

Wei-Dong Xia

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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.

63

papers

836

citations

15

h-index

26

g-index

68

ext. papers

1,035

ext. citations

3.1

avg, IF

4.26

L-index

#	Paper	IF	Citations
63	Effects and Mechanism of Atmospheric-Pressure Dielectric Barrier Discharge Cold Plasma on Lactate Dehydrogenase (LDH) Enzyme. <i>Scientific Reports</i> , 2015 , 5, 10031	4.9	92
62	Characteristics of DC Gas-Liquid Phase Atmospheric-Pressure Plasma and Bacteria Inactivation Mechanism. <i>Plasma Processes and Polymers</i> , 2015 , 12, 252-259	3.4	56
61	Inactivation Effects of Non-Thermal Atmospheric-Pressure Helium Plasma Jet on Staphylococcus aureus Biofilms. <i>Plasma Processes and Polymers</i> , 2015 , 12, 827-835	3.4	53
60	Preferential production of reactive species and bactericidal efficacy of gas-liquid plasma discharge. <i>Chemical Engineering Journal</i> , 2019 , 362, 402-412	14.7	52
59	Bactericidal Effects of Plasma Induced Reactive Species in Dielectric Barrier Gas-Liquid Discharge. <i>Plasma Chemistry and Plasma Processing</i> , 2017 , 37, 415-431	3.6	46
58	A numerical model of non-equilibrium thermal plasmas. I. Transport properties. <i>Physics of Plasmas</i> , 2013 , 20, 033508	2.1	37
57	Dynamics of large-scale magnetically rotating arc plasmas. <i>Applied Physics Letters</i> , 2006 , 88, 211501	3.4	36
56	Ozone Generation by Hybrid Discharge Combined with Catalysis. <i>Ozone: Science and Engineering</i> , 2007 , 29, 107-112	2.4	34
55	Selective effects of non-thermal atmospheric plasma on triple-negative breast normal and carcinoma cells through different cell signaling pathways. <i>Scientific Reports</i> , 2017 , 7, 7980	4.9	26
54	Genetic effects of an air discharge plasma on Staphylococcus aureus at the gene transcription level. <i>Applied Physics Letters</i> , 2015 , 106, 213701	3.4	26
53	A numerical model of non-equilibrium thermal plasmas. II. Governing equations. <i>Physics of Plasmas</i> , 2013 , 20, 033509	2.1	22
52	Effect of the Magnetic Field on the Magnetically Stabilized Gliding Arc Discharge and Its Application in the Preparation of Carbon Black Nanoparticles. <i>Plasma Chemistry and Plasma Processing</i> , 2018 , 38, 1223-1238	3.6	20
51	The morphological transformation of carbon materials from nanospheres to graphene nanoflakes by thermal plasma. <i>Carbon</i> , 2019 , 155, 521-530	10.4	18
50	Continuous synthesis of graphene nano-flakes by a magnetically rotating arc at atmospheric pressure. <i>Carbon</i> , 2019 , 148, 394-402	10.4	17
49	Numerical Study of DC Argon Arc with Axial Magnetic Fields. <i>Plasma Chemistry and Plasma Processing</i> , 2015 , 35, 61-74	3.6	17
48	Synthesis of carbon nanoparticles in a non-thermal plasma process. <i>Chemical Engineering Science</i> , 2020 , 227, 115921	4.4	14
47	Roles of membrane protein damage and intracellular protein damage in death of bacteria induced by atmospheric-pressure air discharge plasmas. <i>RSC Advances</i> , 2018 , 8, 21139-21149	3.7	14

