Tao Shao

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36 209 4,491 55 h-index g-index citations papers 5,865 249 3.5 5.93 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
209	A Scalable, High-Throughput, and Environmentally Benign Approach to Polymer Dielectrics Exhibiting Significantly Improved Capacitive Performance at High Temperatures. <i>Advanced Materials</i> , 2018 , 30, e1805672	24	145
208	Atmospheric-pressure pulsed discharges and plasmas: mechanism, characteristics and applications. High Voltage, 2018 , 3, 14-20	4.1	143
207	Enhanced surface flashover strength in vacuum of polymethylmethacrylate by surface modification using atmospheric-pressure dielectric barrier discharge. <i>Applied Physics Letters</i> , 2014 , 105, 071607	3.4	139
206	Surface modification of polyimide films using unipolar nanosecond-pulse DBD in atmospheric air. <i>Applied Surface Science</i> , 2010 , 256, 3888-3894	6.7	139
205	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> , 2017 , 24, 1557-1565	2.3	103
204	Diffuse discharge, runaway electron, and x-ray in atmospheric pressure air in an inhomogeneous electrical field in repetitive pulsed modes. <i>Applied Physics Letters</i> , 2011 , 98, 021503	3.4	99
203	A Compact Repetitive Unipolar Nanosecond-Pulse Generator for Dielectric Barrier Discharge Application. <i>IEEE Transactions on Plasma Science</i> , 2010 , 38, 1651-1655	1.3	87
202	The synergistic effects of the micro-BN and nano-Al2O3 in micro-nano composites on enhancing the thermal conductivity for insulating epoxy resin. <i>Composites Science and Technology</i> , 2018 , 168, 420-4	428 428	83
201	Effect of O2 additive on spatial uniformity of atmospheric-pressure helium plasma jet array driven by microsecond-duration pulses. <i>Applied Physics Letters</i> , 2014 , 105, 044102	3.4	79
200	Effect of cold plasma on blueberry juice quality. Food Chemistry, 2019, 290, 79-86	8.5	71
199	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> , 2015 , 22, 1747-1754	2.3	70
198	Comparison between helium and argon plasma jets on improving the hydrophilic property of PMMA surface. <i>Applied Surface Science</i> , 2016 , 367, 401-406	6.7	68
197	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> , 2017 , 50, 405203	3	68
196	Microsecond pulse driven Ar/CF4 plasma jet for polymethylmethacrylate surface modification at atmospheric pressure. <i>Applied Surface Science</i> , 2015 , 328, 509-515	6.7	68
195	. IEEE Transactions on Dielectrics and Electrical Insulation, 2013 , 20, 1101-1111	2.3	67
194	Nanosecond pulsed plasma assisted dry reforming of CH4: The effect of plasma operating parameters. <i>Applied Energy</i> , 2019 , 243, 132-144	10.7	64
193	Highly efficient conversion of methane using microsecond and nanosecond pulsed spark discharges. <i>Applied Energy</i> , 2018 , 226, 534-545	10.7	62

(2013-2013)

