researchgate.net/publication/239269535_Combined_Desulphurization_and_Denitrication_Using_Dielectric_Barrier_Discharge_and_Wet_Reduction_Technique)

**Experimental Study of Spark Channel Expansion in Water**

V. Stelmashuk, P. Hoffer, K. Kolacek, and J. Straus, IEEE Transactions on Plasma Science, vol. 48, no. 2, pp. 491-499, Feb. (2020), doi: 10.1109/TPS.2019.2963536.

<https://ieeexplore.ieee.org/document/8961206>

**Enhanced shock wave generation via pre-breakdown acceleration using water electrolysis in negative streamer pulsed spark discharges**

Lee, Kern; Chung, Kyoung-Jae; Hwang, Yong-seok, Applied Physics Letters, 112 (13), (2018), DOI: 10.1063/1.5021365.

[https://www.researchgate.net/publication/324049550\\_Enhanced\\_shock\\_wave\\_generation\\_via\\_pre-breakdown\\_acceleration\\_using\\_water\\_electrolysis\\_in\\_negative\\_streamer\\_pulsed\\_spark\\_discharges](https://www.researchgate.net/publication/324049550_Enhanced_shock_wave_generation_via_pre-breakdown_acceleration_using_water_electrolysis_in_negative_streamer_pulsed_spark_discharges)

**Inactivation of *Escherichia coli* O157:H7 and Aerobic Microorganisms in Romaine Lettuce Packaged in a Commercial Polyethylene Terephthalate Container Using Atmospheric Cold Plasma**

Min, Sea Cheol et al., Journal of Food Protection, 80 (1), 35-43, (2017), DOI: 10.4315/0362-028X.JFP-16-148.

[https://www.researchgate.net/publication/312014524\\_Inactivation\\_of\\_Escherichia\\_coli\\_O157\\_H7\\_and\\_Aerobic\\_Microorganisms\\_in\\_Romaine\\_Lettuce\\_Packaged\\_in\\_a\\_Commercial\\_Polyethylene\\_Terephthalate\\_Container\\_Using\\_Atmospheric\\_Cold\\_Plasma](https://www.researchgate.net/publication/312014524_Inactivation_of_Escherichia_coli_O157_H7_and_Aerobic_Microorganisms_in_Romaine_Lettuce_Packaged_in_a_Commercial_Polyethylene_Terephthalate_Container_Using_Atmospheric_Cold_Plasma)

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Application of TiO<sub>2</sub> photocatalysts to NO and SO<sub>2</sub> removal in the dielectric barrier discharge process** Nasonova, Anna et al., Journal of The Korean Physical Society, 54 (3), (2009), DOI: 10.3938/jkps.54.1042.

<https://www.researchgate.net/publication/243586553> Application of TiO<sub>2</sub> Photocatalysts to NO and SO<sub>2</sub> Removal in the Dielectric Barrier Discharge Process

**Direct and indirect applications of dielectric barrier discharge plasma to catalytic reduction of nitrogen oxides from exhaust gas** Mok, Young Sun., Plasma Science and Technology, 8 (2), (2006), DOI: 10.1088/1009-0630/8/2/18.

<https://www.researchgate.net/publication/231024750> Direct and Indirect Applications of Dielectric Barrier Discharge Plasma to Catalytic Reduction of Nitrogen Oxides from Exhaust Gas

**Cold plasma bullet influence on the water contact angle of human skin surface**

Athanasopoulos, Dimitrios; Svarnas, P.; Gerakis, Alexandros, Journal of Electrostatics, 102, (2019), DOI: 10.1016/j.elstat.2019.103378.

<https://www.researchgate.net/publication/336965629> Cold plasma bullet influence on the water contact angle of human skin surface

**Biogas combustion with various oxidizers in a nanosecond DBD microplasma burner**

Paulauskas, Rolandas et al., Experimental Thermal and Fluid Science, 118, May (2020), 10.1016/j.expthermflusci.2020.110166.

<https://www.researchgate.net/publication/341128716> Biogas combustion with various oxidizers in a nanosecond DBD microplasma burner

**100-kV high voltage power supply with bipolar voltage output and adaptive digital control**

M. G. Giesselmann, T. T.; Vollmer; W. J. Carey, IEEE Transactions on Plasma Science, vol. 42, no. 10, pp. 2913-2918, Oct. (2014), doi: 10.1109/TPS.2014.2326838.

<https://ieeexplore.ieee.org/document/6828765>

**A Compact high-power pulsed corona source for treatment of pollutants in heterogeneous media**

A. Pokryvailo; M. Wolf; Y. Yankelevich; E. Abramzon; and A. Welleman, IEEE Pulsed Power Conference, Monterey, CA, pp. 1188-1191, (2005), doi: 10.1109/PPC.2005.300550.

<https://ieeexplore.ieee.org/document/4084436>

**Ultrastructural changes in hepatocellular carcinoma cells induced by exponential pulses of nanosecond duration delivered via a transmission line** Yin, Shengyong et al.,

Bioelectrochemistry, 135, (2020), DOI: 10.1016/j.bioelechem, May (2020).107548.

<https://www.researchgate.net/publication/341141766> Ultrastructural Changes in Hepatocellular Carcinoma Cells Induced by Exponential Pulses of Nanosecond Duration Delivered via a Transmission Line

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Analysis of the efficiency of single-spark and multi-spark ignition systems for gas engines**

Abramchuk, F.I.; Kabonov, A.N.; Shvydkiy, D.V., Automobile Transport, (2014).

<https://cyberleninka.ru/article/n/analiz-effektivnosti-odnoiskrovoy-i-mnogoiskrovoy-sistem-zazhiganiya-gazovyyh-dvigatelye>

**Behaviour of Trichloroethylene Decomposition in a Plasma-Catalytic Combined Process**

Young Sun Mok, Plasma Science and Technology, Volume 8, Number 6, (2006).

<https://iopscience.iop.org/article/10.1088/1009-0630/8/6/08>

**Development of a High-Efficiency Decomposition Technology for Volatile Chemical Warfare**

**Agent Sarin Using Dielectric Barrier Discharge** Iwai, T., et al., Plasma Chem Plasma Process, 40, 907-920, (2020), doi.org/10.1007/s11090-020-10057-3.

<https://link.springer.com/article/10.1007/s11090-020-10057-3#citeas>

**Studies on a non-thermal pulsed corona plasma between two parallel-plate electrodes in**

**water** M M Sein, et al., Journal of Physics D: Applied Physics, Volume 45, Number 22, (2012).

<https://iopscience.iop.org/article/10.1088/0022-3727/45/22/225203/meta>

**Oxidation of NO to NO<sub>2</sub> using the ozonization method for the improvement of selective**

**catalytic reduction** Mok, Young Sun, Journal of Chemical Engineering of Japan, 37, 1337-1344, (2004), DOI: 10.1252/jcej.37.1337.

[https://www.researchgate.net/publication/244737394\\_Oxidation\\_of\\_NO\\_to\\_NO2\\_Using\\_the\\_Ozonization\\_Method\\_for\\_the\\_Improvement\\_of\\_Selective\\_Catalytic\\_Reduction](https://www.researchgate.net/publication/244737394_Oxidation_of_NO_to_NO2_Using_the_Ozonization_Method_for_the_Improvement_of_Selective_Catalytic_Reduction)

**Test bed for time jitter studies of laser-triggered gas-discharge switches** A. Larsson; D. Yap; and

Y. W. Lim, IEEE Pulsed Power Conference, Chicago, IL, pp.760-765, (2011), doi:

10.1109/PPC.2011.6191507. <https://ieeexplore.ieee.org/document/6191507>

**Laser triggering of spark gap switches**

A. Larsson; D. Yap; J. Au; and T. E. Carlsson, IEEE Transactions on Plasma Science, vol. 42, no. 10, pp. 2943-2947, Oct. (2014), doi: 10.1109/TPS.2013.2297161.

<https://ieeexplore.ieee.org/document/6828794?denied>

**Removal of CaCO<sub>3</sub> scales on a filter membrane using plasma discharge in water**

Yang, Yong; Gutsol, Alexander; Fridman, Alexander; Cho, Young, International Journal of Heat and Mass Transfer, 52, 4901-4906, (2009), 10.1016/j.ijheatmasstransfer.2009.05.025.

[https://www.researchgate.net/publication/239350882\\_Removal\\_of\\_CaCO\\_3\\_scales\\_on\\_a\\_filter\\_membrane\\_using\\_plasma\\_discharge\\_in\\_water](https://www.researchgate.net/publication/239350882_Removal_of_CaCO_3_scales_on_a_filter_membrane_using_plasma_discharge_in_water)

**Purification of dyeing wastewater by using electrical discharge plasma**

Mok, Young Sun, Environmental Engineering and Management Journal, 5 (4), 675-684, (2006).

[https://www.researchgate.net/publication/322775140\\_Purification\\_of\\_dyeing\\_wastewater\\_by\\_using\\_electrical\\_discharge\\_plasma](https://www.researchgate.net/publication/322775140_Purification_of_dyeing_wastewater_by_using_electrical_discharge_plasma)

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

### **Non-invasive pulsed electric field food processing is a reality**

B. M. Novac et al., 19th IEEE Pulsed Power Conference (PPC), San Francisco, CA, (2013), pp. 1-6, doi: 10.1109/PPC.2013.6627659.

<https://ieeexplore.ieee.org/document/6627659>

### **Study on the performance of high-voltage trigger generators in pulsed power conditioning system**

Y. Liu et al., IEEE Transactions on Plasma Science, vol. 42, no. 11, pp. 3614-3622, Nov. (2014), doi: 10.1109/TPS.2014.2359683.

