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ACCEPTED CONTRIBUTIONS (PRELIMINARY)

Oral (180 documents)

**Electron temperature and density measurements in GTAW and GMAW processes by thomson scattering***Marina Kühn-Kauffeldt, J.-L. Marquès, Jochen Schein*

fulltext : Oral

M. Measurement Techniques

sciencesconf.org/gd2014:35817**Optical diagnostics of discharging progress of short gap vacuum diode under long pulse operation***Xin-Bing Cheng, Jin-Liang Liu, Jian-Hua Yang*

fulltext : Oral

J. Test Techniques and Diagnostics

sciencesconf.org/gd2014:35645**A radial insulated vacuum diode guiding by a strong magnetic field***Jian-Hua Yang, Jun Zhang, Zhen-Xing Jin, Xin-Bing Cheng*

fulltext : Oral

G. Pulsed-Power Application

sciencesconf.org/gd2014:35638**Fundamentals of Atmospheric Pressure RF Modulated DBD***Jean-Sébastien Boisvert, Joëlle Margot, Françoise Massines*

fulltext : Oral

B. Corona, Barrier and Surface Discharges

sciencesconf.org/gd2014:28800**Experimental Investigation of CF3I-CO2 Gas Mixtures under Lightning Impulses***Muhammad Kamarudin, A. Haddad, S.J. MacGregor*

fulltext : Oral

C. Glows and Breakdown

sciencesconf.org/gd2014:28798**Xe-Ar and Ar plasma discharges in a small Hall Effect thruster: Electric and optic diagnostic***Fatou DIOP, Titaina GIBERT, André Bouchoule*

fulltext : Oral

E. Low Pressure Plasmas and Applications

sciencesconf.org/gd2014:28763**Time resolved study of the HiPIMS post-discharge***Stéphane Cuynet, Maria Palmucci, Amael Caillard, Thomas Lecas, Anne Lise Thomann, Pascal Brault, J. Bigarré, P. Buvat*

fulltext : Oral

E. Low Pressure Plasmas and Applications

sciencesconf.org/gd2014:28750**Plasma-aided gasification of biomass***Pablo Escot Bocanegra, Jean-Marie Cormier*

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014:28744**Experimental study of an electrical discharge at atmospheric pressure***Nuno CERQUEIRA, Sotheara CHUON*

fulltext : Oral

M. Measurement Techniques

sciencesconf.org/gd2014:28743



Electric spark discharge in air characterization by following electrodes erosion

Stéphane PELLERIN, Stéphane BERNARD, Philippe GILLARD, Dragos-George ASTANEI

fulltext : Oral

J. Test Techniques and Diagnostics

sciencesconf.org/gd2014/28740



Influence of active shielding gas on the MIG-MAG welding process: globular to spray transfer mode

Quentin CASTILLON, Valensi Flavien, Stéphane PELLERIN, Nadia PELLERIN, Krzysztof Dzierzega, François Faubert, Francis BRIAND, Jean-Pierre PLANCKAERT

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014/28739



Comparative study of laser induced breakdown in argon using optical emission spectroscopy and Thomson scattering

ALI FARAH SOUGUEH, AGATA Mendys, TOMEK PIETA, KRZYSZTOF DZIERZEGA, STEPHANE PELLERIN, Joerg Hermann

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014/28737



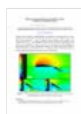
Plasma volume and energy influences on the combustion efficiency using a new spark-plug

Dragos ASTANEI, François Faubert, Stéphane PELLERIN, Bogdan Hnatiuc, Eugen Hnatiuc, Nuno Cerqueira

fulltext : Oral

G. Pulsed-Power Application

sciencesconf.org/gd2014/28736



Effects of corona discharges on Turbulent Air flow: Simulation on a high-lift system.

Mehalaine Kocella, Semmar Djaffar

fulltext : Oral

B. Corona, Barrier and Surface Discharges

sciencesconf.org/gd2014/28731



Interrupter size effect on current zero properties in thermal interruption of high voltage circuit breakers

Toshiaki Sakuyama, Hajime Urai, Hideyuki Kotsuji, Noriyuki Yaginuma, Masanori Tsukushi

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014/28726



Complex Plasmoid Behaviors in Dusty Plasma Experiments

Maxime Mikikian, Hagop Tawidian, Thomas Lecas

fulltext : Oral

E. Low Pressure Plasmas and Applications

sciencesconf.org/gd2014/28708



Experimental investigation of short-time arc propagation recorded by high speed camera

Bernd Schottel, Tobias Kopp, Tobias Runge, Michael Kurrat

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014/28707



MODULATION OF IONIZATION FRONT PROPAGATION VELOCITY IN A μ S PLASMA GUN HELIUM DISCHARGE WITH NITROGEN ADMIXTURE

Thibault Darny, Eric Robert, Sebastien Dozias, Jean-Michel Pouvesle

fulltext : Oral

F. Environmental and Medical Applications

sciencesconf.org/gd2014/28682



Effects of arc current modulation on dominant oscillations in plasma jet

Jan Gruber, Jan Hlina, Jiří Šonky

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014/28678



Pulsed DBD-Catalyst Hybrid Reactor for Environmental Clean-Up: VOCs Oxidation in Air at Low Temperature

Thien PHAM HUU, Malgorzata ADAMOWSKA, Patrick DA COSTA, Jean Marie CORMIER, Ahmed Khacef

fulltext : Oral

F. Environmental and Medical Applications

sciencesconf.org/gd2014/28671



Plasma-Assisted Diesel Oxidation Catalyst: Improvement of Light-Off Temperature for CO and Unburned Hydrocarbons

Alexis LERAY, Maxime MAKAROV, Jean Marie CORMIER, Ahmed Khacef

fulltext : Oral

F. Environmental and Medical Applications

sciencesconf.org/gd2014/28670



Gas Chemistry related to the operation of MicroHollow Cathode Discharges

Valentin Felix, Judith Golda, Philippe Lefaucheux, Lawrence Overzet, Volker Schulz-von der Gathen, Olivier Aubry, Rémi Dussart

