Shuai Zhang

List of Publications by Year
in descending order

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		186254	223791
112	2,710	28	46
papers	citations	h-index	g-index

115	115	115	2957
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sustainable Ammonia Synthesis from Nitrogen and Water by Oneâ€Step Plasma Catalysis. Energy and Environmental Materials, 2023, 6, .	12.8	20
2	Numerical modeling and mechanism investigation of nanosecond-pulsed DBD plasma-catalytic CH₄ dry reforming. Journal Physics D: Applied Physics, 2022, 55, 035202.	2.8	12
3	Optical emission spectroscopy measurement of plasma parameters in a nanosecond pulsed spark discharge for CO2/CH4 dry reforming. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 267, 120590.	3.9	10
4	Numerical investigation on the heterogeneous pulsed dielectric barrier discharge plasma catalysis for CO₂ hydrogenation at atmospheric pressure: Effects of Ni and Cu catalysts on the selectivity conversions to CH₄ and CH₃OH. Plasma Processes and Polymers, 2022, 19, e2100111.	3.0	14
5	Re-engineering the inner surface of ferritin nanocage enables dual drug payloads for synergistic tumor therapy. Theranostics, 2022, 12, 1800-1815.	10.0	30
6	Sustainable nitrogen fixation with nanosecond pulsed spark discharges: insights into free-radical-chain reactions. Green Chemistry, 2022, 24, 1534-1544.	9.0	21
7	COx-free co-cracking of n-decane and CH4 to hydrogen and acetylene using pulsed spark plasma. Chemical Engineering Journal, 2022, 436, 135190.	12.7	17
8	Design, synthesis and biological evaluation of colchicine glycoconjugates as tubulin polymerization inhibitors. Bioorganic and Medicinal Chemistry, 2022, 58, 116671.	3.0	3
9	Preparation of Exfoliated Organoâ€Montmorillonite and Its Effect on Flame Retardancy and Mechanical Properties of Polypropylene. ChemistrySelect, 2022, 7, .	1.5	1
10	Dry reforming of methane by microsecond pulsed dielectric barrier discharge plasma: Optimizing the reactor structures. High Voltage, 2022, 7, 718-729.	4.7	41
11	Research on the self-supporting capacity of sand and pebble stratum based on tunnel model test and discreteâ€“continuous coupling method. Arabian Journal of Geosciences, 2022, 15, 1.	1.3	3
12	Remediation of Coal Tarâ€“Contaminated Soil by Smoldering Combustion Using Vegetable Oils as Supplemental Fuel. Journal of Environmental Engineering, ASCE, 2022, 148, .	1.4	4
13	Coupling bimetallic Ni-Fe catalysts and nanosecond pulsed plasma for synergistic low-temperature CO2 methanation. Chemical Engineering Journal, 2021, 420, 127693.	12.7	56
14	Facile synthesis of nitrogen-doped and boron-doped reduced graphene oxide using radio-frequency plasma for supercapacitors. Journal Physics D: Applied Physics, 2021, 54, 265501.	2.8	10
15	Bioengineered Dualâ€Targeting Protein Nanocage for Stereoscopical Loading of Synergistic Hydrophilic/Hydrophobic Drugs to Enhance Anticancer Efficacy. Advanced Functional Materials, 2021, 31, 2102004.	14.9	18
16	Charge transfer in plasma assisted dry reforming of methane using a nanosecond pulsed packed-bed reactor discharge. Plasma Science and Technology, 2021, 23, 064007.	1.5	26
17	Efficient Nitrogen Fixation to Ammonia through Integration of Plasma Oxidation with Electrocatalytic Reduction. Angewandte Chemie - International Edition, 2021, 60, 14131-14137.	13.8	190
18	Efficient Nitrogen Fixation to Ammonia through Integration of Plasma Oxidation with Electrocatalytic Reduction. Angewandte Chemie, 2021, 133, 14250-14256.	2.0	44