192	Diffuse discharge produced by repetitive nanosecond pulses in open air, nitrogen, and helium. <i>Journal of Applied Physics</i> , 2013 , 113, 093301	2.5	61	
191	Hydrophobic treatment on polymethylmethacrylate surface by nanosecond-pulse DBDs in CF4 at atmospheric pressure. <i>Applied Surface Science</i> , 2014 , 311, 468-477	6.7	60	
190	Surface Treatment of Polyethylene Terephthalate to Improving Hydrophilicity Using Atmospheric Pressure Plasma Jet. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 1627-1634	1.3	58	
189	Efficient Nitrogen Fixation to Ammonia through Integration of Plasma Oxidation with Electrocatalytic Reduction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 14131-14137	16.4	56	
188	. IEEE Transactions on Dielectrics and Electrical Insulation, 2010 , 17, 1830-1837	2.3	53	
187	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> , 2010 , 38, 1517	-1 ¹ 526	50	
186	Comparison of Atmospheric-Pressure He and Ar Plasma Jets Driven by Microsecond Pulses. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 726-732	1.3	48	
185	Electrical characterization of dielectric barrier discharge driven by repetitive nanosecond pulses in atmospheric air. <i>Journal of Electrostatics</i> , 2009 , 67, 215-221	1.7	47	
184	Hydrophobic surface modification of epoxy resin using an atmospheric pressure plasma jet array. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016 , 23, 2288-2293	2.3	44	
183	Correlation between surface charge and DC surface flashover of plasma treated epoxy resin. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 1267-1274	2.3	44	
182	Temporal evolution of nanosecond-pulse dielectric barrier discharges in open air. <i>Europhysics Letters</i> , 2012 , 97, 55005	1.6	44	
181	Time behaviour of discharge current in case of nanosecond-pulse surface dielectric barrier discharge. <i>Europhysics Letters</i> , 2013 , 101, 45002	1.6	44	
180	Experimental investigation of surface flashover in vacuum using nanosecond pulses. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2007 , 14, 634-642	2.3	44	
179	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> , 2020 , 29, 044001	3.5	43	
178	Two discharge modes in an atmospheric pressure plasma jet array in argon. <i>Plasma Sources Science and Technology</i> , 2016 , 25, 01LT01	3.5	43	
177	. IEEE Transactions on Dielectrics and Electrical Insulation, 2013 , 20, 1304-1314	2.3	42	
176	Uniformity optimization and dynamic studies of plasma jet array interaction in argon. <i>Physics of Plasmas</i> , 2017 , 24, 093507	2.1	42	
175	Application of dynamic displacement current for diagnostics of subnanosecond breakdowns in an inhomogeneous electric field. <i>Review of Scientific Instruments</i> , 2013 , 84, 053506	1.7	39	

174	Spark discharge formation in an inhomogeneous electric field under conditions of runaway electron generation. <i>Journal of Applied Physics</i> , 2012 , 111, 023304	2.5	39
173	Surface modifications of polystyrene and their stability: A comparison of DBD plasma deposition and direct fluorination. <i>Applied Surface Science</i> , 2018 , 459, 300-308	6.7	36
172	Nanosecond-pulse gliding discharges between point-to-point electrodes in open air. <i>Plasma Sources Science and Technology</i> , 2014 , 23, 035004	3.5	34
171	Surface modifications of polymethylmetacrylate films using atmospheric pressure air dielectric barrier discharge plasma. <i>Vacuum</i> , 2012 , 86, 1305-1312	3.7	34
170	The role of fast electrons in diffuse discharge formation: Monte Carlo simulation. <i>Plasma Sources Science and Technology</i> , 2017 , 26, 085008	3.5	34
169	Runaway electron preionized diffuse discharges in atmospheric pressure air with a point-to-plane gap in repetitive pulsed mode. <i>Journal of Applied Physics</i> , 2011 , 109, 083306	2.5	34
168	Atmospheric-pressure pulsed plasma actuators for flow control: shock wave and vortex characteristics. <i>Plasma Sources Science and Technology</i> , 2019 , 28, 064001	3.5	34
167	Repetitive nanosecond-pulse discharge in a highly nonuniform electric field in atmospheric air: X-ray emission and runaway electron generation. <i>Laser and Particle Beams</i> , 2012 , 30, 369-378	0.9	33
166	Numerical simulation on a nanosecond-pulse surface dielectric barrier discharge actuator in near space. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 145201	3	32
165	Atmospheric pressure plasmas and direct fluorination treatment of Al2O3-filled epoxy resin: A comparison of surface charge dissipation. <i>Surface and Coatings Technology</i> , 2019 , 362, 1-11	4.4	31
164	Effect of pulse polarity on the temporal and spatial emission of an atmospheric pressure helium plasma jet. <i>Plasma Sources Science and Technology</i> , 2016 , 25, 015020	3.5	31
163	Effect of cathode materials on the generation of runaway electron beams and X-rays in atmospheric pressure air. <i>Laser and Particle Beams</i> , 2013 , 31, 353-364	0.9	29
162	Electrical Model and Experimental Analysis of the Atmospheric-Pressure Homogeneous Dielectric Barrier Discharge in He. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 883-891	1.3	28
161	Runaway electrons and x-rays from a corona discharge in atmospheric pressure air. <i>New Journal of Physics</i> , 2011 , 13, 113035	2.9	28
160	. IEEE Transactions on Plasma Science, 2008 , 36, 1358-1359	1.3	28
159	. IEEE Transactions on Dielectrics and Electrical Insulation, 2015 , 22, 1907-1915	2.3	27
158	Temporal evolution of atmosphere pressure plasma jets driven by microsecond pulses with positive and negative polarities. <i>Europhysics Letters</i> , 2014 , 107, 65004	1.6	27
157	Deposition of SiCxHyOzthin film on epoxy resin by nanosecond pulsed APPJ for improving the surface insulating performance. <i>Plasma Science and Technology</i> , 2018 , 20, 025504	1.5	26