<https://ieeexplore.ieee.org/document/6918473>

### **Control of scale formation using high voltage impulse**

Yang, Seon-Hee & Chang, In-Soung, Journal of the Korea Academia-Industrial cooperation Society, 16, 2301-2307, (2015), 10.5762/KAIS.2015.16.3.2301.

[https://www.researchgate.net/publication/281421911\\_Control\\_of\\_scale\\_formation\\_using\\_high\\_voltage\\_impulse](https://www.researchgate.net/publication/281421911_Control_of_scale_formation_using_high_voltage_impulse)

<https://www.koreascience.or.kr/article/CFKO201531751955530.pdf>

### **Study of the fuel efficiency of a passenger car when powered by gasoline and liquefied petroleum gas**

Manko, I. V., Science-education, production, economy: materials of the 12th International Scientific and Technical Conference. T. 2. - Minsk: BNTU, S. 59-60, (2014).

<https://rep.bntu.by/handle/data/11849>

### **Determination of the Kerr constant of water at 658 nm for pulsed intense electric fields**

B. M. Novac et al., IEEE Transactions on Plasma Science, vol. 40, no. 10, pp. 2480-2490, Oct. (2012), doi: 10.1109/TPS.2012.2188909.

<https://ieeexplore.ieee.org/document/6178015>

### **Energizing a Long Nanosecond Pulsed Corona Reactor: Electrical Characterization**

F. J. C. M. Beckers, et al., IEEE Transactions on Plasma Science, vol. 48, no. 2, pp. 500-511, Feb. (2020), doi: 10.1109/TPS.2020.2966039.

<https://ieeexplore.ieee.org/abstract/document/8976251>

### **A Study on Calcium Ion Reduction in Power Plant Water using High Voltage Impulse**

Kim, TaeHui; Chang, In-Soung; Jung, Jae-Hwan; Hong, Woong; Lee, June-Ho, The Transactions of The Korean Institute of Electrical Engineers, 66, 545-550, (2017), DOI: 10.5370/KIEE.2017.66.3.545.

[https://www.researchgate.net/publication/316884633\\_A\\_Study\\_on\\_Calcium\\_Ion\\_Reduction\\_in\\_Power\\_Plant\\_Water\\_using\\_High\\_Voltage\\_Impulse](https://www.researchgate.net/publication/316884633_A_Study_on_Calcium_Ion_Reduction_in_Power_Plant_Water_using_High_Voltage_Impulse)

### **Volumetric plasma source development and characterization**

Crain, Marlon D; Maron, Yitzhak; Oliver, Bryan Velten; Starbird, Robert L; Johnston, Mark D; Hahn, Kelly Denise; Mehlhorn, Thomas Alan; Droemer, Darryl W., Sandia National Laboratories, Albuquerque, New Mexico, (2008).

[https://www.academia.edu/30405601/Volumetric\\_plasma\\_source\\_development\\_and\\_characterization](https://www.academia.edu/30405601/Volumetric_plasma_source_development_and_characterization)

### **Characterisation and Evaluation of Shockwave Generation in Water Conditions for Coal Fracturing**

Ren, Fei; Ge, Lei; Stelmashuk, Vitaliy; Rufford, Thomas; Xing, Huilin; Rudolph, V., Journal of Natural Gas Science and Engineering, 66, (2019), DOI: 10.1016/j.jngse.2019.04.005.

[https://www.researchgate.net/publication/332326446\\_Characterisation\\_and\\_Evaluation\\_of\\_Shockwave\\_Generation\\_in\\_Water\\_Conditions\\_for\\_Coal\\_Fracturing](https://www.researchgate.net/publication/332326446_Characterisation_and_Evaluation_of_Shockwave_Generation_in_Water_Conditions_for_Coal_Fracturing)

### **Reduction of nitrogen oxides by ozonization-catalysis hybrid process**

Mok, Young Sun & Nam, In-Sik, Korean Journal of Chemical Engineering, 21, 976-982, (2004), DOI: 10.1007/BF02705580.

[https://www.researchgate.net/publication/225452687\\_Reduction\\_of\\_nitrogen\\_oxides\\_by\\_ozonization-catalysis\\_hybrid\\_process](https://www.researchgate.net/publication/225452687_Reduction_of_nitrogen_oxides_by_ozonization-catalysis_hybrid_process)

### **Low-temperature plasma ionization differential ion mobility spectrometry**

Jafari, Mohammad, Analytical chemistry, 83, 797-803, (2010), DOI: 10.1021/ac1022937.

[https://www.researchgate.net/publication/49715864\\_Low-Temperature\\_Plasma\\_Ionization\\_Ion\\_Mobility\\_Spectrometry](https://www.researchgate.net/publication/49715864_Low-Temperature_Plasma_Ionization_Ion_Mobility_Spectrometry)

### **Implementation of Pulsed Power Diagnostics on Explosive Flux Compression Generators at LLNL**

Goerz, David; Anderson, R.; White, A.; Javedani, J.; Reisman, David; Ferreira, T.; Baluyot, E.; Speer, R.; Milhous, D., 13th International Conference on Megagauss Magnetic Generation and Related Topics, Suzhou China, (2010).

[https://www.researchgate.net/publication/283615208\\_Implementation\\_of\\_Pulsed\\_Power\\_Diagnostics\\_on\\_Explosive\\_Flux\\_Compression\\_Generators\\_at\\_LLNL](https://www.researchgate.net/publication/283615208_Implementation_of_Pulsed_Power_Diagnostics_on_Explosive_Flux_Compression_Generators_at_LLNL)

### **Large-area approach to evaluate DC electro-thermal ageing behavior of BOPP thin films for capacitor insulation systems**

M. Ritamäki; I Rytöluoto; K. Lahti; T. Vestberg; S. Pasanen; and T. Flyktman, IEEE Transactions on Dielectrics and Electrical Insulation, vol. 24, no. 2, pp. 826-836, April (2017), doi: 10.1109/TDEI.2017.006405.

<https://ieeexplore.ieee.org/document/7909190>

### **High-power pulsed corona for treatment of pollutants in heterogeneous media**

A. Pokryvailo et al., IEEE Transactions on Plasma Science, vol. 34, no. 5, pp. 1731-1743, Oct. (2006), doi: 10.1109/TPS.2006.881281. <https://ieeexplore.ieee.org/document/1710034>

### **Production and characterization of jet gases by high-frequency electrical discharge of atmospheric pressure**

Gelios, Alkis, (2015).

<https://nemertes.lis.upatras.gr/jspui/handle/10889/8408>

### **Inactivation of Staphylococcus aureus in water by pulsed spark discharge**

Zheng, Jiansheng, Scientific Reports, 7, (2017), DOI: 10.1038/s41598-017-10784-2.

<https://www.researchgate.net/publication/319470274> Inactivation of Staphylococcus aureus in water by pulsed spark discharge

### **Modeling of Delay Time in Planar Multi-Gap Multi-Channel Gas Switches**

Xiao, Lei; Ma, Jiangbo; Deng, Xin; Yang, Lanjun, Journal of Fusion Energy, 34, (2015), DOI: 10.1007/s10894-015-9880-0.

<https://www.researchgate.net/publication/276345455> Modeling of Delay Time in Planar Multi-Gap Multi-Channel Gas Switches

### **Breakdown Characteristics of Plasma Closing Switch Filled With Air, N<sub>2</sub>, CO<sub>2</sub>, and Ar/O<sub>2</sub>**

Y. Yao, I. V. Timoshkin, S. J. MacGregor, M. P. Wilson, M. J. Given, and T. Wang, IEEE Transactions on Plasma Science, vol. 46, no. 10, pp. 3574-3583, Oct. (2018), doi: 10.1109/TPS.2018.2856306.

<https://ieeexplore.ieee.org/document/8419218>

### **Aerodynamic flow control using jet vectoring plasma actuators**

Ceren Ozturk and Jamey Jacob, Actuated Flow Control I, 47th AIAA Aerospace Sciences Meeting, Orlando, FL, (2009),

doi.org/10.2514/6.2009-486.

<https://arc.aiaa.org/doi/abs/10.2514/6.2009-486>

### **Localized synthesis of metal nanoparticles using nanoscale corona discharge in aqueous solutions**

Bhattacharyya, Sayan; Staack, David; Vitol, Elina; Singhal, Riju; Fridman, Alexander; Friedman, Gary; Gogotsi, Yury, Advanced Materials, 21, 4039-4044, (2009), DOI: 10.1002/adma.200900673.

<https://www.researchgate.net/publication/229897708> Localized Synthesis of Metal Nanoparticles Using Nanoscale Corona Discharge in Aqueous Solutions

### **Maskless patterning by pulsed-power plasma printing**

T. Huiskamp; W. J. M. Brok; A. A. E. Stevens; E. J. M. van Heesch; and A. J. M. Pemen, IEEE Transactions on Plasma Science, vol. 40, no. 7, pp. 1913-1925, July (2012), doi:

10.1109/TPS.2012.2195510.

<https://ieeexplore.ieee.org/document/6215059>

### **Time jitter studies of a small V/n Switch**

A. Larsson, D. Yap, and Y. W. Lim, IEEE Pulsed Power Conference, Chicago, IL, pp. 755-759, (2011), doi: 10.1109/PPC.2011.6191506.

<https://ieeexplore.ieee.org/document/6191506>

### **Characteristics of a novel nanosecond DBD microplasma reactor for flow applications**

Elkholy, Ahmed; Veldhuizen, E.; Nijdam, Sander; Ebert, Ute; van Oijen, Jeroen; Dam, Nico; Goey, Philip, Plasma Sources Science and Technology, 27, (2017), DOI: 10.1088/1361-6595/aabf49.