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19	Special issue on selected papers from HVDP 2020. Plasma Science and Technology, 2021, 23, 060101.	1.5	0
20	Synergistic Chemotherapy: Bioengineered Dualâ€Targeting Protein Nanocage for Stereoscopical Loading of Synergistic Hydrophilic/Hydrophobic Drugs to Enhance Anticancer Efficacy (Adv. Funct. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	14.9	0
21	Liquefied Natural Gas for Superconducting Energy Pipelines: A Feasibility Study on Electrical Insulation. Energy & Fuels, 2021, 35, 13930-13936.	5.1	4
22	Screening and Identification of Antidepressant Active Ingredients from Puerariae Radix Extract and Study on Its Mechanism. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-18.	4.0	8
23	Design, synthesis and bioevaluation of 2,7-diaryl-pyrazolo[1,5-a]pyrimidines as tubulin polymerization inhibitors. Bioorganic Chemistry, 2021, 115, 105220.	4.1	10
24	Design, synthesis and bioevaluation of 6-aryl-1-(3,4,5-trimethoxyphenyl)-1H-benzo[d]imidazoles as tubulin polymerization inhibitors. European Journal of Medicinal Chemistry, 2021, 226, 113826.	5.5	18
25	Temperature-independent, nonoxidative methane conversion in nanosecond repetitively pulsed DBD plasma. Sustainable Energy and Fuels, 2021, 5, 787-800.	4.9	24
26	Temporal evolution of electron energy distribution function and its correlation with hydrogen radical generation in atmospheric-pressure methane needleâ€“plane discharge plasmas. Journal Physics D: Applied Physics, 2021, 54, 095202.	2.8	12
27	Post-Intensive Care Syndrome in Children: A Concept Analysis. Journal of Pediatric Nursing, 2021, 61, 417-423.	1.5	7
28	Plasma-Enabled CO2/CH4 Conversion into Li Quid Chemicals: Effect of Valence States and Microstructure of the Catalysts. , 2021, , .		0
29	Plasma enhanced anti-coking performance of Pd/CeO₂ catalysts for the conversion of methane. Sustainable Energy and Fuels, 2021, 6, 98-109.	4.9	20
30	Template synthesis of structure-controlled 3D hollow nickel-cobalt phosphides microcubes for high-performance supercapacitors. Journal of Colloid and Interface Science, 2020, 561, 23-31.	9.4	50
31	Photoprotective effect of Astragalus membranaceus polysaccharide on UVA-induced damage in HaCaT cells. PLoS ONE, 2020, 15, e0235515.	2.5	12
32	Template Construction of Porous CoP/COP₂ Microflowers Threaded with Carbon Nanotubes toward High-Efficiency Oxygen Evolution and Hydrogen Evolution Electrocatalysts. Inorganic Chemistry, 2020, 59, 12232-12239.	4.0	13
33	MOF-Derived Hierarchical CoSe₂ with Sheetlike Nanoarchitectures as an Efficient Bifunctional Electrocatalyst. Inorganic Chemistry, 2020, 59, 12778-12787.	4.0	27
34	Electro-Fenton Based Technique to Enhance Cell Harvest and Lipid Extraction from Microalgae. Energies, 2020, 13, 3813.	3.1	9
35	A Composite Uncertainty Forecasting Model for Unstable Time Series: Application of Wind Speed and Streamflow Forecasting. IEEE Access, 2020, 8, 209251-209266.	4.2	15
36	The PVP-assisted construction of a Co₃V₂O₈@NiCo LDH hierarchical structure for high-performance lithium-ion batteries. New Journal of Chemistry, 2020, 44, 10918-10923.	2.8	16