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014/28669



An ARGON COLLISIONAL-RADIATIVE MODEL APPLICATION TO HOLLOW-CATHODE

Su-Rong Sun, Hai-Xing Wang

fulltext : Oral

K. Fundamental Processes and Cross-Sections

sciencesconf.org/gd2014/28657



Two-Temperature Chemical-Nonequilibrium Modelling of the Plasma Flow in a Low-Power Hydrogen Arcjet Thruster

Wei-Ping Sun, Hai-Xing Wang

fulltext : Oral

E. Low Pressure Plasmas and Applications

sciencesconf.org/gd2014/28656



SURFACE TREATMENT OF POLYMER PARTICLES USING A CONTINUOUS ATMOSPHERIC PLASMA PROCESS: EFFECTS ON HYDROPHILIC NATURE AND SURFACE CHEMISTRY

Mary Gilliam, Susan Farhat, Ali Zand, Barrack Stubbs, Michael Magyar, Graham Garner

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014/28650



The Effect of an Obstacle in the Ablation Plasma on the Electrical Properties of the Oxide Thin Films

Florin Gherendi, Magdalena Nistor, Nicolae Mandache

fulltext : Oral

E. Low Pressure Plasmas and Applications

sciencesconf.org/gd2014/28637



Optical diagnostics of decay processes of Ar/SF₆ gas blast arcs confined by a nozzle

Kentaro Tomita, Daisuke Gojima, Kazuhiko Nagai, Takahiro Shimizu, Kiichiro Uchino, Yasunori Tanaka, Katsumi Suzuki, Takanori Iijima, Toshiyuki Uchii, Takeshi Shinkai

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014/28616



PREDICTION OF PRESSURE RISE BUILD-UP IN A SELF-BLAST HIGH VOLTAGE CIRCUIT BREAKER USING CFD SIMULATION

Changho Yeo, Jae Joon Chae, Jinho Kim

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014/28611



Ozone production by corona discharge using a hollow needle-plate electrode system

Francisco Pontiga, Kouider Hadji, M'hamed Guemou, Khelifa Yanallah, Agustín Fernández-Rueda, Helena Moreno

fulltext : Oral

B. Corona, Barrier and Surface Discharges

sciencesconf.org/gd2014/28610



O atoms density measurements in a capillary nanosecond discharge: measurement techniques and kinetic modeling

Andrei Klochko, Nikolai Popov, Arthur SALMON, Jean-Paul Booth, Svetlana Starikovskaya

fulltext : Oral

E. Low Pressure Plasmas and Applications

sciencesconf.org/gd2014/28609



Spatial characterization of a Capacitively Coupled Plasma in argon at low pressure with double Langmuir probe and Optical Emission Spectroscopy diagnostics

Christopher Laurent, Juslan Lo, Bruno Caillier, Laurent Therese, Philippe Guillot

fulltext : Oral

J. Test Techniques and Diagnostics

sciencesconf.org/gd2014/28607



Characterization of an atmospheric DBD plasma jet with optical emission and mass spectrometers

Laura Chauvet, Bruno Caillier, Laurent Therese, Philippe Guillot, Cristina Muja

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014/28606



Modification of the shock wave shape of a supersonic low Reynolds number flow field around a cylinder by a glow discharge in air

Romain Jousot, Viviana Lago, Jean-Denis Parisse

fulltext : Oral

E. Low Pressure Plasmas and Applications

sciencesconf.org/gd2014/28605



Discharge morphology and spectral diagnostic of a serrated DBD plasma actuator dedicated to aerodynamic flow control applications

Kévin Chatelain, Romain Jousot, Annie Leroy, Viviana Lago, Hervé Rabat, Dunpin Hong

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014/28604



Electrical Discharge in Supercritical Methanol

Sergey Leonov
fulltext : Oral
D. High Pressure Plasmas and Applications
sciencesconf.org/gd2014:28601



SYNTHESIS OF (B-C-N) NANOMATERIALS BY ARC DISCHARGE

gourari djamel eddine, Manitra Razafinimanana, Marc Monthieux, Arenal Raul, Valensi Flavien, Joulié Sébastien, Serin virginie
fulltext : Oral
L. Emerging and Topical Applications of Gas Discharges
sciencesconf.org/gd2014:28600



Visualisation of nanosecond surface dielectric barrier discharge at high pressures

Sergey Stepanyan, Svetlana Starikovskaia, Nikolai Popov
fulltext : Oral
D. High Pressure Plasmas and Applications
sciencesconf.org/gd2014:28599



Spectroscopic study and High speed imaging of a transient arc

Pascal RATOVOSON, Manitra Razafinimanana, Flavien Valensi
fulltext : Oral
A. Arcs
sciencesconf.org/gd2014:28598



Basic Research in Plasma Medicine: Support for the Transfer into Clinics

Kai Masur, Sybille Hasse, Kristian Wende, Thomas von Woedtke, Hans-Robert Metelmann, Klaus-Dieter Weltmann
fulltext : Oral
F. Environmental and Medical Applications
sciencesconf.org/gd2014:28594



Study on Premixed Combustion Enhancement with Dielectric Barrier Discharge

Lin Yu, Haibao Mu, Ping Li, Sixiang Zhao, chenglong Tang, Jinghua Wang, Guanjun Zhang
fulltext : Oral
D. High Pressure Plasmas and Applications
sciencesconf.org/gd2014:28591



Experimental Study on Concurrent Flashover Phenomena of Two Parallel Long Air Gaps

Daiki Tanaka, Toru Miki, Megumu Miki
fulltext : Oral
C. Glows and Breakdown
sciencesconf.org/gd2014:28590



Nanosecond Pulsed Dielectric Barrier Discharges Applied to Electrostatic Precipitation

Arthur Claude ABA'A NDONG, Noureddine ZOUZOU, Eric MOREAU
fulltext : Oral
G. Pulsed-Power Application
sciencesconf.org/gd2014:28587



Effects of Gas Pressure and Ambience on Surface Barrier Discharge along PVDF Film

Haibao Mu, Guoqiang Su, Sixiang Zhao, Guanjun Zhang, Yifan Liao, Ruihai Li
fulltext : Oral
B. Corona, Barrier and Surface Discharges
sciencesconf.org/gd2014:28586



Performance of plasma closing switches filled with air, nitrogen and a nitrogen/oxygen mixture