<https://www.researchgate.net/publication/319622557> Characteristics of a novel nanosecond DBD microplasma reactor for flow applications

### **Effects of the treatment parameters on the efficacy of the inactivation of Salmonella contaminating boiled chicken breast by in-package atmospheric cold plasma treatment**

Roh, Si; Lee, Seung; Park, Hyeon; Lee, Eun; Min, Sea Cheol., International Journal of Food Microbiology, 293, (2018), DOI: 10.1016/j.ijfoodmicro.2018.12.016.

<https://www.researchgate.net/publication/329838534> Effects of the treatment parameters on the efficacy of the inactivation of Salmonella contaminating boiled chicken breast by in-package atmospheric cold plasma treatment

### **Permanent Magnet Penning Trap**

Daniel C. Barnes and Daniel R. Knapp, Cornell University, (2020).

<https://arxiv.org/abs/2004.13103>

### **Reel-to-reel atmospheric pressure dielectric barrier discharge (DBD) plasma treatment of polypropylene films**

Seidelmann, Lukas; Bradley, James; Ratova, Marina; Hewitt, Jonathan; Moffat, Jamie; Kelly, Peter, Applied Sciences, 7, 337, (2017), DOI: 10.3390/app7040337.

<https://www.researchgate.net/publication/315841861> Reel-to-Reel Atmospheric Pressure Dielectric Barrier Discharge DBD Plasma Treatment of Polypropylene Films

### **Using a gyrotron as a source of modulated radiation for data transmission systems in the terahertz range**

Tsvetkov, Alexander; Fokin, Andrey; Sedov, A.; Glyavin, Mikhail, EPJ Web of Conferences, 195, (2018), 09006. DOI: 10.1051/epjconf/201819509006.

<https://www.researchgate.net/publication/329149708> Using a Gyrotron as a Source of Modulated Radiation for Data Transmission Systems in the Terahertz Range

### **Optical Emission Characteristics of Electrical Explosion of Different Wires in Air**

HAN Ruoyu, WU Jiawei, DING Weidong, YAO Weibo, ZHANG Yongmin, QIU Aici, School of Electrical Engineering, Xi'an Jiaotong University, Xi'an, China, (2017).

<https://www.researchgate.net/profile/Ruoyu-Han/publication/321678210> Optical Emission Characteristics of Electrical Explosion of Different Wires in Air/links/5a2c257ba6fdccfbf872e1f/Optical-Emission-Characteristics-of-Electrical-Explosion-of-Different-Wires-in-Air.pdf

## **Technical Papers Referencing North Star High Voltage Probes/Dividers**

### **Continuous Discharge Phenomena in Cavitation Plasma in Sodium Chloride Solution**

Sho Okada, Kohei Sawachika, Tomoya Kuroshima, Yoshihiro Oka, and Hideki Ueno, Plasma Applied Science, Volume 25, No. 1, p. 27-32, (2017).

[https://www.jstage.ist.go.jp/article/aps/25/1/25\\_27/article/-char/ja](https://www.jstage.ist.go.jp/article/aps/25/1/25_27/article/-char/ja)

### **Experimental Investigation of Pulsed Electrical Discharge Energy Deposition in Supersonic Flows**

Nicholas Adam Gawloski, Texas A&M University, (2017).

<https://oaktrust.library.tamu.edu/bitstream/handle/1969.1/161614/GAWLOSKI-THESIS-2017.pdf?sequence=1&isAllowed=y>

### **Dynamics of two microscale DPF devices**

Pollard, William; Duggleby, Andrew; Staack, David, Journal of Physics D: Applied Physics, 49, (2016), DOI: 10.1088/0022-3727/49/5/055201.

[https://www.researchgate.net/publication/287391076\\_Dynamics\\_of\\_two\\_microscale\\_DPF\\_devices](https://www.researchgate.net/publication/287391076_Dynamics_of_two_microscale_DPF_devices)

### **Decomposition characteristics of antibiotics using dielectric barrier plasma reactor**

Proceedings of the Korean Environmental Sciences Society Conference, Vol 23, (2014).

[http://210.101.116.28/W\\_files/kiss5/23107021\\_pv.pdf](http://210.101.116.28/W_files/kiss5/23107021_pv.pdf)

### **Pulsed-high-voltage-supplied variable cross-section cylindrical electrostatic precipitators for fly-ash particles**

Popa, Gabriel and Dascalescu, Lucian, Particulate Science and Technology, 1-8, (2017), DOI: 10.1080/02726351.2017.1340377.

[https://www.researchgate.net/publication/319095934\\_Pulsed-high-voltage-supplied\\_variable\\_cross-section\\_cylindrical\\_electrostatic\\_precipitators\\_for\\_fly-ash\\_particles](https://www.researchgate.net/publication/319095934_Pulsed-high-voltage-supplied_variable_cross-section_cylindrical_electrostatic_precipitators_for_fly-ash_particles)

### **Effect of operating conditions of high voltage impulse on generation of hydroxyl radical generation**

Seung-Yeon Cho and In-Soung Chang, Journal of Korean Society of Water and Wastewater, Vol. 31, No. 6, December (2017).

[http://hoseowater.cafe24.com/2017%20Effect%20of%20operating%20conditions%20of%20high%20voltage%20impulse%20on%20generation%20of%20hydroxyl%20radical%20\(RNO\).pdf](http://hoseowater.cafe24.com/2017%20Effect%20of%20operating%20conditions%20of%20high%20voltage%20impulse%20on%20generation%20of%20hydroxyl%20radical%20(RNO).pdf)

### **Effect of Initial Volume of Hard Water and Contact Time on the Reduction of Calcium Ion Concentration using High Voltage Impulse Technique**

Cho, S.-Y; Kim, T.-H; Chang, In-Soung; Hong, W.-K; Lee, J.-H, Transactions of the Korean Institute of Electrical Engineers, 66, 1066-1071, (2017), DOI: 10.5370/KIEE.2017.66.7.1066.

[https://www.researchgate.net/publication/320418324\\_Effect\\_of\\_initial\\_volume\\_of\\_hard\\_water\\_and\\_contact\\_time\\_on\\_the\\_reduction\\_of\\_calcium\\_ion\\_concentration\\_using\\_high\\_voltage\\_impulse\\_technique](https://www.researchgate.net/publication/320418324_Effect_of_initial_volume_of_hard_water_and_contact_time_on_the_reduction_of_calcium_ion_concentration_using_high_voltage_impulse_technique)

**Effect of the applied voltage of pulsed electric fields and temperature on the reduction of calcium ion concentration** Jae-Hyun Kim and In-Soung Chang, Department of Convergence Technology for Safety and Environment, Hoseo University, Republic of Korea, (2019).  
<http://hoseowater.cafe24.com/Oc411297kim.pdf>

**A Microcontroller-Based Modular Pulsed HV Power Supply: Design, Implementation, and Tests on DBD-Based Plasmas** A. Koliadimas; D. Apostolopoulos; P. Svarnas; K. Sklias; D. Athanasopoulos; and E. D. Mitronikas, IEEE Transactions on Plasma Science, vol. 47, no. 3, pp. 1621-1628, March (2019), doi: 10.1109/TPS.2019.2896299.  
<https://ieeexplore.ieee.org/document/8645824>

**A study on the decomposition of trichloroethylene using a low temperature plasma/catalyst complex process** Youngseon Mok and Changmo Nam, Journal of the Korean Society for Industrial Applications, Vol. 6, No. 4, pp. 269-75, (2003).  
<http://www.dbpia.co.kr/Journal/articleDetail?nodeId=NODE00514981>

**Isolated Ground Return Electrode for Use in Gaseous and Cryogenic Propellants** Nicholas Nugent, David Helderman, and William Anderson, 44th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, Hartford, CT, (2008), doi.org/10.2514/6.2008-4758.  
<https://arc.aiaa.org/doi/10.2514/6.2008-4758>

**A Simple Self-Breakdown Sharpening Switch With Low Jitter and Stable Breakdown Voltage** Y. Liu; X. Feng; F. Lin; and L. Lee, IEEE Transactions on Plasma Science, vol. 41, no. 1, pp. 192-198, Jan. (2013), doi: 10.1109/TPS.2012.2228238.  
<https://ieeexplore.ieee.org/document/6374691>

**Demonstration of a novel pulsed electric field technique generating neither conduction currents nor Joule effects** B. M. Novac et al., IEEE Transactions on Plasma Science, vol. 42, no. 1, pp. 216-228, Jan. (2014), doi: 10.1109/TPS.2013.2293915.  
<https://ieeexplore.ieee.org/document/6687210>

**Simultaneous desulfurization denitrification process using ozone generator and absorption reduction method** Mok Young-seon, Lee Joo-hyuk, Shin Dong-nam, Go Dong-jun, Kim Kyung-tae, Journal of the Korean Environmental Engineering Society, Vol. 28, No. 2, pp. 191-96, (2006). <http://www.dbpia.co.kr/Journal/articleDetail?nodeId=NODE06751853>

**Breakdown Voltage Determination for Gaseous and Cryogenic Propellants** Nugent, Nicholas; Helderman, David; Boopalan, Avanthi; Anderson, William, 43rd AIAA/ASME/SAE/ASEE Joint Propulsion Conference, 4, (2007), 10.2514/6.2007-5440.  
[https://www.researchgate.net/publication/268482505\\_Breakdown\\_Voltage\\_Determination\\_for\\_Gaseous\\_and\\_Cryogenic\\_Propellants](https://www.researchgate.net/publication/268482505_Breakdown_Voltage_Determination_for_Gaseous_and_Cryogenic_Propellants)

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Improving plasma actuator performance at low pressure, and an analysis of the pointing capabilities of cubesats using plasmonic force propulsion (PFP) thrusters**

Paul Daniel Friz, Thesis (M.S.), Missouri University of Science and Technology, (2014).

