De-Zheng Yang

List of Publications by Year
in descending order

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		394421	414414
55	1,192	19	32
papers	citations	h-index	g-index

56	56	56	849
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly efficient adsorptive removal of persistent organic pollutants using NPD-acid combined modified NaY zeolites. Chemical Engineering Journal, 2022, 431, 133858.	12.7	15
2	The influences of shielding gas and quartz tube on discharge properties and reactive species productions of nanosecond pulsed gasâ€“liquid discharge. Journal Physics D: Applied Physics, 2022, 55, 195204.	2.8	2
3	Degradation of persistent organic pollutants in soil by parallel tubes-array dielectric barrier discharge plasma cooperating with catalyst. Chemical Engineering Journal, 2022, 437, 135089.	12.7	13
4	Degradation of Benzene Using Dielectric Barrier Discharge Plasma Combined with Transition Metal Oxide Catalyst in Air. Catalysts, 2022, 12, 203.	3.5	6
5	The Effect of Voltage Pulse Shape on the Discharge Characteristics in the Packed Bed Reactor under Air and Nitrogen. Applied Sciences (Switzerland), 2022, 12, 2215.	2.5	0
6	A Review on Modification Methods of Adsorbents for Naphthalene in Environment. Catalysts, 2022, 12, 398.	3.5	6
7	Dry reforming of methane in a nanosecond repetitively pulsed discharge: chemical kinetics modeling. Plasma Sources Science and Technology, 2022, 31, 055014.	3.1	8
8	In Situ Detection of Trace Heavy Metal Cu in Water by Atomic Emission Spectrometry of Nebulized Discharge Plasma at Atmospheric Pressure. Applied Sciences (Switzerland), 2022, 12, 4939.	2.5	3
9	Decomposition of Naphthalene by Dielectric Barrier Discharge in Conjunction with a Catalyst at Atmospheric Pressure. Catalysts, 2022, 12, 740.	3.5	3
10	Ultra-high synergetic intensity for humic acid removal by coupling bubble discharge with activated carbon. Journal of Hazardous Materials, 2021, 403, 123626.	12.4	25
11	CO2 conversion in a coaxial dielectric barrier discharge plasma reactor in the presence of mixed ZrO2-CeO2. Journal of Environmental Chemical Engineering, 2021, 9, 104654.	6.7	16
12	Degradation of trimethoprim in aqueous by persulfate activated with nanosecond pulsed gas-liquid discharge plasma. Journal of Environmental Management, 2021, 278, 111539.	7.8	30
13	Enhancing the adsorption property of macroporous XADâ€2 resin by nanosecondâ€pulsed discharge plasma modification. Plasma Processes and Polymers, 2021, 18, 2000117.	3.0	8
14	Discharge modes and characteristics optimization of nanosecond pulsed discharge in packed bed reactor. Journal Physics D: Applied Physics, 2021, 54, 245206.	2.8	10
15	Degradation of methylene blue in liquid using high-voltage pulsed discharge plasma synergizing iron-based catalyst-activated persulfate. Journal Physics D: Applied Physics, 2021, 54, 244002.	2.8	18
16	Temporal resolved atomic emission spectroscopy on a pulsed electrolyte cathode discharge for improving the detection sensitivity of Cu. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 177, 106072.	2.9	5
17	Discharge characteristics and reactive species production of unipolar and bipolar nanosecond pulsed gasâ€“liquid discharge generated in atmospheric N₂. Plasma Science and Technology, 2021, 23, 095405.	1.5	4
18	XAD-2 resin modified by nanosecond pulsed discharge to improve the adsorption capacity of polycyclic aromatic hydrocarbons. Journal Physics D: Applied Physics, 2021, 54, 025202.	2.8	6

