

# Tao Shao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

209  
papers

4,491  
citations

36  
h-index

55  
g-index

249  
ext. papers

5,865  
ext. citations

3.5  
avg, IF

5.93  
L-index

#	Paper	IF	Citations
209	Experimental study on the treatment of oil-based drill cutting by pulsed dielectric barrier discharge plasma at atmospheric pressure. <i>Journal of Cleaner Production</i> , <b>2022</b> , 339, 130757	10.3	4
208	Linking trap to G10 surface flashover in liquid nitrogen under DC voltage. <i>Cryogenics</i> , <b>2022</b> , 122, 103423	1.8	2
207	Compositional and crystallographic design of Ni-Co phosphide heterointerfaced nanowires for high-rate, stable hydrogen generation at industry-relevant electrolysis current densities. <i>Nano Energy</i> , <b>2022</b> , 95, 106989	17.1	4
206	COx-free co-cracking of n-decane and CH4 to hydrogen and acetylene using pulsed spark plasma. <i>Chemical Engineering Journal</i> , <b>2022</b> , 436, 135190	14.7	1
205	In-package plasma: From reactive chemistry to innovative food preservation technologies. <i>Trends in Food Science and Technology</i> , <b>2022</b> , 120, 59-74	15.3	2
204	Effect of Reactive Chemical Species on the Degradation of Deoxynivalenol, 3-Acetyldeoxynivalenol, and 15-Acetyldeoxynivalenol in Low-Temperature Plasmas. <i>ACS Food Science &amp; Technology</i> , <b>2022</b> , 2, 558-567		1
203	Degradation of Sulfamethoxazole by Double Cylindrical Dielectric Barrier Discharge System combined with Ti /C-N-TiO2 supported Nanocatalyst. <i>Journal of Hazardous Materials Advances</i> , <b>2022</b> , 5, 100051		0
202	Breakdown and Flashover Properties of Cryogenic Liquid Fuel for Superconducting Energy Pipeline. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2022</b> , 32, 1-7	1.8	
201	Optical emission spectroscopy measurement of plasma parameters in a nanosecond pulsed spark discharge for CO/CH dry reforming. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 267, 120590	4.4	1
200	Liquid-phase methane bubble plasma discharge for heavy oil processing: Insights into free radicals-induced hydrogenation. <i>Energy Conversion and Management</i> , <b>2021</b> , 250, 114896	10.6	2
199	Plasma Surface Treatment of Al2O3-Filled Epoxy Resin for Accelerating Surface Charge Dissipation <b>2021</b> , 499-523		
198	Temporal evolution of electron energy distribution function and its correlation with hydrogen radical generation in atmospheric-pressure methane needle-plane discharge plasmas. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 095202	3	5
197	Low-temperature plasma polymerized fluorocarbon coating promotes surface charge dissipation in polystyrene. <i>Nanotechnology</i> , <b>2021</b> , 32, 125703	3.4	5
196	Ionization waves in nanosecond pulsed atmospheric pressure plasma jets in argon. <i>High Voltage</i> , <b>2021</b> , 6, 665-673	4.1	15
195	Facile synthesis of nitrogen-doped and boron-doped reduced graphene oxide using radio-frequency plasma for supercapacitors. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 265501	3	2
194	Influence of segmented grounding electrodes on electrical characteristics in annular surface dielectric barrier discharge. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 265203	3	1
193	Reconstruction of energy spectrum of runaway electrons in nanosecond-pulse discharges in atmospheric air. <i>Plasma Science and Technology</i> , <b>2021</b> , 23, 064011	1.5	4