[https://scholarsmine.mst.edu/cgi/viewcontent.cgi?article=8253&context=masters\\_theses](https://scholarsmine.mst.edu/cgi/viewcontent.cgi?article=8253&context=masters_theses)

**Investigation of changes of physical and chemical properties of tap water under influence of powerful underwater spark discharges**

Vinnikov, D.; Korytchenko, K.; Tkachov, V.; Egorenkov, V.; Kudin, Dmitriy; Mirnaya, T., Electrical Engineering & Electromechanics, 39-46, (2017), DOI: 10.20998/2074-272X.2017.1.07.

[https://www.researchgate.net/publication/318354543\\_INVESTIGATION\\_OF\\_CHANGES\\_OF\\_PHYSICAL\\_AND\\_CHEMICAL\\_PROPERTIES\\_OF\\_TAP\\_WATER\\_UNDER\\_INFLUENCE\\_OF\\_POWERFUL\\_UNDERWATER\\_SPARK\\_DISCHARGES](https://www.researchgate.net/publication/318354543_INVESTIGATION_OF_CHANGES_OF_PHYSICAL_AND_CHEMICAL_PROPERTIES_OF_TAP_WATER_UNDER_INFLUENCE_OF_POWERFUL_UNDERWATER_SPARK_DISCHARGES)

**Influences of Packing Materials, Applied Voltage, Gas Composition and Voltage Polarity on the Decomposition of Toluene and the Power Delivery in a Dielectric Barrier Plasma Reactor**

Young Sun Mok, Ho Won Lee, Young-Jin Hyun, Sung Won Ham, Moo Hyun Cho, and In-Sik Nam, Journal of the Korean Institute of Chemical Engineering, V. 40, No. 1, (2002).

<https://pdfs.semanticscholar.org/54b0/671221e9bf4b9d5f2b523be872f2f5a97132.pdf>

**Jet vectoring and vorticity generation using plasma actuators**

Bolitho, Michael, Oklahoma State University thesis, (2008).

<https://shareok.org/handle/11244/9904>.

**First Experiments on Data Transmission Using a Sub-THz Gyrotron**

Tsvetkov, Alexander; Fokin, Andrey; Sedov, A., Journal of Infrared, Millimeter, and Terahertz Waves, 40, (2019), DOI: 10.1007/s10762-019-00595-z.

[https://www.researchgate.net/publication/332889539\\_First\\_Experiments\\_on\\_Data\\_Transmission\\_Using\\_a\\_Sub-THz\\_Gyrotron](https://www.researchgate.net/publication/332889539_First_Experiments_on_Data_Transmission_Using_a_Sub-THz_Gyrotron)

**Data transmission using the gyrotron signal as the carrier**

A. Fokin; A.Sedov; A. Tsvetkov, 30th Joint Russian-German Meeting on ECRH and Gyrotrons, Institute of Applied Physics of the Russian Academy of Sciences, Nizhny Novgorod, Russia, (2018), doi.org/10.1051/epjconf/201818701007.

[https://www.epj-conferences.org/articles/epjconf/pdf/2018/22/epjconf\\_rgm2018\\_01007.pdf](https://www.epj-conferences.org/articles/epjconf/pdf/2018/22/epjconf_rgm2018_01007.pdf)

**Acoustic impulses generated by air-bubble stimulated underwater spark discharges**

Y. Sun et al., IEEE Transactions on Dielectrics and Electrical Insulation, vol. 25, no. 5, pp. 1915-1923, Oct. (2018), doi: 0.1109/TDEI.2018.007293.

<https://ieeexplore.ieee.org/abstract/document/8484905>

### **Effect of plasma discharge on selective catalytic reduction of nitrogen oxides**

Young Sun Mok, Ho-Chul Kang, Ho Won Lee, and In-Sik Nam, Journal of the Korean Institute of Chemical Engineering, Vol. 41, No. 2, April, pp. 256-263, (2003).

<https://pdfs.semanticscholar.org/2444/e6bbe37dcd0383c4ae5851cf3594d39a8dc2.pdf>

### **Uniform dielectric barrier discharge with nanosecond pulse excitation for biomedical applications**

Ayan, Halim, Thesis, Drexel University, (2009).

<https://idea.library.drexel.edu/islandora/object/idea%3A3078>

### **Experimental Determination and Modeling of Used Fuel Drying by Vacuum and Gas**

Circulation for Dry Cask Storage Travis Knight et al., University of South Carolina, (2009).

<https://neup.inl.gov/SiteAssets/Final%20%20Reports/FY%202014/14-7730%20NEUP%20Final%20Report.pdf>

### **Experimental study of skin wettability modification by cold atmospheric pressure plasma**

Dimitrios Athanasopoulos, Thesis, University of Patras, Greece, (2017).

[https://nemertes.lis.upatras.gr/jspui/bitstream/10889/10903/7/Nemertes\\_Athanasopoulos%28ele%29.pdf](https://nemertes.lis.upatras.gr/jspui/bitstream/10889/10903/7/Nemertes_Athanasopoulos%28ele%29.pdf)

### **Efficient Control of Output Parameters of the Medium Power Gyrotrons**

A. I. Tsvetkov et al., Progress in Electromagnetics Research Symposium (PIERS-Toyama), Toyama, pp. 1159-1165, (2018), doi: 10.23919/PIERS.2018.8597766.

<https://ieeexplore.ieee.org/document/8597766>

### **Characterization of pulsed UV sources**

Feathers, Shannon Paul, Thesis, Texas Tech University, (2016).

<https://ttu-ir.tdl.org/handle/2346/72350>

### **The electrothermal instability on pulsed power ablations of thin foils**

Steiner, Adam, Thesis, University of Michigan, (2016).

<https://deepblue.lib.umich.edu/handle/2027.42/135827>

### **Nitrogen monoxide removal process modeling by dielectric discharge plasma process**

Mok Young-sun, Journal of the Korean Society for Industrial Applications, Vol. 6, No.4, (2003).

<http://www.dbpia.co.kr/Journal/articleDetail?nodeId=NODE00514982>

### **The generation of triggered shock-waves in shock-tubes with exploding wires**

M. E. J. Rudroff, A. Lodes, R. D. Curry, M. Schmidt, and W. Brown, IEEE Pulsed Power Conference, Chicago, IL, (2011), pp. 1072-1076, doi: 10.1109/PPC.2011.6191645.

<https://ieeexplore.ieee.org/document/6191645>

## **Technical Papers Referencing North Star High Voltage Probes/Dividers**

**An investigation into the optical emission from pulsed planar surface discharges and their application for the pumping of dye lasers** D. J. Fulker et al., 28th IEEE International Conference on Plasma Science and 13th IEEE International Pulsed Power Conference, Digest of Papers (Cat. No.01CH37251), Las Vegas, NV, USA, pp. 1543-1546, vol.2, (2001), doi: 10.1109/PPPS.2001.1001855.

<https://ieeexplore.ieee.org/abstract/document/1001855>

**Factors affecting and methods of improving the pulse repetition frequency of pulse-charged and DC-charged high-pressure gas switches** S. J. MacGregor, S. M. Turnbull, F. A. Tuema, and O. Farish, IEEE Transactions on Plasma Science, vol. 25, no. 2, pp. 110-117, April (1997), doi: 10.1109/27.602480. <https://ieeexplore.ieee.org/document/602480>

**Inception and propagation of positive streamers in high-purity nitrogen: effects of the voltage rise rate** Clevis, T.; Nijdam, Sander; Ebert, Ute, Journal of Physics D: Applied Physics, 46, (2012), 10.1088/0022-3727/46/4/045202.

[https://www.researchgate.net/publication/230700722\\_Inception\\_and\\_propagation\\_of\\_positive\\_streamers\\_in\\_high-purity\\_nitrogen\\_Effects\\_of\\_the\\_voltage\\_rise\\_rate](https://www.researchgate.net/publication/230700722_Inception_and_propagation_of_positive_streamers_in_high-purity_nitrogen_Effects_of_the_voltage_rise_rate)

**Time jitter study of a corona-stabilized closing switch** A. Larsson, D. Yap, and Y. W. Lim, IEEE Transactions on Plasma Science, vol. 40, no. 10, pp. 2646-2652, Oct. (2012), doi: 10.1109/TPS.2012.2208103. <https://ieeexplore.ieee.org/document/6261555>

#### **The influence of charge on surface flashover**

R. A. Fouracre; F. A. Twema; S. J. MacGregor; and M. J. Given, Eleventh International Symposium on High Voltage Engineering, London, UK, 1999, pp. 329-332, vol.3, (1999), doi: 10.1049/cp:19990766. <https://ieeexplore.ieee.org/abstract/document/816787>

**Study of nanosecond pulsed high frequency discharge ignition in a flowing methane/air mixture** Joseph K. Lefkowitz and Timothy Ombrello, 55th AIAA Aerospace Sciences Meeting, Grapevine, Texas, January (2017), doi.org/10.2514/6.2017-1777.

<https://arc.aiaa.org/doi/abs/10.2514/6.2017-1777>

#### **Parametric Analysis of Ignition Circuit Components on Spark Discharge Characteristics**

Yu, Shui; Tan, Qingyuan; Ives, Mark; Liu, Mengzhu; Li, Liguang; Chen, Xiang; Zheng, Ming, SAE World Congress and Exhibition (2016), 10.4271/2016-01-1011.