Michael Hogg, Igor Timoshkin, Scott MacGregor, Martin Given, Mark Wilson, T Wang
fulltext : Oral
G. Pulsed-Power Application
sciencesconf.org/gd2014:28585



Investigation of Active Species in Atmospheric-pressure Argon Plasma-jet

Kazuhiro Takahashi, Kohki Satoh, Hidenori Itoh
fulltext : Oral
B. Corona, Barrier and Surface Discharges
sciencesconf.org/gd2014:28584



Production of Ammonia in a Packed-Bed Dielectric Barrier Discharge

Anthony Murphy, Jungmi Hong, Steven Prawer
fulltext : Oral
L. Emerging and Topical Applications of Gas Discharges
sciencesconf.org/gd2014:28580



A Computational Model of MIG Welding: Effects of Metal Vapour, and Mixing of Wire and Workpiece Alloys

Anthony Murphy
fulltext : Oral
A. Arcs
sciencesconf.org/gd2014:28579



Formation of vibrational distribution function of electronically-excited N₂(A₃S) molecules in nitrogen discharge plasma

Nikolay Popov

fulltext : Oral

K. Fundamental Processes and Cross-Sections

[sciencesconf.org/gd2014:28578](https://sciencesconf.org/gd2014/28578)



Quenching Performance of Air Arc Discharge

Yuta Okano, Yuki Goto, Eiji Kaneko, Masaki Fuchikami

fulltext : Oral

A. Arcs

[sciencesconf.org/gd2014:28576](https://sciencesconf.org/gd2014/28576)



Research on the Breaking Characteristics of Non-equilibrium Arc with Small Current for SF₆ High Voltage Circuit Breaker

Yalong XIA, ZHIBING LI, JIANYING ZHONG, XIN LIN, JIANYUAN XU

fulltext : Oral

A. Arcs

[sciencesconf.org/gd2014:28575](https://sciencesconf.org/gd2014/28575)



Propagated velocity of surface discharge in Ne/Xe mixtures

Sho Okada, Hideki Ueno

fulltext : Oral

B. Corona, Barrier and Surface Discharges

[sciencesconf.org/gd2014:28574](https://sciencesconf.org/gd2014/28574)



Discharge effect on the chemical kinetics of negative temperature coefficient in propane-air mixture

Elena Filimonova, Valentin Bityurin

fulltext : Oral

K. Fundamental Processes and Cross-Sections

[sciencesconf.org/gd2014:28573](https://sciencesconf.org/gd2014/28573)



ARC JETS BLOWN BY OUTGASSING POLYMERS IN AIR

Marley Becerra, Andreas Friberg

fulltext : Oral

A. Arcs

[sciencesconf.org/gd2014:28572](https://sciencesconf.org/gd2014/28572)



Diagnostics of oxygen low-pressure RF plasma suitable for treatment of sensitive surfaces

Nikola Skoro, Kosta Spasic, Nevena Puac, Gordana Malovic, Zoran Petrovic

fulltext : Oral

E. Low Pressure Plasmas and Applications

[sciencesconf.org/gd2014:28570](https://sciencesconf.org/gd2014/28570)



Laminar versus turbulent flow of an argon RF APPJ investigated by OH PLIF and its influence on the discharge propagation

Sylvain Iseni, Ansgar Schmidt Bleker, Jörn Winter, Klaus-Dieter Weltmann, Stephan Reuter

fulltext : Oral

F. Environmental and Medical Applications

[sciencesconf.org/gd2014:28568](https://sciencesconf.org/gd2014/28568)



INVESTIGATION OF PLASMA-INDUCED METHYLENE BLUE DEGRADATION USING DIELECTRIC BARRIER DISCHARGE

yi yi zhao, Tao Wang, Scott MacGregor, Mark Wilson, Martin Given

fulltext : Oral

F. Environmental and Medical Applications

[sciencesconf.org/gd2014:28567](https://sciencesconf.org/gd2014/28567)



Time-resolved mass spectrometry of positive ions and ICCD imaging of atmospheric pressure plasma jet

Nenad Selakovic, Nevena Puac, Gordana Malovic, Zoran Lj. Petrovic

fulltext : Oral

D. High Pressure Plasmas and Applications

[sciencesconf.org/gd2014:28566](https://sciencesconf.org/gd2014/28566)



Using an emissive probe to measure time-averaged plasma potential in a Hall thruster discharge

Aude PETIN, Julien Vaudolon, Stéphane Mazouffre, Pavel Kudrna, Milan Tichý

fulltext : Oral

M. Measurement Techniques

[sciencesconf.org/gd2014:28565](https://sciencesconf.org/gd2014/28565)



Spectroscopic observation of diatomic molecules in plasmas generated by non-transferred electric arcs

Alan Maslani, Viktor Sember

fulltext : Oral

A. Arcs

[sciencesconf.org/gd2014:28562](https://sciencesconf.org/gd2014/28562)



Electrical Discharges on the Condensable Hydrocarbons Under the Influence of DC Voltage: An Experimental Approach

Saravanakumar Arumugam, Philipp Schröder, York Neubauer, Sergey Gorchakov, Klaus-Dieter Weltmann, Thomas Schoenemann

fulltext : Oral

J. Test Techniques and Diagnostics

[sciencesconf.org/gd2014:28558](https://sciencesconf.org/gd2014/28558)



Recent developments in nanosecond pulsed sliding discharge for airflow control.