192	Charge transfer in plasma assisted dry reforming of methane using a nanosecond pulsed packed-bed reactor discharge. <i>Plasma Science and Technology</i> , <b>2021</b> , 23, 064007	1.5	8
191	Strategies of Power Measurement and Energy Coupling Enhancement in Nanosecond Pulsed Coaxial Dielectric Barrier Discharges. <i>IEEE Transactions on Plasma Science</i> , <b>2021</b> , 49, 1605-1613	1.3	4
190	Efficient Nitrogen Fixation to Ammonia through Integration of Plasma Oxidation with Electrocatalytic Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 14131-14137	16.4	56
189	Efficient Nitrogen Fixation to Ammonia through Integration of Plasma Oxidation with Electrocatalytic Reduction. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 14250-14256	3.6	15
188	Numerical verification of the two-spike-current behavior in the initial stage of plasma formation in a pulsed surface dielectric barrier discharge. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 345201	3	1
187	Coupling bimetallic Ni-Fe catalysts and nanosecond pulsed plasma for synergistic low-temperature CO <sub>2</sub> methanation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 127693	14.7	19
186	Depositing chromium oxide film on alumina ceramics enhances the surface flashover performance in vacuum via PECVD. <i>Surface and Coatings Technology</i> , <b>2021</b> , 405, 126509	4.4	5
185	Removal of Pharmaceutical Residues from Water and Wastewater Using Dielectric Barrier Discharge Methods-A Review. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	17
184	Nano-sized composite improving the insulating performance of insulating paper using low-temperature plasmas. <i>Nanotechnology</i> , <b>2021</b> , 32, 185704	3.4	5
183	About the possible source of seed electrons initiating the very first breakdown in a DBD operating with the air at atmospheric pressure. <i>Plasma Sources Science and Technology</i> , <b>2021</b> , 30, 025008	3.5	3
182	Liquefied Natural Gas for Superconducting Energy Pipelines: A Feasibility Study on Electrical Insulation. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 13930-13936	4.1	2
181	Reaction mechanism in non-thermal plasma enabled methane conversion: correlation between optical emission spectroscopy and gaseous products. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 424002 <sup>3</sup>		1
180	Focused Plasma- and Pure Water-Enabled, Electrode-Emerged Nanointerfaced NiCo Hydroxide-Oxide for Robust Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 45566-45577	9.5	6
179	A critical review on ozone and co-species, generation and reaction mechanisms in plasma induced by dielectric barrier discharge technologies for wastewater remediation. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105758	6.8	10
178	Revealing the active sites of the structured Ni-based catalysts for one-step CO <sub>2</sub> /CH <sub>4</sub> conversion into oxygenates by plasma-catalysis. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2021</b> , 52, 101675	7.6	4
177	Temperature-independent, nonoxidative methane conversion in nanosecond repetitively pulsed DBD plasma. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 787-800	5.8	7
176	Two-Phase-Interfaced, Graded-Permittivity Titania Electrical Insulation by Atmospheric Pressure Plasmas.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	7
175	Atmospheric-pressure plasma jet deposition of bumpy coating improves polypropylene surface flashover performance in vacuum. <i>Surface and Coatings Technology</i> , <b>2020</b> , 387, 125511	4.4	15