46	Comparison of the Effects Induced by Plasma Generated Reactive Species and H ₂ O ₂ on Lactate Dehydrogenase (LDH) Enzyme. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 2742-2752	1.3	13
45	Observation of Thermal Cathodic Hot Spots in a Magnetically Rotating Arc Plasma Generator. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 3716-3720	1.3	12
44	Synthesis of graphene flakes using a non-thermal plasma based on magnetically stabilized gliding arc discharge. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020 , 28, 846-856	1.8	12
43	Simulation of Magnetically Dispersed Arc Plasma. <i>Plasma Science and Technology</i> , 2012 , 14, 118-121	1.5	12
42	ICCD Imaging of Coexisting Arc Roots and Arc Column in a Large-Area Dispersed Arc-Plasma Source. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1084-1085	1.3	11
41	Effects of Buffer Gases on Graphene Flakes Synthesis in Thermal Plasma Process at Atmospheric Pressure. <i>Nanomaterials</i> , 2020 , 10,	5.4	10
40	Direct Observation of Anode Arc Root Behaviors in a Non-transferred Arc Plasma Device with Multiple Cathodes. <i>Plasma Chemistry and Plasma Processing</i> , 2017 , 37, 371-382	3.6	9
39	Experimental Observations of Constricted and Diffuse Anode Attachment in a Magnetically Rotating Arc at Atmospheric Pressure. <i>Plasma Chemistry and Plasma Processing</i> , 2019 , 39, 407-421	3.6	9
38	Evolution of magnetically rotating arc into large area arc plasma. <i>Chinese Physics B</i> , 2015 , 24, 065206	1.2	9
37	Phenomena of Multiarc Roots and Parallel Arcs in a Large-Scale Magnetically Rotating Arc Plasma Generator. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 601-605	1.3	9
36	Axial Magnetic Field Effects on Xenon Short-Arc Lamps. <i>Plasma Science and Technology</i> , 2014 , 16, 1096-1099		9
35	Diffuse and spot mode of cathode arc attachments in an atmospheric magnetically rotating argon arc. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 085202	3	8
34	Effects of nitrogen on ozone synthesis in packed-bed dielectric barrier discharge. <i>Plasma Science and Technology</i> , 2018 , 20, 095501	1.5	8
33	Synthesis of few-layer graphene flakes by magnetically rotating arc plasma: effects of input power and feedstock injection position. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	7
32	Study of Non-Thermal DC Arc Plasma of CH ₄ /Ar at Atmospheric Pressure Using Optical Emission Spectroscopy and Mass Spectrometry. <i>Plasma Science and Technology</i> , 2015 , 17, 743-748	1.5	7
31	Hydrogen production by reforming methane in a corona inducing dielectric barrier discharge and catalyst hybrid reactor. <i>Science Bulletin</i> , 2011 , 56, 2162-2166		7
30	Evolution of Cathodic Arc Roots in a Large-Scale Magnetically Rotating Arc Plasma. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1048-1049	1.3	7
29	An Experimental Investigation of Cathode Spot Motion in a Magnetically Rotating Arc Plasma Generator at Atmospheric Pressure. <i>Plasma Chemistry and Plasma Processing</i> , 2019 , 39, 259-276	3.6	7