[https://www.researchgate.net/publication/301242956\\_Parametric\\_Analysis\\_of\\_Ignition\\_Circuit\\_Components\\_on\\_Spark\\_Discharge\\_Characteristics](https://www.researchgate.net/publication/301242956_Parametric_Analysis_of_Ignition_Circuit_Components_on_Spark_Discharge_Characteristics)

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

**The production and evolution of atomic oxygen in the afterglow of streamer discharge in atmospheric pressure fuel/air mixtures** S J Pendleton; S Bowman; C Carter; M A Gundersen; and W Lempert, Journal of Physics D: Applied Physics, Volume 46, Number 30, (2013).

<https://iopscience.iop.org/article/10.1088/0022-3727/46/30/305202>

**Operating conditions and switching delay time of a corona-stabilized switch during repetitive operation** A. Larsson, D. Yap and J. Au, IEEE Transactions on Plasma Science, vol. 41, no. 10, pp. 2605-2608, Oct. (2013), doi: 10.1109/TPS.2013.2250527.

<https://ieeexplore.ieee.org/document/6607197>

**Rep-rated operation of a modular, compact HV-capacitor charger**

T. T. Vollmer and M. G. Giesselmann, IEEE Pulsed Power Conference, Chicago, IL, pp. 1590-1592, (2011), doi: 10.1109/PPC.2011.6191687.

<https://ieeexplore.ieee.org/document/6191687>

**The spectral properties of UV radiation from pulsed surface discharges**

F. A. Tuema, S. J. MacGregor, R. A. Fouracre, P. A. Winstanley, and D. J. Fulker, Digest of Technical Papers, 12th IEEE International Pulsed Power Conference, Monterey, CA, pp. 1106-1109, vol.2, (1999), doi: 10.1109/PPC.1999.823714.

<https://ieeexplore.ieee.org/document/823714>

**Single-pulse avalanche mode operation of 10-kV/10-A SiC MOSFET**

Mitchell D.Kelley, Bejoy N.Pushpakaran, Argenis V. Bilbao, James A. Schrock, Stephen B. Bayne, Microelectronics Reliability, Volume 81, pages 174-180, February (2018).

<https://www.sciencedirect.com/science/article/abs/pii/S0026271417305693>

**The propagation of a 4 metre guided discharge across a dielectric surface**

S. J. MacGregor, R. Fouracre, M. J. Given, and S. M. Turnbull, Seventh International Conference on Dielectric Materials, Measurements and Applications, Bath, UK, pp. 184-189, (1996), doi: 10.1049/cp:19961018.

<https://ieeexplore.ieee.org/document/607378>

**A compact and portable EMP generator based on Tesla transformer technology**

Partha Sarkar, PhD thesis, Loughborough University, (2012).

[https://repository.lboro.ac.uk/articles/A\\_compact\\_and\\_portable\\_EMP\\_generator\\_based\\_on\\_Tesla\\_transformer\\_technology/9515588](https://repository.lboro.ac.uk/articles/A_compact_and_portable_EMP_generator_based_on_Tesla_transformer_technology/9515588)

**Experimental and Theoretical Studies on the Effect of Electrode Area on Static Performance of Gas Switches** W. Luo, P. Cong, T. Huang, T. Sun, and A. Qiu, IEEE Transactions on Plasma Science, vol. 46, no. 7, pp. 2558-2561, July (2018), doi: 10.1109/TPS.2017.2764049.

<https://ieeexplore.ieee.org/document/8277167>

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

### **Characterizing streamer branching in N<sub>2</sub>-O<sub>2</sub> mixtures by 2D peak-finding**

Li, Yuan; Dijcks, Siebe; Sun, Guangyu; Wen, Jia-Ye; Xu, Yao-Yu; Zhang, Guan-Jun; Ebert, Ute; Nijdam, Sander, Plasma Sources Science and Technology, 29, (2020), 10.1088/1361-6595/ab73de.

<https://www.researchgate.net/publication/339120326> Characterizing streamer branching in N<sub>2</sub>-O<sub>2</sub> mixtures by 2D peak-finding

### **Direct comparison of pulsed spark discharges in air and water by synchronized electrical and optical diagnostics**

Höft, Hans; Huiskamp, Tom, The European Physical Journal D. 72, (2018), 10.1140/epjd/e2018-90505-0.

<https://www.researchgate.net/publication/329746004> Direct comparison of pulsed spark discharges in air and water by synchronized electrical and optical diagnostics

### **Study of the effect of glow discharges near a M= 3 bow shock**

Elias, Paul-Quentin; Chanetz, Bruno; Larigaldie, Serge; Packan, Denis, (2007), Aiaa Journal - AIAA J., 45, pp. 2237-2245, (2007), 10.2514/1.28515.

<https://www.researchgate.net/publication/245426310> Study of the Effect of Glow Discharges Near a M 3 Bow Shock

### **Time jitter studies of a corona-stabilised closing switch**

A. Larsson; D. Yap; and Y. W. Lim, IEEE Pulsed Power Conference, Chicago, IL, pp. 749-754, (2011), doi: 10.1109/PPC.2011.6191505.

<https://ieeexplore.ieee.org/document/6191505>

### **Optimization of compact power modulators for transient plasma ignition**

D. Singleton; M. A. Gundersen; and A. Simone, IEEE International Power Modulator and High Voltage Conference, Atlanta, GA, pp. 254-257, (2010), doi: 10.1109/IPMHVC.2010.5958341.

<https://ieeexplore.ieee.org/document/5958341>

### **Design and Experimental Test Of 250 GHz/300 kW/CW Gyrotron**

Denisov, G. et al., EPJ Web of Conference, (2018), DOI: 10.1051/epjconf/201818701006.

<https://www.researchgate.net/publication/327399881> Design and Experimental Test Of 250 GHz300 kW CW Gyrotron

### **Impulsive discharges in water: acoustic and hydrodynamic parameters**

Y. Sun et al., IEEE Transactions on Plasma Science, vol. 44, no. 10, pp. 2156-2166, Oct. (2016), doi: 10.1109/TPS.2016.2583066. <https://ieeexplore.ieee.org/document/7506237>

### **Compact 400 kV Marx generator with common switch housing**

J. D. Graham, D. G. Gale, W. E. Sommars, and S. E. Calico, Digest of Technical Papers, 11th IEEE International Pulsed Power Conference, Baltimore, MA, USA, pp. 1519-1523, vol.2, (1997), doi: 10.1109/PPC.1997.674619.

<https://ieeexplore.ieee.org/document/674619>

### **RECENT DEVELOPMENTS IN NANOSECOND PULSED SLIDING DISCHARGE FOR AIRFLOW**

**CONTROL** Bayoda, Kossi; Benard, Nicolas; Moreau, Eric, RECENT DEVELOPMENTS IN NANOSECOND PULSED SLIDING DISCHARGE FOR AIRFLOW CONTROL, Université de Poitiers, Futuroscope, France, (2014).

[https://www.researchgate.net/publication/302932509\\_RECENT\\_DEVELOPMENTS\\_IN\\_NANOSECOND\\_PULSED\\_SLIDING\\_DISCHARGE\\_FOR\\_AIRFLOW\\_CONTROL](https://www.researchgate.net/publication/302932509_RECENT_DEVELOPMENTS_IN_NANOSECOND_PULSED_SLIDING_DISCHARGE_FOR_AIRFLOW_CONTROL)

### **Lead paint removal with high-intensity light pulses**

Grappnerhaus, Michael and Schaefer, Raymond, Environmental Science & Technology, 40 (24), pp. 7925-9, (2007), DOI: 10.1021/es061328g.

[https://www.researchgate.net/publication/6546783\\_Lead\\_Paint\\_Removal\\_with\\_High-Intensity\\_Light\\_Pulses](https://www.researchgate.net/publication/6546783_Lead_Paint_Removal_with_High-Intensity_Light_Pulses)

### **Breakdown Characteristics of Natural and Synthetic Ester Liquids When Containing Varying Levels of Moisture**

C. Williamson et al., IEEE Pulsed Power & Plasma Science (PPPS), Orlando, FL, USA, pp. 1-6, (2019), doi: 10.1109/PPPS34859.2019.9009857.

<https://ieeexplore.ieee.org/document/9009857>

### **The effect of anode on the initial stage of a vacuum discharge**

Z. Zhou et al., 4th International Conference on Electric Power Equipment - Switching Technology (ICEPE-ST), Xi'an, pp. 569-572, (2017), doi: 10.1109/ICEPE-ST.2017.8188912.

<https://ieeexplore.ieee.org/document/8188912>

### **A Framework for the Active Control of Corona Ignition Systems**

Wang, Linyan; Tan, Qingyuan; Yu, Shui; Yu, Xiao; Chen, Xiang; Zheng, Ming, Conference: 2019 JSAE/SAE Powertrains, Fuels, and Lubricants, (2019), DOI: 10.4271/2019-01-2157.

[https://www.researchgate.net/publication/338079190\\_A\\_Framework\\_for\\_the\\_Active\\_Control\\_of\\_Corona\\_Ignition\\_Systems](https://www.researchgate.net/publication/338079190_A_Framework_for_the_Active_Control_of_Corona_Ignition_Systems)

### **A new, compact pulsed power system based on surge arrestor technology**

M. C. Clark, IEEE Pulsed Power Conference, Washington, DC, 2009, pp. 938-943, (2009), doi: 10.1109/PPC.2009.5386093.

<https://ieeexplore.ieee.org/document/5386093>

### **Spherical Penning trap as a small fusion source**

Daniel C. Barnes and Daniel R. Knapp, PowerPoint presentation, IEC, College Park MD, (2018).  
[https://cpb-us-e1.wpmucdn.com/blog.umd.edu/dist/d/568/files/2018/10/BarnesKnapp\\_paper\\_2018-1jk7hvd.pdf](https://cpb-us-e1.wpmucdn.com/blog.umd.edu/dist/d/568/files/2018/10/BarnesKnapp_paper_2018-1jk7hvd.pdf)

### **High voltage solid state switched Vector Inversion Generators**

Z. Shotts and M. F. Rose, IEEE Pulsed Power Conference, Washington, DC, 2009, pp. 908-912, (2009), doi: 10.1109/PPC.2009.5386220. <https://ieeexplore.ieee.org/document/5386220>

### **Study on jitter of 30Hz surface discharge radiation source**

Huang, Chao; Liu, Jing-ru; Yu, Li; Tang, Ying; An, Xiao-xia; Yi, Ai-ping; Zhu, Feng; Huang, Ke; Ma, Lian-ying, Proceedings of SPIE - The International Society for Optical Engineering, 8677, (2012), DOI: 10.1117/12.2010619.