174	Effect of Dielectric Barrier Discharge (DBD) Treatment on the Dielectric Properties of Poly(vinylidene fluoride)(PVDF)-Based Copolymer. <i>Polymers</i> , <b>2020</b> , 12,	4.5	1
173	Phase-Resolved Measurement of Atmospheric-Pressure Radio-Frequency Pulsed Discharges in Ar/CH <sub>4</sub> /CO <sub>2</sub> Mixture. <i>Plasma Chemistry and Plasma Processing</i> , <b>2020</b> , 40, 937-953	3.6	8
172	Effects of TiO <sub>2</sub> nanoparticles and electrodes surface-modified by low-temperature plasma on impulse breakdown voltage of propylene carbonate. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 442-449	2.3	7
171	Surface ionization wave propagation in the nanosecond pulsed surface dielectric barrier discharge: the influence of dielectric material and pulse repetition rate. <i>Plasma Sources Science and Technology</i> , <b>2020</b> , 29, 044001	3.5	43
170	Energy pooling mechanism for catalyst-free methane activation in nanosecond pulsed non-thermal plasmas. <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125185	14.7	23
169	Nano-BN encapsulated micro-AlN as fillers for epoxy composites with high thermal conductivity and sufficient dielectric breakdown strength. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 528-534	2.3	18
168	Deposition of SiO <sub>2</sub> and TiO <sub>2</sub> Films on Electrode Materials to Suppress Space Charge Injection. <i>IEEE Transactions on Plasma Science</i> , <b>2020</b> , 48, 3895-3904	1.3	5
167	Trap distribution of polymeric materials and its effect on surface flashover in vacuum. <i>Plasma Science and Technology</i> , <b>2020</b> , 22, 044002	1.5	11
166	Enhanced surface insulating performance for polystyrene by atmospheric pressure plasma jet deposition. <i>Applied Surface Science</i> , <b>2020</b> , 527, 146826	6.7	9
165	Effect of surface modification of electrodes on charge injection and dielectric characteristics of propylene carbonate. <i>High Voltage</i> , <b>2020</b> , 5, 15-23	4.1	15
164	Surface charge decay of epoxy resin treated by AP-DBD deposition and direct fluorination. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 768-775	2.3	1
163	Atmospheric pressure plasmas and direct fluorination treatment of Al <sub>2</sub> O <sub>3</sub> -filled epoxy resin: A comparison of surface charge dissipation. <i>Surface and Coatings Technology</i> , <b>2019</b> , 362, 1-11	4.4	31
162	The effects of the tube diameter on the discharge ignition and the plasma properties of atmospheric-pressure microplasma confined inside capillary. <i>Plasma Processes and Polymers</i> , <b>2019</b> , 16, 1800176	3.4	7
161	Non-oxidative methane conversion in diffuse, filamentary, and spark regimes of nanosecond repetitively pulsed discharge with negative polarity. <i>Plasma Processes and Polymers</i> , <b>2019</b> , 16, 1900050	3.4	22
160	Guest Editorial Special Issue for Plenary, Invited, and Selected Papers From the 2018 Asia-Pacific Conference on Plasma and Terahertz Science. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 1885-1886	1.3	
159	Effect of cathode and anode materials on the high-energy electron beam in the nanosecond-pulse breakdown in gas-filled diodes. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 275202	3	10
158	Effect of cold plasma on blueberry juice quality. <i>Food Chemistry</i> , <b>2019</b> , 290, 79-86	8.5	71
157	Characteristics of N <sub>2</sub> /O <sub>2</sub> reaction in spark gap switch: The effect of high-current pulsed arc. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 492-500	2.3	2

156	Effect of rise time on nanosecond pulsed surface dielectric barrier discharge actuator. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 346-352	2.3	7
155	Nanosecond pulsed plasma assisted dry reforming of CH <sub>4</sub> : The effect of plasma operating parameters. <i>Applied Energy</i> , <b>2019</b> , 243, 132-144	10.7	64
154	Plasma jet printing for preparation of N-doped graphene electrode. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 8944-8954	2.1	4
153	Measurement of optical spectrum and mass spectrum in vacuum surface flashover for polymeric materials. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 593-600	2.3	2
152	Self-heating effect on stability of a nanosecond pulsed DBD interacting with heptane and methyl-naphthalene as heavy oil model compounds. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 431-438	2.3	3
151	Aging characteristics of polymeric materials by repeated surface flashovers in vacuum under microsecond pulse. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 171-178	2.3	12
150	The dynamics of discharge propagation and x-ray generation in nanosecond pulsed fast ionisation wave in 5 mbar nitrogen. <i>Plasma Sources Science and Technology</i> , <b>2019</b> , 28, 095001	3.5	14
149	Plasma bullet propagation and reflection from metallic and dielectric targets. <i>Plasma Sources Science and Technology</i> , <b>2019</b> , 28, 095006	3.5	23
148	The Effect of Accumulated Charges and Fluid Dynamics on the Helium Plasma Jet Array Behavior. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 4861-4867	1.3	8
147	Surface charge decay of epoxy resin treated by AP-DBD deposition and direct fluorination. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 768-775	2.3	13
146	A Nanosecond Pulsed Generator With Fast-Solid-State Switch for Synchronous Discharge in Plasma Synthetic Jet Actuators. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 1901-1908	1.3	5
145	Atmospheric-pressure pulsed plasma actuators for flow control: shock wave and vortex characteristics. <i>Plasma Sources Science and Technology</i> , <b>2019</b> , 28, 064001	3.5	34
144	Preparation and Properties of Polystyrene Deposited with TiN Film Using Atmospheric-Pressure Plasma Jet <b>2019</b> ,		1
143	Nanosecond pulsed uniform dielectric barrier discharge in atmospheric air: A brief spectroscopic analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 207, 294-300	4.4	9
142	Effect of dielectric and conductive targets on plasma jet behaviour and thin film properties. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 074002	3	14
141	Spatial and Temporal Evolution of a Radial Plasma Jet Array and Its Interaction with Material. <i>Plasma Chemistry and Plasma Processing</i> , <b>2019</b> , 39, 187-203	3.6	16
140	Propagation of Ionization Waves in Nanosecond-Pulse Dielectric Barrier Discharge in Atmospheric Air. <i>IEEE Transactions on Plasma Science</i> , <b>2018</b> , 46, 1943-1950	1.3	5
139	Deposition of SiC <sub>x</sub> HyO <sub>z</sub> thin film on epoxy resin by nanosecond pulsed APPJ for improving the surface insulating performance. <i>Plasma Science and Technology</i> , <b>2018</b> , 20, 025504	1.5	26