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37	Atmospheric-pressure plasma jet deposition of bumpy coating improves polypropylene surface flashover performance in vacuum. Surface and Coatings Technology, 2020, 387, 125511.	4.8	27
38	Surface modification of aramid fibers with CaCl₂ treatment and secondary functionalization of silane coupling agents. Journal of Applied Polymer Science, 2020, 137, 49159.	2.6	8
39	Protective effect of d-tetramannuronic acid tetrasodium salt on UVA-induced photo-aging in HaCaT cells. Biomedicine and Pharmacotherapy, 2020, 126, 110094.	5.6	14
40	Synthesis of cobalt-doped V₂O₃with a hierarchical yolkâ€“shell structure for high-performance lithium-ion batteries. CrystEngComm, 2020, 22, 1705-1711.	2.6	19
41	Energy pooling mechanism for catalyst-free methane activation in nanosecond pulsed non-thermal plasmas. Chemical Engineering Journal, 2020, 396, 125185.	12.7	41
42	Cutting performance investigation based on the variable friction model by considering sliding velocity and limiting stress. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2020, 234, 1113-1123.	2.4	2
43	Protective Effect of l-Hexaguluroic Acid Hexasodium Salt on UVA-Induced Photo-Aging in HaCaT Cells. International Journal of Molecular Sciences, 2020, 21, 1201.	4.1	12
44	Microsecond Pulsed Spark Discharge Plasma Treatment on Heavy Oil Model Compounds for Hydrogen Production. , 2020, , .		0
45	Efficient Conversion of Greenhouse Gas into Value-Added Chemicals with Non-Thermal Nanosecond Pulsed Plasma. , 2020, , .		0
46	Title is missing!. , 2020, 15, e0235515.		0
47	Title is missing!. , 2020, 15, e0235515.		0
48	Title is missing!. , 2020, 15, e0235515.		0
49	Title is missing!. , 2020, 15, e0235515.		0
50	Plasma bullet propagation and reflection from metallic and dielectric targets. Plasma Sources Science and Technology, 2019, 28, 095006.	3.1	42
51	The Effect of Accumulated Charges and Fluid Dynamics on the Helium Plasma Jet Array Behavior. IEEE Transactions on Plasma Science, 2019, 47, 4861-4867.	1.3	11
52	Porous Structure, Carbon Dioxide Capture, and Separation in Cross-Linked Porphyrin-Based Polyimides Networks. Industrial & Engineering Chemistry Research, 2019, 58, 14146-14153.	3.7	15
53	A Sentiment-Aware Trading Volume Prediction Model for P2P Market Using LSTM. IEEE Access, 2019, 7, 81934-81944.	4.2	13
54	Nonâ€oxidative methane conversion in diffuse, filamentary, and spark regimes of nanosecond repetitively pulsed discharge with negative polarity. Plasma Processes and Polymers, 2019, 16, 1900050.	3.0	39

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55	Nanosecond pulsed plasma assisted dry reforming of CH4: The effect of plasma operating parameters. Applied Energy, 2019, 243, 132-144.	10.1	111
56	Measurement of optical spectrum and mass spectrum in vacuum surface flashover for polymeric materials. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 593-600.	2.9	6
57	Self-heating effect on stability of a nanosecond pulsed DBD interacting with heptane and methylnaphthalene as heavy oil model compounds. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 431-438.	2.9	13
58	Nanosecond pulsed uniform dielectric barrier discharge in atmospheric air: A brief spectroscopic analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 207, 294-300.	3.9	21
59	Strong Excitonâ€“Photon Coupling in Hybrid Inorganicâ€“Organic Perovskite Micro/Nanowires. Advanced Optical Materials, 2018, 6, 1701032.	7.3	114
60	Deposition of SiC_xH_yO_zthin film on epoxy resin by nanosecond pulsed APPJ for improving the surface insulating performance. Plasma Science and Technology, 2018, 20, 025504.	1.5	42
61	Deficiency of Î³ÎT cells protects against abdominal aortic aneurysms by regulating phosphoinositide 3-kinase/AKT signaling. Journal of Vascular Surgery, 2018, 67, 899-908.e1.	1.1	16
62	Effects of nanosecond pulse voltage parameters on characteristics of surface charge for epoxy resin. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2058-2066.	2.9	22
63	Time-resolved characteristics and chemical kinetics of non-oxidative methane conversion in repetitively pulsed dielectric barrier discharge plasmas. Journal Physics D: Applied Physics, 2018, 51, 274005.	2.8	35
64	Highly efficient conversion of methane using microsecond and nanosecond pulsed spark discharges. Applied Energy, 2018, 226, 534-545.	10.1	99
65	Bio-Oil Heavy Fraction as a Feedstock for Hydrogen Generation via Chemical Looping Process: Reactor Design and Hydrodynamic Analysis. International Journal of Chemical Reactor Engineering, 2017, 15, .	1.1	2
66	Structure analysis and microwave dielectric properties of germanium ion-doped ZnZrNb2O8 ceramics. Journal of Materials Science: Materials in Electronics, 2017, 28, 9755-9762.	2.2	5
67	Large-scale 2D PbI₂monolayers: experimental realization and their indirect band-gap related properties. Nanoscale, 2017, 9, 3736-3741.	5.6	98
68	Berberine modulates amyloid-Î² peptide generation by activating AMP-activated protein kinase. Neuropharmacology, 2017, 125, 408-417.	4.1	42
69	Uniformity optimization and dynamic studies of plasma jet array interaction in argon. Physics of Plasmas, 2017, 24, .	1.9	56
70	Plasma surface treatment to improve surface charge accumulation and dissipation of epoxy resin exposed to DC and nanosecond-pulse voltages. Journal Physics D: Applied Physics, 2017, 50, 405203.	2.8	93
71	Characterization of circRNA-Associated-ceRNA Networks in a Senescence-Accelerated Mouse Prone 8 Brain. Molecular Therapy, 2017, 25, 2053-2061.	8.2	109
72	Nanosecond pulsed dielectric barrier discharge plasma-catalytic removal of HCHO in humid air. EPJ Applied Physics, 2017, 78, 20803.	0.7	7