Kossi Bayoda, Nicolas Benard, Eric Moreau

fulltext : Oral

B. Corona, Barrier and Surface Discharges
sciencesconf.org/gd2014/28555



Hydrophobic Modification of Polyethylene Terephthalate Surface using Nanosecond-Pulse DBD at Atmospheric Pressure

Cheng Zhang, Tao Shao, Jiayu Xu, Ping Yan

fulltext : Oral

B. Corona, Barrier and Surface Discharges
sciencesconf.org/gd2014/28549



NANOSECOND PULSE SURFACE IONIZATION WAVE DISCHARGES OVER SOLID AND LIQUID DIELECTRIC SURFACES

Vitaly Petrishev, Sergey Leonov, Igor Adamovich

fulltext : Oral

B. Corona, Barrier and Surface Discharges
sciencesconf.org/gd2014/28543



Biocompatibility and Wear Properties of Polymer Coatings Created with Atmospheric Pressure Plasma

Susan Farhat, Mary Gilliam, Ali Zand, Cheryl Samaniego, Montserrat Rabago-Smith

fulltext : Oral

F. Environmental and Medical Applications
sciencesconf.org/gd2014/28539



Determination of absolute atomic hydrogen densities by Two-Photon Absorption Laser Induced Fluorescence in a H₂/CH₄ Microwave Plasma at High Pressure and High Microwave Power

Maxime Wartel, Corinne Duluard, Xavier Aubert, Cathy Rond, Alix Gicquel

fulltext : Oral

M. Measurement Techniques
sciencesconf.org/gd2014/28532



Vacuum Pulse Breakdown Ignition in a Gap with High-Current-Density Cathode

Anatoliy Taran, Oleksandr Kyslytsyn, Andriy Okhrimovskyy, Daria Oranska

fulltext : Oral

C. Glows and Breakdown
sciencesconf.org/gd2014/28515



Effects of radiation trapping in a free-burning arc Ar plasma

Sergey Gorchakov, Margarita Baeva, Yurii Golubovskii, Dmitry Kalanov, Dirk Uhrlandt, Thomas Schoenemann

fulltext : Oral

A. Arcs
sciencesconf.org/gd2014/28513



Monte Carlo simulation of radio-frequency breakdown in argon

Marija Savic, Marija Radmilović-Radjenović, Milovan Šuvakov, Dragana Marić, Zoran Lj. Petrović

fulltext : Oral

C. Glows and Breakdown
sciencesconf.org/gd2014/28511



Effects of Rise Rate of Voltage Impulses on Oxygen-fed Dielectric Barrier Discharge

Guangming Huang, tao wang, Igor Timoshkin, Scott MacGregor, Martin Given, Mark Wilson

fulltext : Oral

B. Corona, Barrier and Surface Discharges
sciencesconf.org/gd2014/28510



2D MODELING OF ELECTRO-HYDRODYNAMICS AND CHEMICAL KINETIC OF DRY AND HUMID AIR FLOW ACTIVATED BY CORONA DISCHARGES

Olivier Eichwald, Jean-Philippe SARRETTE, Olivier Ducasse, Mohammed Youfii

fulltext : Oral

F. Environmental and Medical Applications
sciencesconf.org/gd2014/28509



Infrared imaging of dry-band failure of silicone-rubber insulators

Maurizio Albano, Panagiotis Charalampidis, Huw Griffiths, A. Manu Haddad, Ronald Waters

fulltext : Oral

B. Corona, Barrier and Surface Discharges
sciencesconf.org/gd2014/28506



3D TESTS OF POISSON EQUATION SOLVERS FOR STREAMER SIMULATION

Olivier Ducasse, Olivier Eichwald, Philippe Dessante, Renon Nicolas, Mohammed Youfii

fulltext : Oral

B. Corona, Barrier and Surface Discharges
sciencesconf.org/gd2014/28505



Investigations on Switching Arcs in CO₂ by Time-Resolved Optical Emission Spectroscopy and CFD Simulations

Paul Gregor Nikolic, Daniel Eichhoff, Ruslan Kozakov, Dirk Uhrlandt, Armin Schnettler

fulltext : Oral

A. Arcs
sciencesconf.org/gd2014/28502



Effect of Secondary Electron Emission Coefficient on Townsend's Second Ionization Coefficient
Haruaki Akashi, Tomokazu Yoshinaga

fulltext : Oral
K. Fundamental Processes and Cross-Sections
sciencesconf.org/gd2014:28501



Polarity effect on breakdown phenomenon across micrometer-scale surface gap in atmospheric air
Hiroyuki Iwabuchi, Shigeyasu Matsuoka, Akiko Kumada, Kunihiro Hidaka

fulltext : Oral
C. Glows and Breakdown
sciencesconf.org/gd2014:28498



Streamer Inception E-field Criterion under Positive Lightning Impulse Voltage Considering Voltage Rise Rate
Yinan GENG, Chijie ZHUANG, She Chen, Rong Zeng

fulltext : Oral
B. Corona, Barrier and Surface Discharges
sciencesconf.org/gd2014:28492



Bipolar Ions Extraction from Dielectric Barrier Discharge
Rémi Mathon, Nicolas Jidenko, J-P Borra

fulltext : Oral
B. Corona, Barrier and Surface Discharges
sciencesconf.org/gd2014:28391



Correlation between the Discharge Regime and Heat Generation in a Surface DBD Plasma Actuator
Rakshit Tirumala, Nicolas Benard, Eric Moreau, Matthieu FENOT, Gildas LALIZEL, Eva DORIGNAC

fulltext : Oral
B. Corona, Barrier and Surface Discharges
sciencesconf.org/gd2014:28380



CORONA DISCHARGE USED AS AN ION SOURCE FOR AEROSOL CHARGING
Assia BOUAROURI

fulltext : Oral
B. Corona, Barrier and Surface Discharges
sciencesconf.org/gd2014:28346



Study of a high current arc used for direct lightning effect characterization
clement zaepffel, Rafael SOUSA MARTINS, Laurent Chemartin, Philippe Lalande

fulltext : Oral
I. Lightning
sciencesconf.org/gd2014:28316



Oscillating movement in N₂/CH₄ dusty RF plasmas

Jean-François Lagrange, Isabelle Géraud-Grenier, François Faubert, Véronique Massereau-Guilbaud
fulltext : Oral
E. Low Pressure Plasmas and Applications
sciencesconf.org/gd2014:28234



Investigations on the Spatial Arc Resistance Distribution of an Axially Blown Switching Arc
Michael Weuffel, Paul Gregor Nikolic, Armin Schnettler

fulltext : Oral
A. Arcs
sciencesconf.org/gd2014:28232



Spark Discharge in Water for the Generation of Mechanical Motion
Nathaniel Taylor, Gregory Fridman, Alexander Fridman, Danil Dobrynin

fulltext : Oral
G. Pulsed-Power Application
sciencesconf.org/gd2014:28223



Arc fault in enclosure volumes: CFD simulations and experimental tests on representative simple geometries
Piero Pontelandolfo, Davide Greco, Laurent Felberbaum, Ghalib Thwapih, Roberto Putzu

fulltext : Oral
A. Arcs
sciencesconf.org/gd2014:28148



Investigation of H₂/CH₄ and H₂/CH₄/B₂H₆ high pressure-high power microwave plasma chemistry using IR-TDLAS