138	Two Typical Charge Transportation Characteristics in Nanosecond-Pulse Surface Dielectric Barrier Discharge. <i>IEEE Transactions on Plasma Science</i> , <b>2018</b> , 46, 3524-3530	1.3	8
137	Atmospheric-pressure pulsed discharges and plasmas: mechanism, characteristics and applications. <i>High Voltage</i> , <b>2018</b> , 3, 14-20	4.1	143
136	Surface modifications of polystyrene and their stability: A comparison of DBD plasma deposition and direct fluorination. <i>Applied Surface Science</i> , <b>2018</b> , 459, 300-308	6.7	36
135	Improvement of $\beta$ phase crystal formation in a BaTiO <sub>3</sub> -modified PVDF membrane. <i>Plasma Science and Technology</i> , <b>2018</b> , 20, 065510	1.5	6
134	Deposition of SiO <sub>x</sub> film on electrode surface by DBD to improve the lift-off voltage of metal particles. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 1285-1292	2.3	16
133	Correlation between surface charge and DC surface flashover of plasma treated epoxy resin. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 1267-1274	2.3	44
132	Interaction of argon and helium plasma jets and jets arrays with account for gravity. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 063507	2.1	13
131	Highly efficient conversion of methane using microsecond and nanosecond pulsed spark discharges. <i>Applied Energy</i> , <b>2018</b> , 226, 534-545	10.7	62
130	Plasma surface treatment of Cu by nanosecond-pulse diffuse discharges in atmospheric air. <i>Plasma Science and Technology</i> , <b>2018</b> , 20, 014011	1.5	16
129	Poly(vinylidene fluoride)/Plasma-Treated BaTiO <sub>3</sub> Nanocomposites with Enhanced Electroactive Phase. <i>Macromolecular Research</i> , <b>2018</b> , 26, 965-972	1.9	7
128	Effects of nanosecond pulse voltage parameters on characteristics of surface charge for epoxy resin. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 2058-2066	2.3	14
127	Polymer Dielectrics: A Scalable, High-Throughput, and Environmentally Benign Approach to Polymer Dielectrics Exhibiting Significantly Improved Capacitive Performance at High Temperatures (Adv. Mater. 49/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870378	24	2
126	The synergistic effects of the micro-BN and nano-Al <sub>2</sub> O <sub>3</sub> in micro-nano composites on enhancing the thermal conductivity for insulating epoxy resin. <i>Composites Science and Technology</i> , <b>2018</b> , 168, 420-428	8.6	83
125	A Scalable, High-Throughput, and Environmentally Benign Approach to Polymer Dielectrics Exhibiting Significantly Improved Capacitive Performance at High Temperatures. <i>Advanced Materials</i> , <b>2018</b> , 30, e1805672	24	145
124	Measurement of runaway electron beam current in nanosecond-pulse discharges by a Faraday cup. <i>Laser and Particle Beams</i> , <b>2018</b> , 36, 369-375	0.9	2
123	Time-resolved characteristics and chemical kinetics of non-oxidative methane conversion in repetitively pulsed dielectric barrier discharge plasmas. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 274005	3	22
122	X-ray radiation and runaway electron beams generated during discharges in atmospheric-pressure air at rise times of voltage pulse of 500 and 50 ns. <i>Laser and Particle Beams</i> , <b>2018</b> , 36, 186-194	0.9	7
121	Thin insulating film deposition on copper by atmospheric-pressure plasmas. <i>Plasma Processes and Polymers</i> , <b>2017</b> , 14, 1600248	3.4	17