1	56	A Gliding Discharge in Open Air Sustained by High-Voltage Resonant AC Power Supply. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 2843-2849	1.3	26	
1	55	Formation of hydrophobic coating on PMMA surface using unipolar nanosecond-pulse DBD in atmospheric air. <i>Journal of Electrostatics</i> , 2013 , 71, 435-439	1.7	26	
1	54	A Cascaded Microsecond-Pulse Generator for Discharge Applications. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 1721-1728	1.3	25	
1	53	Comparison of AC and Nanosecond-Pulsed DBDs in Atmospheric Air. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2076-2077	1.3	25	
1	52	Comparison of experiment and simulation on dielectric barrier discharge driven by 50Hz AC power in atmospheric air. <i>Journal of Electrostatics</i> , 2010 , 68, 445-452	1.7	25	
1	51	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> , 2013 , 41, 3069-3078	1.3	24	
1	50	Breakdown Phenomena in Nitrogen Due to Repetitive Nanosecond-pulses. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2007 , 14, 813-819	2.3	24	
1.	49	Energy pooling mechanism for catalyst-free methane activation in nanosecond pulsed non-thermal plasmas. <i>Chemical Engineering Journal</i> , 2020 , 396, 125185	14.7	23	
1.	48	Dynamics of Plasma Bullets in a Microsecond-Pulse-Driven Atmospheric-Pressure He Plasma Jet. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 393-397	1.3	23	
1.	47	Plasma bullet propagation and reflection from metallic and dielectric targets. <i>Plasma Sources Science and Technology</i> , 2019 , 28, 095006	3.5	23	
1.	46	Non-oxidative methane conversion in diffuse, filamentary, and spark regimes of nanosecond repetitively pulsed discharge with negative polarity. <i>Plasma Processes and Polymers</i> , 2019 , 16, 1900050	3.4	22	
1.	45	Inorganic nanofilms for surface charge control on polymer surfaces by atmospheric-pressure plasma deposition. <i>Journal of Applied Physics</i> , 2017 , 122, 233302	2.5	22	
1.	44	Repetitive Nanosecond-Pulse Breakdown in TipPlane Gaps of Air. <i>IEEE Transactions on Plasma Science</i> , 2006 , 34, 1620-1625	1.3	22	
1.	43	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> , 2018 , 51, 274	005	22	
1.	42	Discharge characteristic of nanosecond-pulse DBD in atmospheric air using magnetic compression pulsed power generator. <i>Vacuum</i> , 2012 , 86, 876-880	3.7	21	
1.	41	Study on Surface Properties of Polyamide 66 Using Atmospheric Glow-Like Discharge Plasma Treatment. <i>Coatings</i> , 2017 , 7, 123	2.9	21	
1.	40	Electrical Characteristics in Surface Dielectric Barrier Discharge Driven by Microsecond Pulses. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 2772-2778	1.3	20	
1	39	Generation of super-short avalanche electron beams in SF6. <i>Laser and Particle Beams</i> , 2014 , 32, 331-341	l o.9	20	