[https://www.researchgate.net/publication/258721916\\_Study\\_on\\_Jitter\\_of\\_30Hz\\_Surface\\_Discharge\\_Radiation\\_Source](https://www.researchgate.net/publication/258721916_Study_on_Jitter_of_30Hz_Surface_Discharge_Radiation_Source)

### **Measurement and simulation of pulsed plasma development at medium pressure in a non-uniform field**

A. Fierro, J. Dickens, and A. Neuber, IEEE International Power Modulator and High Voltage Conference (IPMHVC), Santa Fe, NM, pp. 488-491, (2014), doi: 10.1109/IPMHVC.2014.7287318. <https://ieeexplore.ieee.org/document/7287318>

### **Series Connection of Gas and Vacuum Circuit Breakers as a Hybrid Circuit Breaker in High-Voltage Applications**

N. Götte, T. Krampert, and P. G. Nikolic, IEEE Transactions on Plasma Science, vol. 48, no. 7, pp. 2577-2584, July (2020), doi: 10.1109/TPS.2020.3003429.

<https://ieeexplore.ieee.org/document/9127134>

### **Performance of plasma closing switches filled with air, nitrogen and a nitrogen/oxygen mixture**

M. Hogg, I. Timoshkin, S. Macgregor, M. Given, M. Wilson, T. Wang, University of Strathclyde, Glasgow.

[https://gd2014.sciencesconf.org/28585/GD\\_2014\\_Michael\\_G\\_Hogg\\_28585\\_.pdf](https://gd2014.sciencesconf.org/28585/GD_2014_Michael_G_Hogg_28585_.pdf)

### **High Energy Ignition Strategies for Diluted Mixtures via a Three-Pole Igniter**

Yu, S.; Xie, K.; Yu, X.; Wang, M.; et al., SAE Technical Paper 2016-01-2175, (2016), doi: 10.4271/2016-01-2175.

<https://www.sae.org/publications/technical-papers/content/2016-01-2175/>

### **Single nanosecond dielectric barrier discharge and pulsed sliding discharge applied to separation control along a NACA 0015 airfoil**

Bayoda, Kossi; Benard, Nicolas; Moreau, Eric, Conference: 46th AIAA Plasmadynamics and Lasers Conference (2015), 10.2514/6.2015-2344.

[https://www.researchgate.net/publication/299641084\\_Single\\_Nanosecond\\_Dielectric\\_Barrier\\_Discharge\\_and\\_Pulsed\\_Sliding\\_Discharge\\_Applied\\_to\\_Separation\\_Control\\_Along\\_a\\_NACA\\_0015\\_Airfoil](https://www.researchgate.net/publication/299641084_Single_Nanosecond_Dielectric_Barrier_Discharge_and_Pulsed_Sliding_Discharge_Applied_to_Separation_Control_Along_a_NACA_0015_Airfoil)

## **Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Nanosecond pulsed sliding dielectric barrier discharge plasma actuator for airflow control: electrical, optical, and mechanical characteristics**

Bayoda, Kossi; Benard, Nicolas; and Moreau, Eric, Journal of Applied Physics, 118 (6), (2015), DOI: 10.1063/1.4927844.

[https://www.researchgate.net/publication/281592886\\_Nanosecond\\_pulsed\\_sliding\\_dielectric\\_barrier\\_discharge\\_plasma\\_actuator\\_for\\_airflow\\_control\\_Electrical\\_optical\\_and\\_mechanical\\_characteristics](https://www.researchgate.net/publication/281592886_Nanosecond_pulsed_sliding_dielectric_barrier_discharge_plasma_actuator_for_airflow_control_Electrical_optical_and_mechanical_characteristics)

**Low energy compact power modulators for transient plasma ignition**

D. R. Singleton, A. Kuthi, J. M. Sanders, M. A. Gundersen, A. Simone, and S. J. Pendleton, IEEE Transactions on Dielectrics and Electrical Insulation, vol. 18, no. 4, pp. 1084-1090, August (2011), doi: 10.1109/TDEI.2011.5976099. <https://ieeexplore.ieee.org/document/5976099>

**A self-consistent model of ionic wind generation by negative corona discharges in air with experimental validation** Chen, She; Nobelen, Jasper; Nijdam, Sander, Plasma Sources Science and Technology, 26, (2017), DOI: 10.1088/1361-6595/aa86b8.

[https://www.researchgate.net/publication/319161967\\_A\\_self-consistent\\_model\\_of\\_ionic\\_wind\\_generation\\_by\\_negative\\_corona\\_discharges\\_in\\_air\\_with\\_experimental\\_validation](https://www.researchgate.net/publication/319161967_A_self-consistent_model_of_ionic_wind_generation_by_negative_corona_discharges_in_air_with_experimental_validation)

**Spark Ignition Circuit Energy Characterization based on a Simplified Model and Measurement Analysis**

Tan, Qingyuan; Yu, Shui; Chen, Xiang; Zheng, Ming, SAE Technical Papers, (2015), DOI: 10.4271/2015-01-1271.

[https://www.researchgate.net/publication/283001815\\_Spark\\_Ignition\\_Circuit\\_Energy\\_Characterization\\_based\\_on\\_a\\_Simplified\\_Model\\_and\\_Measurement\\_Analysis](https://www.researchgate.net/publication/283001815_Spark_Ignition_Circuit_Energy_Characterization_based_on_a_Simplified_Model_and_Measurement_Analysis)

**Switching behavior of a double gap pseudospark discharge**

V. Pathania et al., IEEE Transactions on Dielectrics and Electrical Insulation, vol. 22, no. 6, pp. 3299-3304, December (2015), doi: 10.1109/TDEI.2015.004983.

<https://ieeexplore.ieee.org/document/7367524>

**Investigation of a fast high-repetitive 10-kV SiC-MOSFET switching module**

R. Bischoff, M. Stoll, R. Himmelsbach, and S. Scharnholz, IEEE International Power Modulator and High Voltage Conference (IPMHVC), Jackson, WY, USA, 2018, pp. 200-203, (2018), doi: 10.1109/IPMHVC.2018.8936693.

<https://ieeexplore.ieee.org/document/8936693>

**Spectroscopic study of vacuum arc plasma expansion**

Zhou, Zhipeng et al., Journal of Physics D: Applied Physics, 53 (12), (2019), DOI: 10.1088/1361-6463/ab642a.

[https://www.researchgate.net/publication/338060734\\_Spectroscopic\\_study\\_of\\_vacuum\\_arc\\_plasma\\_expansion](https://www.researchgate.net/publication/338060734_Spectroscopic_study_of_vacuum_arc_plasma_expansion)

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Electrical and acoustic parameters of wire-guided discharges in water: experimental determination and phenomenological scaling** Y. Sun et al., IEEE Transactions on Plasma Science, vol. 45, no. 10, pp. 2648-2655, Oct. (2017), doi: 10.1109/TPS.2017.2717602.  
<https://ieeexplore.ieee.org/document/7962241>

**New pulsed jet using spark plasma discharge: Subsonic configuration**  
Benard, Nicolas; Zong, Haohua; Zhang, Yang; Kotsonis, Marios; Acher, Gwenael; Cattafesta, Louis; Bonnet, Jean-Paul; and Moreau, Eric, Conference: AIAA Scitech 2020 Forum, (2020), DOI: 10.2514/6.2020-2149.  
[https://www.researchgate.net/publication/338401143\\_New\\_pulsed\\_jet\\_using\\_spark\\_plasma\\_discharge\\_Subsonic\\_configuration/citation/download](https://www.researchgate.net/publication/338401143_New_pulsed_jet_using_spark_plasma_discharge_Subsonic_configuration/citation/download)

**An SDBD plasma-catalytic system for on-demand air purification**  
A. J. M. Pemen, V. R. Chirumamilla, F. J. C. M. Beckers, W. F. L. M. Hoeben, and T. Huiskamp, IEEE Transactions on Plasma Science, vol. 46, no. 12, pp. 4078-4090, Dec. (2018), doi: 10.1109/TPS.2018.2855402. <https://ieeexplore.ieee.org/document/8423439>

**Effect of humidity and air pressure on the discharge modes transition characteristics of negative DC corona** S. Chen; K. Li; F. Wang; Q. Sun; and L. Zhong, IET Science, Measurement & Technology, vol. 13, no. 8, pp. 1212-1218, 10 (2019), doi: 10.1049/iet-smt.2019.0032.  
<https://ieeexplore.ieee.org/document/8870334>

**Ignition Improvement for Ultra-Lean Dilute Gasoline Combustion**  
Yu, S.; Yu, X.; Yang, Z.; Wang, M., et al., SAE Technical Paper 2017-01-2244, (2017), DOI: 10.4271/2017-01-2244.  
<https://www.sae.org/publications/technical-papers/content/2017-01-2244/>

**Investigation on a novel multiple-switch pulsed power technology**  
Z. Liu; K. Yan; A. J. M. Pemen; E. J. M. Van Heesch; and G. J. J. Winands, IEEE Pulsed Power Conference, Monterey, CA, pp. 1081-1084, (2005), doi: 10.1109/PPC.2005.300507.  
<https://ieeexplore.ieee.org/document/4084409>

**Spark Distribution to Improve Diluted Gasoline Combustion**  
Zheng, Ming; Yu, Shui; Yu, Xiao; Yang, Zhenyi, The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines, (2017), 2017.9. B310. 10.1299/jmsesdm.2017.9.B310.  
[https://www.researchgate.net/publication/323437149\\_Spark\\_Distribution\\_to\\_Improve\\_Diluted\\_Gasoline\\_Combustion](https://www.researchgate.net/publication/323437149_Spark_Distribution_to_Improve_Diluted_Gasoline_Combustion)

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Potential of pulsed corona discharges generated in water for the degradation of persistent pharmaceutical residues** Banaschik, Robert; Lukes, Petr; Jablonowski, Helena; Hammer, Malte; Weltmann, Klaus-Dieter; Kolb, Juergen, *Water Research*, 84, pp. 127-135, (2015), DOI: 10.1016/j.watres.2015.07.018.