120	Influence of Oxygen Content on Argon/Oxygen Dielectric Barrier Discharge Plasma Treatment of Polyethylene Terephthalate Film. <i>IEEE Transactions on Plasma Science</i> , <b>2017</b> , 45, 310-317	1.3	15
119	Uniformity optimization and dynamic studies of plasma jet array interaction in argon. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 093507	2.1	42
118	Factors influencing the discharge mode for microsecond-pulse gliding discharges at atmospheric pressure. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 2148-2156	2.3	8
117	Influence of electrode spacing and gas pressure on parameters of a runaway electron beam generating during the nanosecond breakdown in SF6 and nitrogen. <i>High Voltage</i> , <b>2017</b> , 2, 49-55	4.1	9
116	The role of fast electrons in diffuse discharge formation: Monte Carlo simulation. <i>Plasma Sources Science and Technology</i> , <b>2017</b> , 26, 085008	3.5	34
115	Plasma surface treatment to improve surface charge accumulation and dissipation of epoxy resin exposed to DC and nanosecond-pulse voltages. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 405203	3	68
114	The influences of the electrode dimension and the dielectric material on the breakdown characteristics of coplanar dielectric barrier discharge in ambient air. <i>Plasma Processes and Polymers</i> , <b>2017</b> , 14, 1700112	3.4	8
113	Electrical and optical characteristics of surface plasma actuator based on a three-electrode geometry excited by nanosecond-pulse and DC sources. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 123503	2.1	14
112	A pulsed generator for synchronous discharges of high-energy plasma synthetic jet actuators. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 2076-2084	2.3	8
111	Surface modification of epoxy using an atmospheric pressure dielectric barrier discharge to accelerate surface charge dissipation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 1557-1565	2.3	103
110	Review of supershort avalanche electron beam during nanosecond-pulse discharges in some gases. <i>Matter and Radiation at Extremes</i> , <b>2017</b> , 2, 105-116	4.7	5
109	Inorganic nanofilms for surface charge control on polymer surfaces by atmospheric-pressure plasma deposition. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 233302	2.5	22
108	Surface morphology and flashover performance of epoxy resin in SF6 after discharge aging. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 3395-3404	2.3	8
107	Study on Surface Properties of Polyamide 66 Using Atmospheric Glow-Like Discharge Plasma Treatment. <i>Coatings</i> , <b>2017</b> , 7, 123	2.9	21
106	Aging characteristics of epoxy resin discharged by very fast transient overvoltage in SF6. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 1178-1188	2.3	16
105	Experimental Study on Sound Characteristics Produced by DC Corona and Pulsed Discharges. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 2196-2203	1.3	7
104	Hydrophobic surface modification of epoxy resin using an atmospheric pressure plasma jet array. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 2288-2293	2.3	44
103	Electrical Characteristics in Surface Dielectric Barrier Discharge Driven by Microsecond Pulses. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 2772-2778	1.3	20