Cathy Rond, Stephan Hamann, Maxime Wartel, Guillaume Lombardi, Khaled Hassouni, Alix Gicquel, Jurgen Röpcke
fulltext : Oral
D. High Pressure Plasmas and Applications
sciencesconf.org/gd2014:28139



Simulation analysis of the electrode-arc interaction in free-burning arcs
Margarita Baeva, Sergey Gorchakov, Dirk Uhrlandt, Klaus-Dieter Weltmann

fulltext : Oral
A. Arcs
sciencesconf.org/gd2014:28105



Spectroscopic study of the transition stage in fuse wire

Alain Coulbois, Pascal André, William Bussière, David Rochette, Jean-Louis Gelet

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:28008



In situ DRIFT analysis coupled to non thermal plasma at atmospheric pressure on the decomposition of volatile organic compounds

Elodie Fourré, Anthony Rodrigues, Jean-Michel Tatibouët

fulltext : Oral

B. Corona, Barrier and Surface Discharges

sciencesconf.org/gd2014:27981



Investigations on the Interaction between Switching Arc and Quenching Gas in Insulating Nozzles by Optical Measurements

Paul Gregor Nikolic, Artur Mühlbeier, Patrick Stoller, Armin Schnettler

fulltext : Oral

J. Test Techniques and Diagnostics

sciencesconf.org/gd2014:27950



Investigations on the Thermal Interruption Capability of CO₂ in Nozzle Systems with Two Heating Channels

Paul Gregor Nikolic, Michael Weuffel, Armin Schnettler

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27948



Modeling Nozzle Geometry changes Due to the Ablation in High-Voltage Circuit Breakers

Sina Arabi, Jean-Yves Trepanier, Ricardo Camarero, Vassilev Assen

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014:27947



Time Domain reflectometry measurement and analysis

soualmia achour, abdelguerfi meriem

fulltext : Oral

M. Measurement Techniques

sciencesconf.org/gd2014:27889



Swarm Parameter Measurements of c-C₄F₈O in buffer gases

Christian M. Franck, Dominik A. Dahl, Mohamed Rabie, Pascal Häfliger

fulltext : Oral

K. Fundamental Processes and Cross-Sections

sciencesconf.org/gd2014:27864



Influence of Arc Energy Absorbers on the Enclosure Effect in Case of Internal Arcing in Electrical Installations

Sebastian Wetzeler, Kittipong Anantavanich, Gerhard Pietsch

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014:27817



Influence of Insulation Gas on Pressure Rise in Electrical Installations due to Internal Arcs

Sebastian Wetzeler, Yann Cressault, Gerhard Pietsch

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014:27816



Cloud Formation during High Current Arcs in Air

Elin Fjeld, Svein Thore Hagen, Dag Bjerketvedt

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27753



Glow Discharge Spectrometries for Ultra Fast Depth Profile Characterization of Materials

patrick chapon, Sébastien Legendre, Célia Olivero, Agnès Tempez

fulltext : Oral

E. Low Pressure Plasmas and Applications

sciencesconf.org/gd2014:27729



Eukaryotic cells as biomarkers for plasma-generated reactive species

Sander Bekeschus, Kai Masur, Hasse Sybille, Klaus-Dieter Weltmann

fulltext : Oral

F. Environmental and Medical Applications

sciencesconf.org/gd2014:27721



PIC-MC Simulations for Microplasmapropagation in parallel Multi Cavity Arrangements at Atmospheric Pressure Conditions

Michael Hilbert, Michael Siemers, Andreas Pflug, Michael Kurrat

fulltext : Oral

K. Fundamental Processes and Cross-Sections

sciencesconf.org/gd2014:27643



Comparison of metal erosion characteristics due to arc in Air and SF6

Motohiro Sato, Katsuhiko Horinouchi, Daisuke Yoshida

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27639



Designing a High Resolution Microcontroller-based Electrostatic Probe System for Plasma Characterization

Spyridon Aleiferis, Panagiotis Svarnas

fulltext : Oral

M. Measurement Techniques

sciencesconf.org/gd2014:27635



Quantitative determination of density of ground state atomic oxygen from both TALIF and emission spectroscopy in hot air plasma generated by microwave resonant cavity

Mohammed Yousofi, Frédéric Marchal, Gaëtan WATTIEAUX, Nofel Merbahi, Alain Piquemal

fulltext : Oral

J. Test Techniques and Diagnostics

sciencesconf.org/gd2014:27627



Analysis of the Valves Effect on the Gas Flow Field and Arcing Process in a Self-blast Circuit Breaker

Li Xingwen, JIANG Xu, Qian Wang

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27626



Comparative Investigation of Creeping Discharge Characteristics at Wavefront of Pulse Voltage in SF6/N2 and CO2/N2 Gas Mixtures

Hideki Ueno, Ryota Tanaka, Yuta Shimizu, Yuya Amakawa, Hiroaki Shimada, Sho Okada

fulltext : Oral

B. Corona, Barrier and Surface Discharges

sciencesconf.org/gd2014:27624



Experimental study on characteristics of CO2 and its gas mixtures with SF6 for high voltage gas circuit breakers

Li Xingwen, ZHU Kai, JIANG Xu, Zhao Hu, Jia Shenli, ZHONG Jianying

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27607



Study on critical breakdown electric field strength of different SF6-N2 and SF6-CF4 mixtures at gas temperatures up to 3000 K

Li Xingwen, Zhao Hu, MURPHY Anthony B., Jia Shenli

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27606



Distribution Voltage of Insulators Measuring Using Tungsten Needle Electrodes

Mingxi Zhu, ChenLong Zhao, Hongwei Mei, Zhicheng Guan, Liming Wang

fulltext : Oral

M. Measurement Techniques

sciencesconf.org/gd2014:27600



Radiative properties in High Voltage Circuit Breakers Arc Plasma: Validity of mixture laws for SF6/C2F4 mixtures and impact of copper on Net Emission Coefficients.