[https://www.researchgate.net/publication/280589088\\_Potential\\_of\\_Pulsed\\_Corona\\_Discharges\\_Generated\\_in\\_Water\\_for\\_the\\_Degradation\\_of\\_Persistent\\_Pharmaceutical\\_Residues](https://www.researchgate.net/publication/280589088_Potential_of_Pulsed_Corona_Discharges_Generated_in_Water_for_the_Degradation_of_Persistent_Pharmaceutical_Residues)

**High energy multipole distribution spark ignition system**

Zheng, Ming; Yu, Shui; Tjong, Jimi, Conference paper, (2017), DOI: 10.1007/978-3-319-45504-4\_6.

[https://www.researchgate.net/publication/310500661\\_High\\_Energy\\_Multipole\\_Distribution\\_Spark\\_Ignition\\_System](https://www.researchgate.net/publication/310500661_High_Energy_Multipole_Distribution_Spark_Ignition_System)

**Pulsed breakdown characterization of advanced liquid dielectrics for high-power high-pressure rep-rate oil switching**

C. Yeckel and R. D. Curry, 2009 IEEE Pulsed Power Conference, Washington, DC, pp. 860-865, (2009), doi: 10.1109/PPC.2009.5386374.

<https://ieeexplore.ieee.org/document/5386374>

**Data Transmission Using the Agrotron Signal as a Carrier**

<http://www.mwelectronics.ru/2018/Papers/205-208.pdf>

**A solid-state 0–120 kV microsecond pulse charger for a nanosecond pulse source**

T. Huiskamp, F. J. C. M. Beckers, E. J. M. van Heesch, and A. J. M. Pemen, *IEEE Transactions on Plasma Science*, vol. 41, no. 12, pp. 3666-3674, Dec. (2013), doi: 10.1109/TPS.2013.2286499.

<https://ieeexplore.ieee.org/document/6654299>

**Evidence of thunder being a chemical explosion of air**

GRANEAU , PETER; Graneau, Neal; Hathaway, George, *Journal of Plasma Physics*, 69, pp. 187-197, (2003), DOI: 10.1017/S0022377803002198.

[https://www.researchgate.net/publication/231939710\\_Evidence\\_of\\_thunder\\_being\\_a\\_chemical\\_explosion\\_of\\_air](https://www.researchgate.net/publication/231939710_Evidence_of_thunder_being_a_chemical_explosion_of_air)

**On the low-temperature plasma discharge in methane/air diffusion flames**

Zare, Saeid; Lo, Hao; Roy, Shrabanti; Askari, Omid, *Energy*, (2020), DOI: 10.1016/j.energy.2020.

[https://www.researchgate.net/publication/339307915\\_On\\_the\\_Low-Temperature\\_Plasma\\_Discharge\\_in\\_MethaneAir\\_Diffusion\\_Flames](https://www.researchgate.net/publication/339307915_On_the_Low-Temperature_Plasma_Discharge_in_MethaneAir_Diffusion_Flames)

### **Flow control in an axial compressor using plasma actuators**

Williamson, Craig; Weierman, Jacob; Jacob, Jamey, Conference: 39th AIAA Fluid Dynamics Conference, (2009), DOI: 10.2514/6.2009-4290.

[https://www.researchgate.net/publication/269129551\\_Flow\\_Control\\_in\\_an\\_Axial\\_Compressor\\_Using\\_Plasma\\_Actuators](https://www.researchgate.net/publication/269129551_Flow_Control_in_an_Axial_Compressor_Using_Plasma_Actuators)

### **A modular, high REP-RATE, fast-risetime, optically-isolated, pulse trigger generator**

D. H. Barnett et al., 2015 IEEE Pulsed Power Conference (PPC), Austin, TX, pp. 1-4, (2015), doi: 10.1109/PPC.2015.7296790. <https://ieeexplore.ieee.org/document/7296790>

### **Degradation of organic dyes by nanosecond pulsed discharge plasma**

Qiu Congying, Guan Xiantao, Liu Zhen, et al., High Power Laser and Particle Beams, 32: 025010, (2020), doi: 10.11884/HPLPB202032.190390.

<http://www.hplpb.com.cn/en/article/doi/10.11884/HPLPB202032.190390>

### **A solid state, 120 kV microsecond pulse charger for a 1–10 nanosecond pulse source**

T. Huiskamp, F. J. C. M. Beckers, E. J. M. van Heesch, and A. J. M. Pemen, 19th IEEE Pulsed Power Conference (PPC), San Francisco, CA, pp. 1-6, (2013), doi: 10.1109/PPC.2013.6627617.

<https://ieeexplore.ieee.org/document/6627617>

### **Commissioning of a pulsed power corona discharge reactor for CO2 reduction**

M.S. Moss, D. Kuvshinov, R.H. Elder, and R.W.K Allen, 22nd International Symposium on Plasma Chemistry, Antwerp, Belgium, July 5-10, (2015).

<https://www.ispc-conference.org/ispcproc/ispc22/P-III-9-23.pdf>

### **Experimental and Simulation Analysis of the Jitter Response of a Single-Shot Oil Switch with a High-K Particle Suspension**

Christopher Yeckel, PhD dissertation, University of Missouri, (2012).

<https://search.proquest.com/openview/d6c3417ad33209891416be4e41fd31e8/1?pq-origsite=gscholar&cbl=18750&diss=y>

### **High voltage, step-down converter design using 20-kV silicon carbide IGBTs**

M. Hinojosa and A. Ogunniyi, 2016 IEEE International Power Modulator and High Voltage Conference (IPMHVC), San Francisco, CA, pp. 520-524, (2016), doi:

10.1109/IPMHVC.2016.8012883. <https://ieeexplore.ieee.org/document/8012883>

### **Fast Semiconductor Switching Modules for Transformer-Coupled LC Inversion Generators**

R. Bischoff, V. Brommer, M. Stoll, and S. Scharnholz, IEEE Transactions on Plasma Science, vol. 45, no. 10, pp. 2618-2622, Oct. (2017), doi: 10.1109/TPS.2017.2716833.

<https://ieeexplore.ieee.org/document/8059974>

## **Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Fiber-coupled LED gas sensor and its application to online monitoring of ecoefficient dielectric insulation gases in high-voltage circuit breakers** Axel Kramer, Daniel Over, Patrick Stoller, and Thomas A. Paul, Applied Optics, Vol. 56 (15), pp. 4505-4512, (2017), DOI: 10.1364/AO.56.004505. <https://www.osapublishing.org/ao/abstract.cfm?uri=ao-56-15-4505>

**Electro-explosive fuse optimization for FCG current sources**

David R. McCauley, Thesis, Texas Tech University, (2007).

[https://ttu-ir.tdl.org/bitstream/handle/2346/21599/McCauley\\_David\\_Thesis.pdf](https://ttu-ir.tdl.org/bitstream/handle/2346/21599/McCauley_David_Thesis.pdf)

**Enhancement of polymer membrane permeation by electroporation: Measurement of polymer cell permeability coefficient using HepG2: thermal engineering, internal combustion engine, power, etc.** Shiragashi Ryo and Sakai Yasuyuki, The Japan Society of Mechanical Engineers, Volume 67, Issue 660, (2001), 10.1299/kikaib.67.2075.

[https://www.jstage.jst.go.jp/article/kikaib1979/67/660/67\\_660\\_2075/article/-char/ja/](https://www.jstage.jst.go.jp/article/kikaib1979/67/660/67_660_2075/article/-char/ja/)

**A HIGH-VOLTAGE MONITORING SYSTEM EMPLOYED FOR EVALUATING THE METAL CONTENT OF GRANULAR MIXTURES PROCESSED IN ELECTROSTATIC SEPARATORS**

Anca Stochita, Adrian Mihalcioiu, Lucian Dascalescu, Petru V. Notingher, ATEE, (2004).

<http://elth.pub.ro/~mm/atee2004/documente/Lucrari%20PDF3,4,5/ATEE%202004%20Stochita%205.3.pdf>

**Breakdown Voltage of Thermoplastics with Clay Nanometer-Sized Fillers (Postprint)**

Brandstetter, Stephen; Drummy, Lawrence; Horwath, John; Schweickart, Daniel; Vaia, Richard, US Air Force Research Laboratory, Dayton, OH, (2008).