102	Optical and illuminant characteristics of microsecond-pulse diffuse discharges in a point-to-point gap <b>2016</b> ,		2
101	Guest Editorial Special Issue on Atmospheric Pressure Plasmas and Their Applications. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 2527-2527	1.3	
100	Characteristics of microsecond-pulse surface flashover on epoxy resin surfaces in SF6. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 2328-2336	2.3	18
99	Aging Characteristics on Epoxy Resin Surface Under Repetitive Microsecond Pulses in Air at Atmospheric Pressure. <i>Plasma Science and Technology</i> , <b>2016</b> , 18, 325-330	1.5	18
98	Discharge processes and an electrical model of atmospheric pressure plasma jets in argon. <i>European Physical Journal D</i> , <b>2016</b> , 70, 1	1.3	14
97	Effect of pulse polarity on the temporal and spatial emission of an atmospheric pressure helium plasma jet. <i>Plasma Sources Science and Technology</i> , <b>2016</b> , 25, 015020	3.5	31
96	Two discharge modes in an atmospheric pressure plasma jet array in argon. <i>Plasma Sources Science and Technology</i> , <b>2016</b> , 25, 01LT01	3.5	43
95	Dynamics of Plasma Bullets in a Microsecond-Pulse-Driven Atmospheric-Pressure He Plasma Jet. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 393-397	1.3	23
94	Comparison between helium and argon plasma jets on improving the hydrophilic property of PMMA surface. <i>Applied Surface Science</i> , <b>2016</b> , 367, 401-406	6.7	68
93	Supershort avalanche electron beam in SF6 and krypton. <i>Physical Review Accelerators and Beams</i> , <b>2016</b> , 19,	1.8	13
92	Simulation of runaway electron inception and breakdown in nanosecond pulse gas discharges. <i>Laser and Particle Beams</i> , <b>2016</b> , 34, 43-52	0.9	10
91	Improvement of Spatial Uniformity of Nanosecond-Pulse Diffuse Discharges in a Multi-Needle-to-Plane Gap. <i>Plasma Science and Technology</i> , <b>2016</b> , 18, 230-235	1.5	15
90	Modification of copper surface by runaway electrons preionized diffuse discharges at atmospheric pressure. <i>Laser and Particle Beams</i> , <b>2016</b> , 34, 202-209	0.9	5
89	A Compact Microsecond-Pulse Generator Used for Surface Dielectric Barrier Discharges. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 2072-2078	1.3	18
88	Guest Editorial Special Issue on Plenary and Invited Papers From ICOPS-BEAMS 2015. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 345-346	1.3	
87	Influences of oxygen content on characteristics of atmospheric pressure dielectric barrier discharge in argon/oxygen mixtures. <i>European Physical Journal D</i> , <b>2016</b> , 70, 1	1.3	10
86	Bent paths of a positive streamer and a cathode-directed spark leader in diffuse discharges preionized by runaway electrons. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 033511	2.1	11
85	Surface modification of polymethyl-methacrylate using atmospheric pressure argon plasma jets to improve surface flashover performance in vacuum. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 1747-1754	2.3	70



84	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 1907-1915	2.3	27
83	Surface modification of LDPE film by nanosecond-pulse dielectric barrier discharge at atmospheric pressure <b>2015</b> ,		1
82	Comparison of Atmospheric-Pressure He and Ar Plasma Jets Driven by Microsecond Pulses. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 726-732	1.3	48
81	Temporal and spatial profiles of emission intensities in atmospheric pressure helium plasma jet driven by microsecond pulse: Experiment and simulation. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 123303	2.5	17
80	A comparison between spectra of runaway electron beams in SF6 and air. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 123516	2.1	9
79	Microsecond pulse driven Ar/CF4 plasma jet for polymethylmethacrylate surface modification at atmospheric pressure. <i>Applied Surface Science</i> , <b>2015</b> , 328, 509-515	6.7	68
78	Hydrophobic treatment on polymethylmethacrylate surface by nanosecond-pulse DBDs in CF4 at atmospheric pressure. <i>Applied Surface Science</i> , <b>2014</b> , 311, 468-477	6.7	60
77	Nanosecond-pulse gliding discharges between point-to-point electrodes in open air. <i>Plasma Sources Science and Technology</i> , <b>2014</b> , 23, 035004	3.5	34
76	Temporal evolution of atmosphere pressure plasma jets driven by microsecond pulses with positive and negative polarities. <i>Europhysics Letters</i> , <b>2014</b> , 107, 65004	1.6	27
75	Comparison of $\mu$ s- and ns-Pulse Gliding Discharges in Air Flow. <i>IEEE Transactions on Plasma Science</i> , <b>2014</b> , 42, 2354-2355	1.3	5
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73	Coaxial Diffuse Discharges Driven by Repetitive Nanosecond Pulses at Different Air Pressures. <i>IEEE Transactions on Plasma Science</i> , <b>2014</b> , 42, 2378-2379	1.3	2
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71	Spots on electrodes and images of a gap during pulsed discharges in an inhomogeneous electric field at elevated pressures of air, nitrogen and argon. <i>Plasma Sources Science and Technology</i> , <b>2014</b> , 23, 054018	3.5	18
70	Anode and Cathode Spots in High-Voltage Nanosecond-Pulse Discharge Initiated by Runaway Electrons in Air. <i>Chinese Physics Letters</i> , <b>2014</b> , 31, 085201	1.8	2
69	A Cascaded Microsecond-Pulse Generator for Discharge Applications. <i>IEEE Transactions on Plasma Science</i> , <b>2014</b> , 42, 1721-1728	1.3	25
68	A comparison between characteristics of atmospheric-pressure plasma jets sustained by nanosecond- and microsecond-pulse generators in helium. <i>Physics of Plasmas</i> , <b>2014</b> , 21, 103505	2.1	19
67	A microsecond generator based on pulse transformer and its discharge applications <b>2014</b> ,		1