138	Detection of x-ray emission in a nanosecond discharge in air at atmospheric pressure. <i>Review of Scientific Instruments</i> , 2010 , 81, 123501	1.7	20
137	Repetitive nanosecond-pulse dielectric barrier discharge and its application on surface modification of polymers. <i>Surface and Coatings Technology</i> , 2013 , 228, S578-S582	4.4	19
136	A comparison between characteristics of atmospheric-pressure plasma jets sustained by nanosecond- and microsecond-pulse generators in helium. <i>Physics of Plasmas</i> , 2014 , 21, 103505	2.1	19
135	Coupling bimetallic Ni-Fe catalysts and nanosecond pulsed plasma for synergistic low-temperature CO2 methanation. <i>Chemical Engineering Journal</i> , 2021 , 420, 127693	14.7	19
134	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> , 2020 , 27, 528-534	2.3	18
133	Characteristics of microsecond-pulse surface flashover on epoxy resin surfaces in SF6. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016 , 23, 2328-2336	2.3	18
132	Aging Characteristics on Epoxy Resin Surface Under Repetitive Microsecond Pulses in Air at Atmospheric Pressure. <i>Plasma Science and Technology</i> , 2016 , 18, 325-330	1.5	18
131	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> , 2014 , 23, 054018	3.5	18
130	Review on atmospheric pressure pulsed DC discharge. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2011 , 41, 801-815	1.5	18
129	A Compact Microsecond-Pulse Generator Used for Surface Dielectric Barrier Discharges. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 2072-2078	1.3	18
128	Thin insulating film deposition on copper by atmospheric-pressure plasmas. <i>Plasma Processes and Polymers</i> , 2017 , 14, 1600248	3.4	17
127	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> , 2015 , 118, 123303	2.5	17
126	Nanosecond Repetitively Pulsed Discharge of Point P lane Gaps in Air at Atmospheric Pressure. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 1881-1888	1.3	17
125	Atmospheric-Pressure Plasma Jet Produced by a Unipolar Nanosecond Pulse Generator in Various Gases. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2322-2323	1.3	17
124	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> , 2021 , 18,	4.6	17
123	Deposition of SiOx film on electrode surface by DBD to improve the lift-off voltage of metal particles. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 1285-1292	2.3	16
122	Study of flow fields induced by surface dielectric barrier discharge actuator in low-pressure air. <i>Physics of Plasmas</i> , 2014 , 21, 043508	2.1	16
121	Aging characteristics of epoxy resin discharged by very fast transient overvoltage in SF6. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 1178-1188	2.3	16

(2012-2019)

120	Spatial memporal Evolution of a Radial Plasma Jet Array and Its Interaction with Material. <i>Plasma Chemistry and Plasma Processing</i> , 2019 , 39, 187-203	3.6	16	
119	Plasma surface treatment of Cu by nanosecond-pulse diffuse discharges in atmospheric air. <i>Plasma Science and Technology</i> , 2018 , 20, 014011	1.5	16	
118	Influence of Oxygen Content on Argon/Oxygen Dielectric Barrier Discharge Plasma Treatment of Polyethylene Terephthalate Film. <i>IEEE Transactions on Plasma Science</i> , 2017 , 45, 310-317	1.3	15	
117	Atmospheric-pressure plasma jet deposition of bumpy coating improves polypropylene surface flashover performance in vacuum. <i>Surface and Coatings Technology</i> , 2020 , 387, 125511	4.4	15	
116	Generation of Atmospheric Pressure Plasma by Repetitive Nanosecond Pulses in Air Using Water Electrodes. <i>Plasma Science and Technology</i> , 2011 , 13, 735-739	1.5	15	
115	Effect of surface modification of electrodes on charge injection and dielectric characteristics of propylene carbonate. <i>High Voltage</i> , 2020 , 5, 15-23	4.1	15	
114	Ionization waves in nanosecond pulsed atmospheric pressure plasma jets in argon. <i>High Voltage</i> , 2021 , 6, 665-673	4.1	15	
113	Efficient Nitrogen Fixation to Ammonia through Integration of Plasma Oxidation with Electrocatalytic Reduction. <i>Angewandte Chemie</i> , 2021 , 133, 14250-14256	3.6	15	
112	Improvement of Spatial Uniformity of Nanosecond-Pulse Diffuse Discharges in a Multi-Needle-to-Plane Gap. <i>Plasma Science and Technology</i> , 2016 , 18, 230-235	1.5	15	
111	Discharge processes and an electrical model of atmospheric pressure plasma jets in argon. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	14	
110	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> , 2019 , 28, 095001	3.5	14	
109	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> , 2017 , 24, 123503	2.1	14	
108	Effect of dielectric and conductive targets on plasma jet behaviour and thin film properties. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 074002	3	14	
107	Effects of nanosecond pulse voltage parameters on characteristics of surface charge for epoxy resin. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 2058-2066	2.3	14	
106	Interaction of argon and helium plasma jets and jets arrays with account for gravity. <i>Physics of Plasmas</i> , 2018 , 25, 063507	2.1	13	
105	Surface charge decay of epoxy resin treated by AP-DBD deposition and direct fluorination. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 768-775	2.3	13	
104	Abnormal polarity effect in nanosecond-pulse breakdown of SF6 and nitrogen. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 1828-1833	2.3	13	
103	X-ray emission from a nanosecond-pulse discharge in an inhomogeneous electric field at atmospheric pressure. <i>Physics of Plasmas</i> , 2012 , 19, 123516	2.1	13	

