Weizong Wang

List of Publications by Year
in descending order

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		218677	214800
68	2,364	26	47
papers	citations	h-index	g-index

69	69	69	1713
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nitrogen Fixation by Gliding Arc Plasma: Better Insight by Chemical Kinetics Modelling. ChemSusChem, 2017, 10, 2145-2157.	6.8	155
2	Streamer propagation in a packed bed plasma reactor for plasma catalysis applications. Chemical Engineering Journal, 2018, 334, 2467-2479.	12.7	141
3	Ammonia Synthesis by Radio Frequency Plasma Catalysis: Revealing the Underlying Mechanisms. ACS Applied Energy Materials, 2018, 1, 4824-4839.	5.1	116
4	Gliding Arc Plasmatron: Providing an Alternative Method for Carbon Dioxide Conversion. ChemSusChem, 2017, 10, 2642-2652.	6.8	114
5	Modeling Plasma-based CO₂ and CH₄ Conversion in Mixtures with N₂, O₂, and H₂O: The Bigger Plasma Chemistry Picture. Journal of Physical Chemistry C, 2018, 122, 8704-8723.	3.1	111
6	Gliding arc plasma for CO2 conversion: Better insights by a combined experimental and modelling approach. Chemical Engineering Journal, 2017, 330, 11-25.	12.7	97
7	CO₂conversion by plasma technology: insights from modeling the plasma chemistry and plasma reactor design. Plasma Sources Science and Technology, 2017, 26, 063001.	3.1	90
8	Modeling plasma-based CO₂conversion: crucial role of the dissociation cross section. Plasma Sources Science and Technology, 2016, 25, 055016.	3.1	87
9	Plasma activation of methane for hydrogen production in a N2 rotating gliding arc warm plasma: A chemical kinetics study. Chemical Engineering Journal, 2018, 345, 67-78.	12.7	81
10	MicroRNA-1 Accelerates the Shortening of Atrial Effective Refractory Period by Regulating KCNE1 and KCNB2 Expression: An Atrial Tachypacing Rabbit Model. PLoS ONE, 2013, 8, e85639.	2.5	72
11	Simulation of Arc Characteristics in Miniature Circuit Breaker. IEEE Transactions on Plasma Science, 2010, 38, 2306-2311.	1.3	71
12	Thermophysical properties of nitrogen plasmas under thermal equilibrium and non-equilibrium conditions. Physics of Plasmas, 2011, 18, .	1.9	68
13	CO₂conversion in a gliding arc plasma: 1D cylindrical discharge model. Plasma Sources Science and Technology, 2016, 25, 065012.	3.1	65
14	Altered long non-coding RNA expression profile in rabbit atria with atrial fibrillation: TCONS_00075467 modulates atrial electrical remodeling by sponging miR-328 to regulate CACNA1C. Journal of Molecular and Cellular Cardiology, 2017, 108, 73-85.	1.9	64
15	Burning questions of plasma catalysis: Answers by modeling. Catalysis Today, 2019, 337, 3-14.	4.4	62
16	Warm plasma activation of CO2 in a rotating gliding arc discharge reactor. Journal of CO2 Utilization, 2018, 27, 472-479.	6.8	60
17	Thermophysical properties of carbonâ€“argon and carbonâ€“helium plasmas. Journal Physics D: Applied Physics, 2011, 44, 355207.	2.8	48
18	CO₂ Conversion in a Gliding Arc Plasmatron: Multidimensional Modeling for Improved Efficiency. Journal of Physical Chemistry C, 2017, 121, 24470-24479.	3.1	46