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65	Study of flow fields induced by surface dielectric barrier discharge actuator in low-pressure air. <i>Physics of Plasmas</i> , <b>2014</b> , 21, 043508	2.1	16
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63	Generation of super-short avalanche electron beams in SF <sub>6</sub> . <i>Laser and Particle Beams</i> , <b>2014</b> , 32, 331-341	0.9	20
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61	Nanosecond-pulse diffuse discharges at atmospheric pressure. <i>Chinese Science Bulletin</i> , <b>2014</b> , 59, 1919-1926	2.6	4
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59	Application of dynamic displacement current for diagnostics of subnanosecond breakdowns in an inhomogeneous electric field. <i>Review of Scientific Instruments</i> , <b>2013</b> , 84, 053506	1.7	39
58	Surface Treatment of Polyethylene Terephthalate to Improving Hydrophilicity Using Atmospheric Pressure Plasma Jet. <i>IEEE Transactions on Plasma Science</i> , <b>2013</b> , 41, 1627-1634	1.3	58
57	A Comparative Study of Water Electrodes Versus Metal Electrodes for Excitation of Nanosecond-Pulse Homogeneous Dielectric Barrier Discharge in Open Air. <i>IEEE Transactions on Plasma Science</i> , <b>2013</b> , 41, 3069-3078	1.3	24
56	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2013</b> , 20, 1304-1314	2.3	42
55	Repetitive nanosecond-pulse dielectric barrier discharge and its application on surface modification of polymers. <i>Surface and Coatings Technology</i> , <b>2013</b> , 228, S578-S582	4.4	19
54	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2013</b> , 20, 1101-1111	2.3	67
53	Formation of hydrophobic coating on PMMA surface using unipolar nanosecond-pulse DBD in atmospheric air. <i>Journal of Electrostatics</i> , <b>2013</b> , 71, 435-439	1.7	26
52	Time behaviour of discharge current in case of nanosecond-pulse surface dielectric barrier discharge. <i>Europhysics Letters</i> , <b>2013</b> , 101, 45002	1.6	44
51	Diffuse discharge produced by repetitive nanosecond pulses in open air, nitrogen, and helium. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 093301	2.5	61
50	Effect of grounded electrode's width on electrical characteristics of nanosecond-pulse surface DBD <b>2013</b> ,		2
49	<b>2013</b> ,		1