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73	Analyses of mRNA Profiling through RNA Sequencing on a SAMP8 Mouse Model in Response to Ginsenoside Rg1 and Rb1 Treatment. Frontiers in Pharmacology, 2017, 8, 88.	3.5	18
74	A New Hemihydrate of Valacyclovir Hydrochloride. Crystals, 2017, 7, 140.	2.2	1
75	Propagation of Surface Ionization Wave in NS-Pulse Dielectric Barrier Discharge in Atmospheric Pressure Air. , 2017, , .		0
76	The Properties of HgCdTe/graphene Composite Thin Film with Different Layer Graphene. , 2017, , .		0
77	Vertical, capacitive microelectromechanical switches produced via direct writing of copper wires. Microsystems and Nanoengineering, 2016, 2, 16010.	7.0	20
78	Sulfonated polyimide/chitosan composite membranes for a vanadium redox flow battery: influence of the sulfonation degree of the sulfonated polyimide. Polymer Journal, 2016, 48, 905-918.	2.7	19
79	Ginsenoside Re reduces AÎ² production by activating PPARÎ³ to inhibit BACE1 in N2a/APP695 cells. European Journal of Pharmacology, 2016, 793, 101-108.	3.5	72
80	Experimental Study on Sound Characteristics Produced by DC Corona and Pulsed Discharges. IEEE Transactions on Plasma Science, 2016, 44, 2196-2203.	1.3	10
81	Plasma cracking methane for hydrogen production in a pulsed dielectric barrier discharge. , 2016, , .		0
82	Spectroscopic and electrical characters of SBD plasma excited by bipolar nanosecond pulse in atmospheric air. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 161, 186-194.	3.9	16
83	The OES Diagnosis in Removal of HCHO by the Uniform Bipolar Nanosecond-Pulsed DBD Using Wire-Cylinder Electrode Configuration in Atmospheric N2. IEEE Transactions on Plasma Science, 2016, 44, 3001-3008.	1.3	2
84	Deficiency of IL-12p35 improves cardiac repair after myocardial infarction by promoting angiogenesis. Cardiovascular Research, 2016, 109, 249-259.	3.8	47
85	Phase constitution, microstructures and microwave dielectric properties of CaxZn1â^'xZr0.8Sn0.2Nb2O8 ceramics. Journal of Materials Science: Materials in Electronics, 2016, 27, 1232-1238.	2.2	2
86	Sulfonated poly(imide-siloxane) membrane as a low vanadium ion permeable separator for a vanadium redox flow battery. Polymer Journal, 2015, 47, 701-708.	2.7	20
87	CdSe quantum dots/molecular cobalt catalyst co-grafted open porous NiO film as a photocathode for visible light driven H₂ evolution from neutral water. Journal of Materials Chemistry A, 2015, 3, 18852-18859.	10.3	72
88	Sulfonated polyimide/AlOOH composite membranes with decreased vanadium permeability and increased stability for vanadium redox flow battery. Journal of Solid State Electrochemistry, 2014, 18, 3479-3490.	2.5	39
89	Novel sulfonated polyimide/ZrO₂composite membrane as a separator of vanadium redox flow battery. Polymers for Advanced Technologies, 2014, 25, 1610-1615.	3.2	42
90	Atmospheric air diffuse array-needles dielectric barrier discharge excited by positive, negative, and bipolar nanosecond pulses in large electrode gap. Journal of Applied Physics, 2014, 116, .	2.5	19