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19	Association of pre-ablation level of potential blood markers with atrial fibrillation recurrence after catheter ablation: a meta-analysis. Europace, 2017, 19, euw088.	1.7	42
20	Investigation on critical breakdown electric field of hot sulfur hexafluoride/carbon tetrafluoride mixtures for high voltage circuit breaker applications. Journal of Applied Physics, 2013, 114, 103301.	2.5	41
21	Thermodynamic and transport properties of two-temperature SF6 plasmas. Physics of Plasmas, 2012, 19, .	1.9	39
22	Importance of surface charging during plasma streamer propagation in catalyst pores. Plasma Sources Science and Technology, 2018, 27, 065009.	3.1	35
23	Plasma-based multi-reforming for Gas-To-Liquid: tuning the plasma chemistry towards methanol. Scientific Reports, 2018, 8, 15929.	3.3	33
24	The dynamic evolution and interaction with dielectric material of the discharge in packed bed reactor. Plasma Sources Science and Technology, 2020, 29, 055004.	3.1	29
25	Theoretical investigation of the decay of an SF₆gas-blast arc using a two-temperature hydrodynamic model. Journal Physics D: Applied Physics, 2013, 46, 065203.	2.8	28
26	Thermophysical Properties of High-Temperature Reacting Mixtures of Carbon and Water in the Range 400â€“30,000 K and 0.1â€“10 atm. Part 1: Equilibrium Composition and Thermodynamic Properties. Plasma Chemistry and Plasma Processing, 2012, 32, 75-96.	2.4	27
27	Dielectric breakdown properties of hot SF6/He mixtures predicted from basic data. Physics of Plasmas, 2013, 20, .	1.9	27
28	Perioperative Anticoagulation Management in Patients on Chronic Oral Anticoagulant Therapy Undergoing Cardiac Devices Implantation: A Metaâ€Analysis. PACE - Pacing and Clinical Electrophysiology, 2014, 37, 1573-1586.	1.2	27
29	The Reactive Thermal Conductivity of Thermal Equilibrium and Nonequilibrium Plasmas: Application to Nitrogen. IEEE Transactions on Plasma Science, 2012, 40, 980-989.	1.3	25
30	Transcriptome Analysis of Canine Cardiac Fat Pads: Involvement of Two Novel Long Non-Coding RNAs in Atrial Fibrillation Neural Remodeling. Journal of Cellular Biochemistry, 2015, 116, 809-821.	2.6	25
31	Quasiâ€Neutral Modeling of Gliding Arc Plasmas. Plasma Processes and Polymers, 2017, 14, 1600110.	3.0	24
32	Modelling of plasma-based dry reforming: how do uncertainties in the input data affect the calculation results?. Journal Physics D: Applied Physics, 2018, 51, 204003.	2.8	24
33	Thermophysical Properties of High Temperature Reacting Mixtures of Carbon and Water in the Range 400â€“30,000ÂK and 0.1â€“10Âatm. Part 2: Transport Coefficients. Plasma Chemistry and Plasma Processing, 2012, 32, 495-518.	2.4	23
34	Effective ionisation coefficients and critical breakdown electric field of CO₂at elevated temperature: effect of excited states and ion kinetics. Plasma Sources Science and Technology, 2016, 25, 055025.	3.1	23
35	Theoretical computation of thermophysical properties of high-temperature F₂, CF₄, C₂F₂, C₂F₄, C₂F₆, C₃F₆ and C₃F₈ plasmas. Journal Physics D: Applied Physics, 2012, 45, 285201.	2.8	22
36	Prediction of critical dielectric strength of hot CF₄ gas in the temperature range of 300-3500 K. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 129-137.	2.9	21