48	Discharge characteristic of nanosecond-pulse DBD in atmospheric air using magnetic compression pulsed power generator. <i>Vacuum</i> , <b>2012</b> , 86, 876-880	3-7	21
47	Surface modifications of polymethylmetacrylate films using atmospheric pressure air dielectric barrier discharge plasma. <i>Vacuum</i> , <b>2012</b> , 86, 1305-1312	3-7	34
46	A Gliding Discharge in Open Air Sustained by High-Voltage Resonant AC Power Supply. <i>IEEE Transactions on Plasma Science</i> , <b>2012</b> , 40, 2843-2849	1-3	26
45	Electrical Model and Experimental Analysis of the Atmospheric-Pressure Homogeneous Dielectric Barrier Discharge in He. <i>IEEE Transactions on Plasma Science</i> , <b>2012</b> , 40, 883-891	1-3	28
44	Study on Q-V Lissajous figures in nanosecond-pulsed surface discharge <b>2012</b> ,		1
43	Generation of Homogeneous Atmospheric-Pressure Dielectric Barrier Discharge in a Large-Gap Argon Gas. <i>IEEE Transactions on Plasma Science</i> , <b>2012</b> , 40, 1884-1890	1-3	8
42	Temporal evolution of nanosecond-pulse dielectric barrier discharges in open air. <i>Europhysics Letters</i> , <b>2012</b> , 97, 55005	1-6	44
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39	<b>2012</b> ,		1
38	Study on surface flashover and gas desorption of solid insulation materials in vacuum <b>2012</b> ,		1
37	A repetitive microsecond-pulse generator for plasma application <b>2012</b> ,		2
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35	Spark discharge formation in an inhomogeneous electric field under conditions of runaway electron generation. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 023304	2-5	39
34	Surface modification of polymers by a nanosecond-pulse plasma jet <b>2012</b> ,		4
33	X-ray and runaway electron generation in repetitive pulsed discharges in atmospheric pressure air with a point-to-plane gap. <i>Physics of Plasmas</i> , <b>2011</b> , 18, 053502	2-1	11
32	Comparison of AC and Nanosecond-Pulsed DBDs in Atmospheric Air. <i>IEEE Transactions on Plasma Science</i> , <b>2011</b> , 39, 2076-2077	1-3	25
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26	Simulations on Elastoplasticity of the Monolithic Aluminum Armature Under the Contact Force. <i>IEEE Transactions on Plasma Science</i> , <b>2011</b> , 39, 426-430	1.3	8
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23	Pulse Repetition Frequency Effect on Nanosecond-Pulse Diffuse Discharge in Atmospheric-Pressure Air With a Point-to-Plane Gap. <i>IEEE Transactions on Plasma Science</i> , <b>2011</b> , 39, 2070-2071	1.3	7
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21	Nanosecond Repetitively Pulsed Dielectric Barrier Discharge in Air at Atmospheric Pressure. <i>Plasma Science and Technology</i> , <b>2011</b> , 13, 591-595	1.5	12
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19	Review on atmospheric pressure pulsed DC discharge. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , <b>2011</b> , 41, 801-815	1.5	18
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15	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2010</b> , 17, 1830-1837	2.3	53
14	A compact, high repetition-rate, nanosecond pulse generator based on magnetic pulse compression <b>2010</b> ,		2
13	Surface Treatment of Polyethylene Terephthalate Films Using DBD Excited by Repetitive Unipolar Nanosecond Pulses in Air at Atmospheric Pressure. <i>IEEE Transactions on Plasma Science</i> , <b>2010</b> , 38, 1517-1526	1.3	50

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11	Surface modification of polyimide films using unipolar nanosecond-pulse DBD in atmospheric air. <i>Applied Surface Science</i> , <b>2010</b> , 256, 3888-3894	6.7	139
10	Comparison of experiment and simulation on dielectric barrier discharge driven by 50Hz AC power in atmospheric air. <i>Journal of Electrostatics</i> , <b>2010</b> , 68, 445-452	1.7	25
9	Electrical characterization of dielectric barrier discharge driven by repetitive nanosecond pulses in atmospheric air. <i>Journal of Electrostatics</i> , <b>2009</b> , 67, 215-221	1.7	47
8	. <i>IEEE Transactions on Plasma Science</i> , <b>2008</b> , 36, 1358-1359	1.3	28
7	Experimental investigation of surface flashover in vacuum using nanosecond pulses. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2007</b> , 14, 634-642	2.3	44
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5	Breakdown Phenomena in Nitrogen Due to Repetitive Nanosecond-pulses. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2007</b> , 14, 813-819	2.3	24
4	Repetitive Nanosecond-Pulse Breakdown in TipPlane Gaps of Air. <i>IEEE Transactions on Plasma Science</i> , <b>2006</b> , 34, 1620-1625	1.3	22
3	Numerical investigation on the heterogeneous pulsed dielectric barrier discharge plasma catalysis for CO <sub>2</sub> hydrogenation at atmospheric pressure: Effects of Ni and Cu catalysts on the selectivity conversions to CH <sub>4</sub> and CH <sub>3</sub> OH. <i>Plasma Processes and Polymers</i> , e2100111	3.4	1
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