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19	Mode transition and plasma characteristics of nanosecond pulse gasâ€“liquid discharge: Effect of grounding configuration. Plasma Processes and Polymers, 2020, 17, 1900146.	3.0	29
20	The single-Mo-atom-embedded-graphdiyne monolayer with ultra-low onset potential as high efficient electrocatalyst for N2 reduction reaction. Applied Surface Science, 2020, 506, 144941.	6.1	48
21	Comparison of gas phase discharge and gas-liquid discharge for water activation and methylene blue degradation. Vacuum, 2020, 181, 109644.	3.5	15
22	Review of the distribution and detection methods of heavy metals in the environment. Analytical Methods, 2020, 12, 5747-5766.	2.7	104
23	Plasma characteristics and mode transition of atmospheric pressure gasâ€“liquid discharge oxygen plasma. Journal of Applied Physics, 2020, 128, 093303.	2.5	15
24	A DFT screening of single transition atoms supported on MoS₂ as highly efficient electrocatalysts for the nitrogen reduction reaction. Nanoscale, 2020, 12, 10035-10043.	5.6	94
25	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
26	A Review of Recent Advances of Dielectric Barrier Discharge Plasma in Catalysis. Nanomaterials, 2019, 9, 1428.	4.1	73
27	DBD Plasma Combined with Different Foam Metal Electrodes for CO2 Decomposition: Experimental Results and DFT Validations. Nanomaterials, 2019, 9, 1595.	4.1	13
28	Discharge Regimes Transition and Characteristics Evolution of Nanosecond Pulsed Dielectric Barrier Discharge. Nanomaterials, 2019, 9, 1381.	4.1	17
29	Characteristic study of a transient spark driven by a nanosecond pulse power in atmospheric nitrogen using a water cathode. Journal of Applied Physics, 2019, 125, .	2.5	15
30	A pulsed electrolyte cathode discharge used for metal element analysis by atomic emission spectrometry. Physics of Plasmas, 2019, 26, .	1.9	15
31	Measurement of reactive species in different solutions of bubble discharge with varying O₂/N₂ proportion in Ar: Analysis of reaction pathways. Plasma Processes and Polymers, 2019, 16, e1900001.	3.0	21
32	Temporal evolution of the relative vibrational population of N2 (C³â^_u) and optical emission spectra of atmospheric pressure plasma jets in He mixtures. Journal Physics D: Applied Physics, 2019, 52, 285203.	2.8	16
33	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
34	Controlling of reactive species in atmospheric Ar bubble discharge by adding N₂/O₂^a. Plasma Processes and Polymers, 2019, 16, 1800124.	3.0	22
35	Detection of trace heavy metals using atmospheric pressure glow discharge by optical emission spectra. High Voltage, 2019, 4, 228-233.	4.7	22
36	Hydrophilicity modification of aramid fiber using a linear shape plasma excited by nanosecond pulse. Surface and Coatings Technology, 2018, 344, 614-620.	4.8	43

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37	Atmospheric air dielectric barrier discharge excited by nanosecond pulse and AC used for improving the hydrophilicity of aramid fibers. Plasma Science and Technology, 2017, 19, 125401.	1.5	19
38	Direct synthesis of AlN nano powder by dielectric barrier discharge plasma assisted high-energy ball milling. Journal of Materials Science: Materials in Electronics, 2016, 27, 8518-8523.	2.2	11
39	Needle-array to Plate DBD Plasma Using Sine AC and Nanosecond Pulse Excitations for Purpose of Improving Indoor Air Quality. Scientific Reports, 2016, 6, 25242.	3.3	29
40	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
41	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
42	Effect of Different Precursors on Synthesized AlN by Plasma-Assisted Ball Milling. Materials and Manufacturing Processes, 2016, 31, 1583-1588.	4.7	3
43	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
44	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
45	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
46	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
47	Atmospheric Pressure Gasâ€“Liquid Diffuse Nanosecond Pulse Discharge Used for Sterilization in Sewage. Plasma Processes and Polymers, 2014, 11, 842-849.	3.0	25
48	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
49	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
50	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
51	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
52	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
53	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
54	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

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55	Production of atmospheric pressure diffuse nanosecond pulsed dielectric barrier discharge using the array needles-plate electrode in air. Journal of Applied Physics, 2011, 109, .	2.5	37