Loïc HERMETTE

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27561



Investigation of charged gas instability in 2D model of lightning discharge

Oleg Kravchenko, Vladislav PUSTOVOIT

fulltext : Oral

I. Lightning

sciencesconf.org/gd2014:27552



Determination of electric conductivity of hot argon gas using a high-frequency high-voltage generator

Carsten Leu, Matthias Birle, Stefan Gossel, Frank Reichert

fulltext : Oral

M. Measurement Techniques

sciencesconf.org/gd2014:27529



Numerical Study on Self-excited Oscillation Switching Current in HVDC MRTB

Yang Li, Mingzhe Rong, Chunping Niu, Yi Wu, Mei Li, Fei Yang

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27528



Experimental study on leader characteristics in atmospheric air using a Mach-Zehnder interferometer

Xuan Zhou, Rong Zeng, She Chen

fulltext : Oral

M. Measurement Techniques

sciencesconf.org/gd2014:27524



Hybrid Radiofrequency/Arc Plasma Jet for Generation of Singlet Oxygen

Josef Schmiedberger, Jan Gregor, Miroslav Čenský, Vít Jirásek, Karel Rohlena, Anna Vodičková

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27522



Integrated Modeling Environment “Virtual Discharge” for Gas Discharge Study

Sergey Stepanov, Alexey Shishkin

fulltext : Oral

J. Test Techniques and Diagnostics

sciencesconf.org/gd2014:27519



Optical emission characteristics of guided streamers generated in helium and argon mixtures with N₂ and O₂

Kristaq Gazeli, Panagiotis Svarnas, Franck Clément

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014:27517



Study of Dual Frequency RF and RF/DC Plasma Discharges Used for Surface Treatment

Sergey Stepanov, Alexey Shishkin

fulltext : Oral

E. Low Pressure Plasmas and Applications

sciencesconf.org/gd2014:27516



Discharge phenomena at partially damaged dielectric electrode coatings in SF₆-insulated systems at AC and DC stress

Philipp Arnold, Stefan Tenbohlen, Uwe Riechert, Maria Hering, Ulrich Straumann, Wolfgang Köhler

fulltext : Oral

B. Corona, Barrier and Surface Discharges

sciencesconf.org/gd2014:27514



Interruption Capability of an Auto-expansion Circuit Breaker with Different Arc Duration

Yuqing Pei, J D Yan

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27512



An Experimental Investigation of Nozzle Arcs under Turbulent Conditions

Fei Yang

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27511



INTERACTION MODEL BETWEEN AN ELECTRICAL ARC AND A MATERIAL: WELDING TIG APPLICATION

Jonathan Mougnot, Jean-Jacques Gonzalez, Pierre Freton, Mathieu Masquère

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014:27510



The snapshot of nanosecond development of high power microwave vacuum window breakdown

Chao Chang, M Zhu, C.H. Chen, M.N. Guo, J.C. Peng, S Li, Z.F. Xiong

fulltext : Oral

E. Low Pressure Plasmas and Applications

sciencesconf.org/gd2014:27508



Active Optical Diagnostics of a ‘current-zero-like’ arc in air in a model gas circuit breaker geometry

Emmanouil Panousis, Patrick Stoller, Jan Carstensen, Michael Schwinne

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27507



Two-Dimensional Electron Density Imaging for SF₆ Arc Interruption Phenomenon Using Shack-Hartmann Type Laser Wavefront Sensor

Yuki Inada, Tomoki Kamiya, Shigeyasu Matsuoka, Akiko Kumada, Hisatoshi Ikeda, Kunihiko Hidaka

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27506



Dielectric Properties of Hot SF₆ Gaseous Mixture under Chemically Non-equilibrium Condition

Weizong Wang, Mingzhe Rong, Jiudun Yan, J W Spencer

fulltext : Oral

C. Glows and Breakdown

sciencesconf.org/gd2014:27504



Ball Lightning: An Assessment of the Known Physical Features and a Suggested Mathematical Model

James Jones

fulltext : Oral

B. Corona, Barrier and Surface Discharges

sciencesconf.org/gd2014:27503



Two Temperature Plasma Properties of Ablated PTFE Vapour Used for Pulsed Plasma Thrusters

Weizong Wang, Li Meng, Xin Tu

fulltext : Oral

K. Fundamental Processes and Cross-Sections

sciencesconf.org/gd2014:27502



Controlling inception and breakdown characteristics in pulsed dielectric barrier discharges with variable pulse width - influence of the pre-phase

Hans Höft, Manfred Kettlitz, Markus Becker, Tomas Hoder, Klaus-Dieter Weltmann, Ronny Brandenburg

fulltext : Oral

B. Corona, Barrier and Surface Discharges

sciencesconf.org/gd2014:27498



Improved modeling of ablation process in high-voltage circuit breakers for switching arc simulation

Arkadz Petchanka, Frank Reichert, Pierre Freton, Jean-Jacques Gonzalez

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27492



Ignition of Combustible Mixtures by Nanosecond Surface Dielectric Barrier Discharge

Nickolay Aleksandrov, Eugene Anokhin, Svetlana Kindysheva, Dmitry Kuzmenko, Ilya Kosarev, Victor Soloviev

fulltext : Oral

L. Emerging and Topical Applications of Gas Discharges

sciencesconf.org/gd2014:27489



BASIC DATA OF Ar⁺ AND Ar²⁺ IONS IN ARGON GAS NEEDED TO OPTIMIZE LOW TEMPERATURE PLASMA JETS FOR BIOMEDICAL USES

Alexandre Chicheportiche, Florent Xavier Gadea, Malika Benhenni, Bruno Lepetit, Mohammed Yousfi, René Kalus

fulltext : Oral

K. Fundamental Processes and Cross-Sections

sciencesconf.org/gd2014:27487



Ignition in Ethanol-Containing Mixtures after High-Voltage Nanosecond Discharge

Nickolay Aleksandrov, Ilya Kosarev, Svetlana Kindysheva, Andrey Starikovskii

fulltext : Oral

L. Emerging and Topical Applications of Gas Discharges

sciencesconf.org/gd2014:27485



A hybrid circuit breaker based on two-stage commutation

Yifei Wu, Mingzhe Rong, Hongfei Zhao, Chungping Niu, Mei Li, Yang Hu, Zhuo Yang

fulltext : Oral

C. Glows and Breakdown

sciencesconf.org/gd2014:27484



MHD modeling of AC fault arc in a closed air container

Mei Li, Hongfei Zhao, Mingzhe Rong, Yi Wu, Yifei Wu, Chao Hou, Fei Yang

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27481



A comparative study of K-epsilon turbulence model in Air DC circuit breaker

Mingliang Wu, Mingzhe Rong, Fei Yang, Yi Wu, Jianzhong Zhu, Chungping Niu

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27480



Experimental quantification of ultraviolet radiations and biocide active species in microwave argon plasma jet in open air