<https://apps.dtic.mil/dtic/tr/fulltext/u2/a503983.pdf>

**A 40 kV, 3.1/spl Omega/PFN for the Main Injector abort kicker**

C. C. Jensen, Proceedings of the 1997 Particle Accelerator Conference, Vancouver, BC, Canada, pp. 1284-1286, vol.1, (1997), doi: 10.1109/PAC.1997.750001.

<https://ieeexplore.ieee.org/document/750001>

**Optical Diagnostics for high power pulsed underwater electrical discharge characterization**

Deroy, Julien; Claverie, Alain; Avriilaud, Gilles; Boustie, Michel; Mazanchenko, E; Assous, David; Chuvatin, A., Journal of Physics: Conference Series. 500, (2014), DOI: 10.1088/1742-6596/500/14/142010.

[https://www.researchgate.net/publication/262416604\\_Optical\\_diagnostics\\_for\\_high\\_power\\_pulsed\\_underwater\\_electrical\\_discharge\\_characterization](https://www.researchgate.net/publication/262416604_Optical_diagnostics_for_high_power_pulsed_underwater_electrical_discharge_characterization)

**Prediction of residual breakdown electrical field strength of epoxy-mica paper insulation systems for the stator winding of large generators**

K. Tanaka, H. Kojima, M. Onoda, and K. Suzuki, IEEE Transactions on Dielectrics and Electrical Insulation, vol. 22, no. 2, pp. 1118-1123, April (2015), doi: 10.1109/TDEI.2015.7076813.

<https://ieeexplore.ieee.org/document/7076813>

**Technical Papers Referencing North Star High Voltage Probes/Dividers**

### **Fabrication and operation testing of an air core type high pressure pulse lance for filling the high pressure pulse forming line**

Yun-Sik, Jin et al., The Transactions of the Korean Institute of Electrical Engineers, V. 59 (5), May (2010).

[http://ocean.kisti.re.kr/downfile/volume/kiee/DHJGII/2010/v59n5/DHJGII\\_2010\\_v59n5\\_939.pdf](http://ocean.kisti.re.kr/downfile/volume/kiee/DHJGII/2010/v59n5/DHJGII_2010_v59n5_939.pdf)

### **High voltage, high power nested high voltage accelerator**

R. J. Adler and R. J. Richter-Sand, Conference Record of the 1991 IEEE Particle Accelerator Conference, San Francisco, CA, USA, pp. 3201-3203, vol.5, (1991), doi: 10.1109/PAC.1991.165234.

<https://ieeexplore.ieee.org/document/165234>

### **Advances in the development of the nested high voltage generator**

R. J. Adler and R. J. Richter-Sand, Proceedings of International Conference on Particle Accelerators, Washington, DC, USA, pp. 1306-1308, vol.2, (1993), doi:

10.1109/PAC.1993.308613. <https://ieeexplore.ieee.org/document/308613>

### **Commercial plasma source ion implantation facility**

J.T.Scheuer, K.C.Walter, R.A. Adler, and W.G.Horne, Surface and Coatings Technology, Volume 93, Issues 2–3, Pages 192-196, September (1997), DOI: 10.1016/S0257-8972(97)00043-1.

<https://www.sciencedirect.com/science/article/abs/pii/S0257897297000431>

### **Experimental observation of two microwave radiation mechanisms with widely separated frequencies during the output pulse of a high-voltage virtual cathode oscillator**

M. Haworth, et al., Appl. Phys. Lett., 59, 408, (1991), DOI: 10.1063/1.105446.

<https://aip.scitation.org/doi/abs/10.1063/1.105446>

### **Pulse Breakdown Strengths of Liquid, Gel and Solid Insulating Materials Using Closely Spaced Spherical Electrodes**

Leask, P.J., Acta Physica Polonica, Series a., 115 (6), (2009), 10.12693/APhysPolA.115.998.

[https://www.researchgate.net/publication/267687681\\_Pulse\\_Breakdown\\_Strengths\\_of\\_Liquid\\_Gel\\_and\\_Solid\\_Insulating\\_Materials\\_Using\\_Closely\\_Spaced\\_Spherical\\_Electrodes](https://www.researchgate.net/publication/267687681_Pulse_Breakdown_Strengths_of_Liquid_Gel_and_Solid_Insulating_Materials_Using_Closely_Spaced_Spherical_Electrodes)

### **Influence of high voltage atmospheric cold plasma process parameters and role of relative humidity on inactivation of Bacillus atrophaeus spores inside a sealed package**

Shruti Patil, et al., Journal of Hospital Infection, Volume 88, Issue 3, Pages 162-166, November (2014), DOI: 10.1016/j.jhin.2014.08.009.

<https://www.sciencedirect.com/science/article/abs/pii/S0195670114002710>

### **High voltage high power klystron drivers using flexible solid state IGBT modules**

R. J. Richter-Sand, R. J. Adler, and K. Rust, Conference Record of the Twenty-fourth International Power Modulator Symposium, Norfolk, VA, USA, pp. 165-170, (2000) doi: 10.1109/MODSYM.2000.896191.

<https://ieeexplore.ieee.org/document/896191>

### **Thyratron modulators in plasma source ion implantation**

R. J. Adler, J. Scheuer, and W. Horne, Digest of Technical Papers, Tenth IEEE International Pulsed Power Conference, Albuquerque, NM, USA, pp. 1243-1248, vol.2, (1995), doi: 10.1109/PPC.1995.599786.

<https://ieeexplore.ieee.org/document/599786>

### **Mechanical and chemical properties of PBIID-treated plastics**

MinehiroTonosaki, Koji Kitagawa, and Yutaka Takei, Surface and Coatings Technology, V. 156, Issues 1-3, pages 338-342, July (2002), DOI: 10.1016/S0257-8972(02)00108-1.

<https://www.sciencedirect.com/science/article/abs/pii/S0257897202001081>

### **High-Power Pulsed Corona for Treatment of Pollutants in Heterogeneous Media**, A. Pokryailo,

M. Wolf, Y. Yankelevich, S. Wald,L.R. Grabowski, E.M. van Veldhuizen, W.R. Rutgers

M. Reiser, B. Glocker, T. Eckhardt, P. Kempnaer, IEEE Transactions on Plasma Science, November 2006, DOI: 10.1109/TPS.2006.881281 .

[https://www.researchgate.net/publication/3166544\\_High-Power\\_Pulsed\\_Corona\\_for\\_Treatment\\_of\\_Pollutants\\_in\\_Heterogeneous\\_Media](https://www.researchgate.net/publication/3166544_High-Power_Pulsed_Corona_for_Treatment_of_Pollutants_in_Heterogeneous_Media)

### **Pulsed-high-voltage-supplied variable cross-section cylindrical electrostatic**

**precipitators for fly-ash particles**, Gabriel Nicolae Popaa and Lucian Dascalescu, Particulate Science And Technology 2018, VOL. 36, NO. 8, 1029 – 1036

<https://www.tandfonline.com/doi/abs/10.1080/02726351.2017.1340377?journalCode=upst20>

### **Long-lived laser-induced arc discharges for energy channeling applications** Point, G.,

Arantchouk, L., Thouin, E. et al.. Sci Rep 7, 13801 (2017). <https://doi.org/10.1038/s41598-017-14054-z>

### **A platform for exploding wires in different media**, Ruoyu Han, Jiawei Wu, Aici Qiu,

Weidong Ding, September 2017 Review of Scientific Instruments 88(10):103504, DOI:

10.1063/1.4996027 <https://aip.scitation.org/doi/10.1063/1.4996027>

### **Application of an impedance matching transformer to a plasma focus**

B. L. Bures, C. James, M. Krishna, and R. Adler

Review of Scientific Instruments 82, 103506 (2011); <https://doi.org/10.1063/1.3648117>

<https://aip.scitation.org/doi/abs/10.1063/1.3648117?journalCode=rsi>

## **Technical Papers Referencing North Star High Voltage Probes/Dividers**

**Experimental verification of the vaporization's contribution to the shock waves generated by underwater** Ruoyu Han, Haibin Zhou, Jiawei Wu, Thomas Clayson, Hang Ren, Jian Wu, Yongmin Zhang, and Aici Qiu, May 2017 Physics of Plasmas 24(6):063511, DOI: 10.1063/1.4985301 <https://aip.scitation.org/doi/10.1063/1.4985301>

**Plasma Discharge in Water**

Yong Yang, Alexander Fridman, Young I.Cho, Advances in Heat Transfer  
Volume 42, 2010, Pages 179-292, [https://doi.org/10.1016/S0065-2717\(10\)42003-1](https://doi.org/10.1016/S0065-2717(10)42003-1)  
<https://www.sciencedirect.com/science/article/pii/S0065271710420031>

**A High-Voltage Test Bed for the Evaluation of High-Voltage Dividers for Pulsed Applications**

Miguel Cerqueira Bastos, Maria Hammarquist, and Anders Bergman  
IEEE Transactions On Instrumentation And Measurement, Vol. 60, No. 7, July 2011,  
<https://ieeexplore.ieee.org/abstract/document/5682402/citations#citations>

**Experimental study on an alternative oil stimulation technique for tight gas reservoirs based on dynamic shock waves generated by Pulsed Arc Electrohydraulic Discharges**

Wen Chen, Olivier Maurel, Thierry Reess, Antoine Silvestre De Ferron, Christian La Borderie, Gilles Pijaudier-Cabot, Franck Rey-Bethbeder, AntoineJacques, Journal of Petroleum Science and Engineering, Volumes 88 – 89, June 2012, Pages 67-74,  
<https://doi.org/10.1016/j.petrol.2012.01.009>

**Direct observation of vacuum arc evolution with nanosecond resolution**

Zhipeng Zhou, Andreas Kyritsakis, Zhenxing Wang November 2019 Scientific Reports 9(1)  
DOI: 10.1038/s41598-019-44191-6t