102	Diffuse and Filamentary Discharges in Open Air Driven by Repetitive High-Voltage Nanosecond Pulses. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2208-2209	1.3	13
101	Supershort avalanche electron beam in SF6 and krypton. <i>Physical Review Accelerators and Beams</i> , 2016 , 19,	1.8	13
100	Aging characteristics of polymeric materials by repeated surface flashovers in vacuum under microsecond pulse. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 171-178	2.3	12
99	Nanosecond Repetitively Pulsed Dielectric Barrier Discharge in Air at Atmospheric Pressure. <i>Plasma Science and Technology</i> , 2011 , 13, 591-595	1.5	12
98	Bent paths of a positive streamer and a cathode-directed spark leader in diffuse discharges preionized by runaway electrons. <i>Physics of Plasmas</i> , 2015 , 22, 033511	2.1	11
97	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> , 2011 , 18, 053502	2.1	11
96	ICCD Observation of Homogeneous DBD Excitated by Unipolar Nanosecond Pulses in Open Air. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2062-2063	1.3	11
95	Trap distribution of polymeric materials and its effect on surface flashover in vacuum. <i>Plasma Science and Technology</i> , 2020 , 22, 044002	1.5	11
94	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> , 2019 , 52, 275202	3	10
93	Generation of Runaway Electrons and X-rays in Repetitive Nanosecond Pulse Corona Discharge in Atmospheric Pressure Air. <i>Applied Physics Express</i> , 2011 , 4, 066001	2.4	10
92	Simulation of runaway electron inception and breakdown in nanosecond pulse gas discharges. <i>Laser and Particle Beams</i> , 2016 , 34, 43-52	0.9	10
91	Influences of oxygen content on characteristics of atmospheric pressure dielectric barrier discharge in argon/oxygen mixtures. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	10
90	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> , 2021 , 9, 105758	6.8	10
89	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> , 2017 , 2, 49-55	4.1	9
88	A comparison between spectra of runaway electron beams in SF6 and air. <i>Physics of Plasmas</i> , 2015 , 22, 123516	2.1	9
87	Enhanced surface insulating performance for polystyrene by atmospheric pressure plasma jet deposition. <i>Applied Surface Science</i> , 2020 , 527, 146826	6.7	9
86	Nanosecond pulsed uniform dielectric barrier discharge in atmospheric air: A brief spectroscopic analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 207, 294-300	4.4	9
85	Phase-Resolved Measurement of Atmospheric-Pressure Radio-Frequency Pulsed Discharges in Ar/CH4/CO2 Mixture. <i>Plasma Chemistry and Plasma Processing</i> , 2020 , 40, 937-953	3.6	8