28	Synthesis of Ultrasmall NiCo ₂ O ₄ Nanoparticle-Decorated N-Doped Graphene Nanosheets as an Effective Catalyst for Zn/Air Batteries. <i>Energy & Fuels</i> , 2021 , 35, 14188-14196	4.1	7
27	Thermal and electrical influences from bulk plasma in cathode heating modeling. <i>Plasma Sources Science and Technology</i> , 2017 , 26, 025002	3.5	6
26	Parametric Study on Arc Behavior of Magnetically Diffused Arc. <i>Plasma Science and Technology</i> , 2016 , 18, 6-11	1.5	6
25	Spot and diffuse mode of cathode attachments in a magnetically rotating arc plasma generator at atmospheric pressure. <i>Journal of Applied Physics</i> , 2019 , 125, 033301	2.5	6
24	Observation of arc modes in a magnetically rotating arc plasma generator. <i>Contributions To Plasma Physics</i> , 2017 , 57, 395-403	1.4	5
23	Comparison of thermal and electric characteristic for free-burning arc using coupled and decoupled sheath models. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 425202	3	5
22	Images of a Large-Scale Magnetically Rotating Arc. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1080-1081	1.3	5
21	Approximate explicit analytic solution of the Elenbaas-Heller equation. <i>Journal of Applied Physics</i> , 2016 , 120, 063304	2.5	5
20	Pressure-dependent synthesis of graphene nanoflakes using Ar/H ₂ /CH ₄ non-thermal plasma based on rotating arc discharge. <i>Diamond and Related Materials</i> , 2021 , 111, 108176	3.5	5
19	Production of long, laminar plasma jets at atmospheric pressure with multiple cathodes. <i>Contributions To Plasma Physics</i> , 2017 , 57, 58-66	1.4	4
18	Effects of hydrogen/carbon molar ratio on graphene nano-flakes synthesis by a non-thermal plasma process. <i>Diamond and Related Materials</i> , 2020 , 108, 107932	3.5	4
17	Continuous preparation of carbon nano-onions in a non-thermal plasma process. <i>Materials Letters</i> , 2020 , 272, 127808	3.3	4
16	Axial Magnetic-Field Effects on an Argon Arc Between Pin and Plate Electrodes at Atmospheric Pressure. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1078-1079	1.3	4
15	Synthesis of ultrafine silicon carbide nanoparticles using nonthermal arc plasma at atmospheric pressure. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3883-3894	3.8	4
14	Simple synthesis of ultrafine amorphous silicon carbide nanoparticles by atmospheric plasmas. <i>Materials Letters</i> , 2021 , 299, 130072	3.3	4
13	Production of a large area diffuse arc plasma with multiple cathode. <i>Chinese Physics B</i> , 2017 , 26, 025202	1.2	3
12	Comparison of Reynolds average Navier-Stokes turbulence models in numerical simulations of the DC arc plasma torch. <i>Plasma Science and Technology</i> , 2020 , 22, 025401	1.5	3
11	Differential sensitivities of HeLa and MCF-7 cells at G1-, S-, G2- and M-phase of the cell cycle to cold atmospheric plasma. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 125202	3	3

10	Products on electrodes in an argon-methane magnetically rotating arc at atmospheric pressure. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019 , 27, 498-505	1.8	2
9	Back Cover: Plasma Process. Polym. 2015 . <i>Plasma Processes and Polymers</i> , 2015 , 12, 298-298	3.4	1
8	Modification of plasma-generated SiC nanoparticles by heat treatment under air atmosphere. <i>Journal of Alloys and Compounds</i> , 2022 , 900, 163507	5.7	1
7	In situ synthesis of nitrogen-doped graphene nanoflakes using non-thermal arc plasma. <i>Journal of Applied Physics</i> , 2021 , 129, 213304	2.5	1
6	Large-scale in-situ synthesis of nitrogen-doped graphene using magnetically rotating arc plasma. <i>Diamond and Related Materials</i> , 2021 , 116, 108417	3.5	1
5	Study on formation mechanism of three types of carbon nanoparticles during ethylene pyrolysis in thermal plasmas. <i>Diamond and Related Materials</i> , 2021 , 117, 108445	3.5	1
4	The Effects of Graphite Particles on arc Plasma Characteristics. <i>Plasma Chemistry and Plasma Processing</i> , 2021 , 41, 1183	3.6	0
3	Three-dimensional non-equilibrium modeling of a DC multi-cathode arc plasma torch. <i>Plasma Science and Technology</i> , 2021 , 23, 075404	1.5	0
2	One-step synthesis of SiC/C nanocomposites by atmospheric thermal plasmas for efficient microwave absorption. <i>Ceramics International</i> , 2022 , 48, 10391-10402	5.1	0
1	A novel anode attachment mode in argon-helium free-burning arcs at atmospheric pressure. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 3114-3117	2.3	