Gaëtan WATTIEAUX, Mohammed Yousfi, Nofel Merbahi, Marie-Pierre Castanié-Cornet

fulltext : Oral

F. Environmental and Medical Applications

sciencesconf.org/gd2014:27477



Application of non-thermal plasma technology for developing fast SCR system to remove NO_x

Lin Syuan Hong

fulltext : Oral

F. Environmental and Medical Applications

sciencesconf.org/gd2014:27474



Suspension phased-injection in self-sustained pulsed arc jet.

Joanna Krowka, Vincent Rat, Jean-Francois Coudert, Christophe Chazelas

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27471



Computational Investigation of Effects of SF₆, CO₂ and N₂ on Arc Interruption in a Supersonic Nozzle

Jinling Zhang

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27467



Removal of Phenol (C₆H₅OH) from Gas Streams with Plasma Catalysis

Pan Kuan Lun

fulltext : Oral

F. Environmental and Medical Applications

sciencesconf.org/gd2014:27466



Study on similarity of glow discharge at low pressure by numerical simulation

Yangyang FU

fulltext : Oral

C. Glows and Breakdown

sciencesconf.org/gd2014:27461



Analysis of Insulating Characteristics of SF₆ and CF₃I from the Point of View of Microscopic Features

Juntao Jiao, Dengming XIAO, Jianguo JIANG, Songlin QIN

fulltext : Oral

K. Fundamental Processes and Cross-Sections

sciencesconf.org/gd2014:27453



Gas dynamical model of linear lightning discharge

Anatoli AnikyeV

fulltext : Oral

I. Lightning

sciencesconf.org/gd2014:27451



Empirical Model for Quasi Direct Current Interruption with a Convuluted Arc

Leonid Shpanin, Gordon Jones, Jim Humphries, Joe Spencer, Noel Shammass, Sarath Tennakoon

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27450



Calculation of Electron Swarm Parameters of c-C₄F₈/N₂ Mixtures Using an Improved Monte Carlo Collision Simulation Method

Lou Yuehuan, Xiao Dengming, Qin Songlin, Jiang Jianguo

fulltext : Oral

K. Fundamental Processes and Cross-Sections

sciencesconf.org/gd2014:27447



Overview on gas discharge occurring in air insulated metal enclosed switchgear

Hongmei LI, Dongxian TAN, Yunkun Deng, Dengming XIAO, Jianguo JIANG

fulltext : Oral

B. Corona, Barrier and Surface Discharges

sciencesconf.org/gd2014:27437



Electron drift, diffusion, and effective ionization coefficients in SF₆-CHF₃ and SF₆-CF₄ mixtures from Boltzmann analysis

Linsheng Wei, Dingkun Yuan, Yafang Zhang, Guopan Dong

fulltext : Oral

K. Fundamental Processes and Cross-Sections

sciencesconf.org/gd2014:27434



Predominant particles in SF₆-Cu mixture at temperatures of 300-50,000 K

Linlin Zhong, Xiaohua Wang, Aijun Yang, Dingxin Liu, Yi Wu, Mingzhe Rong

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27431



Gas-liquid Interfacial Discharge with a Porous Glass Membrane

TATSUYA SAKODA

fulltext : Oral

F. Environmental and Medical Applications

sciencesconf.org/gd2014:27430



Reactive Species Delivery in Atmospheric He+O₂ Cold Plasma

Aijun Yang, Dingxin Liu, Xiaohua Wang, Mingzhe Rong

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014:27429



Analysis of Partial Discharge Signals with Higher Dimension Chromaticity

Ali Al-Temeemy, Gordon Jones, Mohamed Ragaa, Cuthbert NYAMUPANGEDENGU, Anthony Deakin, Joe Spencer

fulltext : Oral

J. Test Techniques and Diagnostics

sciencesconf.org/gd2014:27428



Experimental observation of two types of streamer region ahead of leader in long air gap discharge

S. Chen, R. Zeng, C. J. Zhuang, X. Zhou, Y. J. Ding

fulltext : Oral

C. Glows and Breakdown

sciencesconf.org/gd2014:27427



High Pressure Gas Discharge Devices Application for Fuel Processing

Alexandr Ustimenko, VLADIMIR MESSERLE, Oleg Lavrichshev

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014:27376



High Pressure Plasma Torch

Alexandr Ustimenko, VLADIMIR MESSERLE, Valeri USHANOV

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014:27374



Plasma spectroscopy of runaway electron preionized diffuse discharges

Mikhail Lomaev, Dmitry Sorokin, Victor Tarasenko

fulltext : Oral

D. High Pressure Plasmas and Applications

sciencesconf.org/gd2014:27370



Lipid A removal by a reduced pressure nitrogen afterglow

Hayat ZERROUKI, Virginie RIZZATI, Corinne BERNIS, Jean-Philippe SARRETTE, Sarah COUSTY, Anne NEGRE-SALVAYRE

fulltext : Oral

F. Environmental and Medical Applications

sciencesconf.org/gd2014:27364



CO₂ ARC BEHAVIOR DURING CURRENT INTERRUPTION PROCESS IN A GAS CIRCUIT BREAKER WITH EXTERNALLY APPLIED MAGNETIC FIELD

Toshihiko Takematsu, Satoshi Hirayama, Takayasu Fujino, Motoo Ishikawa, Satoï Ogawa, Tadashi Mori

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27362



Experimental Evaluation of Fraction k_p of Electrical Energy Contributing to Pressure rise due to Air and SF₆ arc in a Closed Container

Masashi Kotari, Tomo Tadokoro, Shinichi Tanaka, Mikimasa Iwata, Tadashi Amakawa

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27361



Propagation Characteristics of PD-induced UHF Signal in GIS with Three-Phase Construction