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91	Overexpression of Heme Oxygenase 1 Causes Cognitive Decline and Affects Pathways for Tauopathy in Mice. Journal of Alzheimer's Disease, 2014, 43, 519-534.	2.6	34
92	An uniform DBD plasma excited by bipolar nanosecond pulse using wire-cylinder electrode configuration in atmospheric air. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 122, 107-112.	3.9	19
93	The influencing factors of nanosecond pulse homogeneous dielectric barrier discharge in air. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 117, 535-540.	3.9	18
94	A large-area diffuse air discharge plasma excited by nanosecond pulse under a double hexagon needle-array electrode. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 121, 698-703.	3.9	11
95	Electrical and optical characteristics of diffuse nanosecond pulsed discharge plasma using a needle-array electrode in atmospheric air. Journal of Applied Physics, 2014, 115, .	2.5	10
96	Atmospheric Pressure Gasâ€“Liquid Diffuse Nanosecond Pulse Discharge Used for Sterilization in Sewage. Plasma Processes and Polymers, 2014, 11, 842-849.	3.0	25
97	Optical and application study of gasâ€“liquid discharge excited by bipolar nanosecond pulse in atmospheric air. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 131, 571-576.	3.9	8
98	Multiple current peaks in room-temperature atmospheric pressure homogenous dielectric barrier discharge plasma excited by high-voltage tunable nanosecond pulse in air. Applied Physics Letters, 2013, 102, .	3.3	40
99	Effect of dielectric material on bipolar nanosecond pulse diffuse dielectric barrier discharge in air at atmospheric pressure. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 112, 223-227.	3.9	7
100	Processes of Raising Voltage and Reducing Voltage in Needle-Plate Dielectric Barrier Discharge. IEEE Transactions on Plasma Science, 2013, 41, 2527-2531.	1.3	1
101	Comparison of atmospheric air plasmas excited by high-voltage nanosecond pulsed discharge and sinusoidal alternating current discharge. Journal of Applied Physics, 2013, 114, .	2.5	44
102	Atmospheric air homogenous DBD plasma excited by bipolar nanosecond pulse used for improving the hydrophilic property of polypropylene. Europhysics Letters, 2013, 102, 65001.	2.0	20
103	Rotational, Vibrational, and Excitation Temperatures in Bipolar Nanosecond-Pulsed Diffuse Dielectric-Barrier-Discharge Plasma at Atmospheric Pressure. IEEE Transactions on Plasma Science, 2013, 41, 350-354.	1.3	24
104	The effect of dielectric thickness on diffuse nanosecond dielectric barrier discharges using a needle array-plate electrode configuration in air at atmospheric pressure. Journal of Applied Physics, 2013, 113, 233305.	2.5	15
105	An atmospheric air gas-liquid diffuse discharge excited by bipolar nanosecond pulse in quartz container used for water sterilization. Applied Physics Letters, 2013, 103, .	3.3	25
106	Determination of Fluorine, Chlorine and Bromine in Household Products by means of Oxygen Bomb Combustion and Ion Chromatography. Journal of Chromatographic Science, 2013, 51, 65-69.	1.4	22
107	A Total Solution to Baseline Separation of 20 Brominated Flame Retardant Additives in Electronic Products with Automated Soxhlet Hot Extraction and Gas Chromatographyâ€Mass Spectrometry. Journal of the Chinese Chemical Society, 2013, 60, 440-446.	1.4	0
108	Atmospheric-Pressure Diffuse Dielectric-Barrier-Discharge Plasma Generated by Bipolar Nanosecond Pulse in Nitrogen and Air. IEEE Transactions on Plasma Science, 2012, 40, 2191-2197.	1.3	4

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109	Experimental research of diffuse bi-directional pulsed dielectric barrier discharge plasma. Journal of Electrostatics, 2012, 70, 356-362.	1.9	11
110	Notice of Retraction: Optical-Damage-Resistant MgO-Diffused Near-Stoichiometric ${m Ti{:}LiNbO}_{3}$ Strip Waveguides. IEEE Photonics Technology Letters, 2012, 24, 491-493.	2.5	6
111	A homogeneous dielectric barrier discharge plasma excited by a bipolar nanosecond pulse in nitrogen and air. Plasma Sources Science and Technology, 2012, 21, 035004.	3.1	68
112	Optical Diagnosis of Atmospheric Pressure Gas-Liquid Diffuse Discharge Excited by Nanosecond Pulse Voltage. Advanced Materials Research, 0, 1058, 158-161.	0.3	0