84	Two Typical Charge Transportation Characteristics in Nanosecond-Pulse Surface Dielectric Barrier Discharge. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 3524-3530	1.3	8	
83	The Effect of Accumulated Charges and Fluid Dynamics on the Helium Plasma Jet Array Behavior. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 4861-4867	1.3	8	
82	Factors influencing the discharge mode for microsecond-pulse gliding discharges at atmospheric pressure. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 2148-2156	2.3	8	
81	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> , 2017 , 14, 1700112	3.4	8	
80	A pulsed generator for synchronous discharges of high-energy plasma synthetic jet actuators. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 2076-2084	2.3	8	
79	Surface morphology and flashover performance of epoxy resin in SF6 after discharge aging. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 3395-3404	2.3	8	
78	Generation of Homogeneous Atmospheric-Pressure Dielectric Barrier Discharge in a Large-Gap Argon Gas. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 1884-1890	1.3	8	
77	Simulations on Elastoplasticity of the Monolithic Aluminum Armature Under the Contact Force. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 426-430	1.3	8	
76	Experimental Study of Similarity Laws in Gas Breakdown with Repetitive Nanosecond Pulses. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 803-805	1.4	8	
75	Charge transfer in plasma assisted dry reforming of methane using a nanosecond pulsed packed-bed reactor discharge. <i>Plasma Science and Technology</i> , 2021 , 23, 064007	1.5	8	
74	Nanosecond-pulsed microbubble plasma reactor for plasma-activated water generation and bacterial inactivation. <i>Plasma Processes and Polymers</i> ,	3.4	8	
73	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> , 2019 , 16, 1800176	3.4	7	
72	Effect of rise time on nanosecond pulsed surface dielectric barrier discharge actuator. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 346-352	2.3	7	
71	Effects of TiO2 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> , 2020 , 27, 442-449	2.3	7	
70	Experimental Study on Sound Characteristics Produced by DC Corona and Pulsed Discharges. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 2196-2203	1.3	7	
69	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> , 2011 , 39, 20	70 ¹ -2 ² 07	1 ⁷	
68	Poly(vinylidene fluoride)/Plasma-Treated BaTiO3 Nanocomposites with Enhanced Electroactive Phase. <i>Macromolecular Research</i> , 2018 , 26, 965-972	1.9	7	
67	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> , 2018 , 36, 186-194	0.9	7	

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Surface modification of polymers by a nanosecond-pulse plasma jet 2012,

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Experimental study on the treatment of oil-based drill cutting by pulsed dielectric barrier discharge

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48	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> , 2022 , 95, 106989	17.1	4
47	Nanosecond-pulse diffuse discharges at atmospheric pressure. Chinese Science Bulletin, 2014, 59, 1919-	1 <u>9</u> .36	4
46	Reconstruction of energy spectrum of runaway electrons in nanosecond-pulse discharges in atmospheric air. <i>Plasma Science and Technology</i> , 2021 , 23, 064011	1.5	4
45	Strategies of Power Measurement and Energy Coupling Enhancement in Nanosecond Pulsed Coaxial Dielectric Barrier Discharges. <i>IEEE Transactions on Plasma Science</i> , 2021 , 49, 1605-1613	1.3	4
44	Revealing the active sites of the structured Ni-based catalysts for one-step CO2/CH4 conversion into oxygenates by plasma-catalysis. <i>Journal of CO2 Utilization</i> , 2021 , 52, 101675	7.6	4
43	Self-heating effect on stability of a nanosecond pulsed DBD interacting with heptane and methylnaphthalene as heavy oil model compounds. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 431-438	2.3	3
42	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> , 2021 , 30, 025008	3.5	3
41	Numerical modeling and mechanism investigation on nanosecond pulsed DBD plasma-catalytic CH4 dry reforming. <i>Journal Physics D: Applied Physics</i> ,	3	3
40	Characteristics of N2/O2 reaction in spark gap switch: The effect of high-current pulsed arc. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 492-500	2.3	2
39	Measurement of optical spectrum and mass spectrum in vacuum surface flashover for polymeric materials. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 593-600	2.3	2
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