Tianhui Li, Mingzhe Rong, Dingxin Liu, Xiaohua Wang

fulltext : Oral

J. Test Techniques and Diagnostics

sciencesconf.org/gd2014:27360



Numerical approach to pressure rise due to short-circuit fault arc in the metal-clad switchgears

Mikimasa Iwata, Tsukasa Miyagi, Yutaka Goda, Yuko Suzuki, Koji Shirai

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27359



Electrostatic Probe and Laser Photodetachment Measurements in the Hydrogen Negative Ion (H⁻) Source "Prometheus I"

Spyridon Aleiferis, Panagiotis Svarnas, Ioannis Tsiroudís, Stéphane Béchu, Ana Lacoste, Marthe Bacal

fulltext : Oral

E. Low Pressure Plasmas and Applications

sciencesconf.org/gd2014:27348



Effects of Nozzle Geometry on SF₆ Arc Thermal Interruption

Quan Zhang, Joseph Yan, Michael Fang

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27347



Characterisation, performance and stability of a glow discharge as a source of electrons for portable mass spectrometry

achouak chalkha, Aurika Janulyte, Yves Zerega, Boris Brkić, Steve Taylor, Jacques Andre

fulltext : Oral

C. Glows and Breakdown

sciencesconf.org/gd2014:27342



CFD based Multi-Physics Simulation of Compressible Flow through Nozzle of SF₆ Gas Circuit Breaker

Sumedh Pawar, Atul Sharma

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27338



AIR ARCS BURNING IN TURBULENT ROUND JET

Jian Liu, quan Zhang, Joseph Yan, Michael Fang

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27307



A diffuse nanosecond discharge for generation of reactive species in atmospheric air

Alexis Chollet, Pascal Jeanney, Pierre Tardiveau, Stephane Pasquier

fulltext : Oral

B. Corona, Barrier and Surface Discharges

sciencesconf.org/gd2014:27296



Using Plasma Simulation as a Smart Controller of Microwave Discharge Devices for Material Processing

Yasuyoshi Yasaka, Rie Taniguchi, Kazuhiro Kobayashi

fulltext : Oral

E. Low Pressure Plasmas and Applications

sciencesconf.org/gd2014:27248



Lighting impulse discharge characteristic of composite insulator developed for applying in 3500m altitude

Dongxian TAN, Hongmei LI, Yunkun Deng, Dengming XIAO

fulltext : Oral

B. Corona, Barrier and Surface Discharges

sciencesconf.org/gd2014:27244



ON THE TRANSITION FROM POSITIVE GLOW CORONA TO STREAMERS IN AIR

Lipeng Liu, Marley Becerra

fulltext : Oral

B. Corona, Barrier and Surface Discharges

sciencesconf.org/gd2014:27241



High accuracy characterization of wall constricted arcs

Christian M. Franck, Michael M. Walter

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27233



Influence of copper vapours on the radiative transfer in thermal air plasma

Petr Kloc, Vladimir Aubrecht, Oldrich Coufal, Milada Bartlova

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27214



BREAKDOWN CHARACTERISTICS OF PLASMA CLOSING SWITCHES FILLED WITH DIFFERENT GASES

Caron McGarvey, Igor Timoshkin, Scott MacGregor, Mark Wilson, Martin Given, Mark Sinclair

fulltext : Oral

G. Pulsed-Power Application

sciencesconf.org/gd2014:27162



THE INFLUENCE OF WATER PERMEABILITY AND WATER ABSORPTION ON RTV SILICONE RUBBER

Can Chen, Qiang Xie, Hongwei Wang, Liang'an Yao, Zhidong Jia

fulltext : Oral

B. Corona, Barrier and Surface Discharges

sciencesconf.org/gd2014:27154



Quasi-Monochrome Light Polarization Study in Binary Electropositive- Electronegative Gas Mixture

catalina ciobotaru, ION GRUIA, CAMELIA GAVRILA

fulltext : Oral

K. Fundamental Processes and Cross-Sections

sciencesconf.org/gd2014:27093



Spallation Occurrence Control by Mixing Phthalate Esters in Polyamide Material for Polymer Ablation Assisted Circuit Breakers

Tomoyuki Nakano, Yasunori Tanaka, Yousuke Goto, Hideo Horibe, Ishijima Tatsuo, Uesugi Yoshihiko

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27062



Numerical Simulation on Two-Temperature Chemically Non-Equilibrium States in Decaying SF₆ Arcs after Application of Recovery Voltage

Yasunori Tanaka, Katsumi Suzuki

fulltext : Oral

A. Arcs

sciencesconf.org/gd2014:27061



Design of a simplified ion-flux probe for plasmas free of insulating deposits

Vasilios Dimitris Karaventzas, Panagiotis Svarnas

fulltext : Oral

J. Test Techniques and Diagnostics

sciencesconf.org/gd2014:26883



Electron Swarm Parameters in Binary Gas Mixtures of CF₃I with Xe, He, N₂ and CO₂ from Boltzmann Equation Analysis

Yunkun DENG, Dengming XIAO, Jianguo JIANG, Songlin QIN, Lili ZHU

fulltext : Oral

E. Low Pressure Plasmas and Applications

sciencesconf.org/gd2014:26494



Study on Shed Cracks of Composite Insulators Used at 750kV AC lines in Strong Wind Area
Xilin Wang, Zhenquan Zhang, mingliang Zhong, Fu Hao, zhengyi Zhu, zhidong Jia, Zhicheng Guan

fulltext : Oral
B. Corona, Barrier and Surface Discharges
sciencesconf.org/gd2014:26317



Experimental study of the ozone produced by a plasma actuator using surface dielectric barrier discharge
Hervé Rabat, Jean-Marc Bauchire, Moo-Been Chang, Dunpin Hong

fulltext : Oral
B. Corona, Barrier and Surface Discharges
sciencesconf.org/gd2014:26142



Ne-like Ar Soft X-ray Laser Pumped by Capillary Discharge with Different Current Pulses
Yongpeng zhao, Yujie Ding, Shan Jiang, Huaiyu Cui, Tao Liu, Qi Wang

fulltext : Oral
H. Light Sources
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