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37	Investigation of ${m SF}_{6}$ Arc Characteristics Under Shock Condition in a Supersonic Nozzle With Hollow Contact. IEEE Transactions on Plasma Science, 2013, 41, 915-928.	1.3	20
38	Wall ablation of heated compound-materials into non-equilibrium discharge plasmas. Journal Physics D: Applied Physics, 2017, 50, 074005.	2.8	19
39	Fundamental properties of high-temperature SF₆mixed with CO₂as a replacement for SF₆in high-voltage circuit breakers. Journal Physics D: Applied Physics, 2014, 47, 255201.	2.8	18
40	Long-Term Effects of Ganglionated Plexi Ablation on Electrophysiological Characteristics and Neuron Remodeling in Target Atrial Tissues in a Canine Model. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 1276-1283.	4.8	18
41	Nitrogen Fixation by Gliding Arc Plasma: Better Insight by Chemical Kinetics Modelling. ChemSusChem, 2017, 10, 2110-2110.	6.8	17
42	Nonuniqueness of two-temperature Guldberg-Waage and Saha equations: Influence on thermophysical properties of SF6 plasmas. Physics of Plasmas, 2013, 20, .	1.9	16
43	Plasma propagation in a single bead DBD reactor at different dielectric constants: insights from fluid modelling. Journal Physics D: Applied Physics, 2021, 54, 214004.	2.8	16
44	Molecular dynamics simulation of ionic liquid electrospray: Revealing the effects of interaction potential models. Acta Astronautica, 2021, 179, 581-593.	3.2	14
45	Numerical analysis of direct-current microdischarge for space propulsion applications using the particle-in-cell/Monte Carlo collision (PIC/MCC) method. Journal Physics D: Applied Physics, 2017, 50, 165203.	2.8	13
46	Sputtering distribution of LIPS200 ion thruster plume. Acta Astronautica, 2019, 160, 7-14.	3.2	13
47	H2S Decomposition into H2 and S2 by Plasma Technology: Comparison of Gliding Arc and Microwave Plasma. Plasma Chemistry and Plasma Processing, 2020, 40, 1163-1187.	2.4	13
48	Transport Coefficients of High Temperature SF6â€“He Mixtures Used in Switching Applications as an Alternative to Pure SF6. Plasma Chemistry and Plasma Processing, 2014, 34, 899-916.	2.4	11
49	Ionic liquid electrospray behavior in a hybrid emitter electrospray thruster. International Journal of Heat and Mass Transfer, 2021, 175, 121369.	4.8	11
50	Molecular dynamics simulation of ionic liquid electrospray: Microscopic presentation of the effects of mixed ionic liquids. International Journal of Heat and Mass Transfer, 2022, 182, 121983.	4.8	11
51	Exosomes secreted from mesenchymal stem cells mediate the regeneration of endothelial cells treated with rapamycin by delivering pro-angiogenic microRNAs. Experimental Cell Research, 2021, 399, 112449.	2.6	9
52	Influence of the upstream axial magnetic mirror field on the plume characteristics in the full cylindrical Hall thruster. Acta Astronautica, 2022, 196, 186-193.	3.2	9
53	Numerical investigation of plasma behavior in a micro DC ion thruster using the particle-in-cell/Monte Carlo collision (PIC/MCC) method. Journal Physics D: Applied Physics, 2021, 54, 445202.	2.8	8
54	Permeation by Electrowetting Actuation: Revealing the Prospect of a Micro-valve Based on Ionic Liquid. Journal of Colloid and Interface Science, 2022, 608, 114-119.	9.4	8

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55	Radio-frequency biasing of ion acceleration grids with different propellants. Plasma Sources Science and Technology, 2022, 31, 035009.	3.1	8
56	Dry reforming of methane in a nanosecond repetitively pulsed discharge: chemical kinetics modeling. Plasma Sources Science and Technology, 2022, 31, 055014.	3.1	8
57	Influence of ablated PTFE vapor entrainment on critical dielectric strength of hot SF6gas. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 1478-1485.	2.9	7
58	Thermodynamic properties and transport coefficients of a two-temperature polytetrafluoroethylene vapor plasma for ablation-controlled discharge applications. Journal Physics D: Applied Physics, 2017, 50, 395204.	2.8	6
59	Association of dipeptidyl peptidase IV polymorphism, serum lipid profile, and coronary artery stenosis in patients with coronary artery disease and type 2 diabetes. Medicine (United States), 2021, 100, e25209.	1.0	6
60	Atrial Heterogeneous Autonomic Neural Remodeling in Rabbits with Experimental Atrial Fibrillation and the Effect of Intervention by Rosuvastatin. PACE - Pacing and Clinical Electrophysiology, 2016, 39, 598-606.	1.2	4
61	Longâ€Term Effects of Atrial Ganglionated Plexi Ablation on Function and Structure of Sinoatrial and Atrioventricular Node in Canine. PACE - Pacing and Clinical Electrophysiology, 2015, 38, 1181-1191.	1.2	3
62	Mode transition of the cylindrical Hall thruster with the near-anode cusp magnetic field. Plasma Sources Science and Technology, 2022, 31, 045004.	3.1	3
63	Transport coefficients of high temperature CF<inf>4</inf>, C<inf>2</inf>F<inf>6</inf>, and C<inf>3</inf>F<inf>8</inf> as candidate of SF<inf>6</inf>. , 2011, , .		2
64	Transport Coefficients of High Temperature SF₆in Local Thermodynamic Equilibrium Using a Phenomenological Approach. Chinese Physics Letters, 2014, 31, 035202.	3.3	2
65	Numerical investigation of ion collection by a planar probe in stationary and parallel flowing plasmas. Journal Physics D: Applied Physics, 2021, 54, 245202.	2.8	2
66	Plume neutralization of ionic liquid electrospray thruster: Better insights from Particle-in-cell modelling. Plasma Sources Science and Technology, 0, , .	3.1	2
67	A study on the ionization mechanisms in a miniaturized cylindrical Hall thruster. Vacuum, 2022, 201, 111060.	3.5	2
68	Modeling for a Better Understanding of Plasma-Based CO2 Conversion. , 2018, , .		1