

# Jiting Ouyang

## List of Publications by Year in descending order

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62  
papers

549  
citations

687363

13  
h-index

794594

19  
g-index

76  
all docs

76  
docs citations

76  
times ranked

459  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear phenomena in dielectric barrier discharges: pattern, striation and chaos. Plasma Science and Technology, 2018, 20, 103002.	1.5	37
2	Trichel pulse in various gases and the key factor for its formation. Scientific Reports, 2017, 7, 10135.	3.3	29
3	Experiments on the characteristics of underwater electrical wire explosions for reservoir stimulation. Matter and Radiation at Extremes, 2020, 5, .	3.9	28
4	Diagnosis of helicon plasma by local OES. Plasma Sources Science and Technology, 2020, 29, 015018.	3.1	26
5	Electrical characteristics and formation mechanism of atmospheric pressure plasma jet. Applied Physics Letters, 2014, 104, .	3.3	22
6	Experiments on plasma dynamics of electrical wire explosion in air. High Voltage, 2022, 7, 117-136.	4.7	22
7	Time-resolved analysis and optical diagnostics of Trichel corona in atmospheric air. Journal Physics D: Applied Physics, 2016, 49, 245206.	2.8	21
8	The discharge characteristics in nitrogen helicon plasma. Physics of Plasmas, 2017, 24, .	1.9	19
9	Development from dielectric barrier discharge to atmospheric pressure plasma jet in helium: experiment and fluid modeling. Journal Physics D: Applied Physics, 2018, 51, 405202.	2.8	18
10	Effect of external electric and magnetic field on propagation of atmospheric pressure plasma jet. Physics of Plasmas, 2017, 24, .	1.9	17
11	Self-pulsing operating mode of hollow cathode discharge in noble gas. Physics of Plasmas, 2012, 19, 023504.	1.9	15
12	Plasma medicine for neuroscience—an introduction. Chinese Neurosurgical Journal, 2019, 5, 25.	0.9	15
13	Influence of neutral depletion on blue core in argon helicon plasma. Physics of Plasmas, 2021, 28, .	1.9	15
14	Axial profiles of argon helicon plasma by optical emission spectroscopy and Langmuir probe. Plasma Science and Technology, 2019, 21, 074009.	1.5	14
15	Spatial—temporal evolution of plasma radiation in electrical wire explosion: a morphological observation. Journal Physics D: Applied Physics, 2020, 53, 345201.	2.8	14
16	Microwaves Scattering by Underdense Inhomogeneous Plasma Column. Plasma Science and Technology, 2016, 18, 266-272.	1.5	13
17	Comparison between Trichel pulse in negative corona and self-pulsing in other configurations. Physics of Plasmas, 2018, 25, .	1.9	13
18	Synthesis and performance characterization of an efficient coal dust suppressant for synergistic combustion with coal dust. Journal of Environmental Management, 2020, 269, 110854.	7.8	13

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19	Study of axial double layer in helicon plasma by optical emission spectroscopy and simple probe. <i>Plasma Science and Technology</i> , 2018, 20, 075402.	1.5	12
20	Influence of nitrogen and oxygen admixture on the development of helium atmospheric-pressure plasma jet. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	12
21	Simulation of striation in large-gap coplanar plasma display panels. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	10
22	Prediction of atmospheric pressure glow discharge in dielectric-barrier system. <i>Applied Physics Letters</i> , 2010, 96, 231502.	3.3	9
23	Cytoprotective effects of atmospheric-pressure plasmas against hypoxia-induced neuronal injuries. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 085401.	2.8	9
24	“Breakdown” of stratified electrical explosion products: Plasma development and its mechanical effect. <i>Physics of Fluids</i> , 2021, 33, .	4.0	9
25	Behavior of Atmospheric Pressure Plasma Jet in External Electric Field. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2494-2495.	1.3	8
26	Protective effect of atmospheric pressure plasma on oxidative stress-induced neuronal injuries: an <i>in vitro</i> study. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 095401.	2.8	8
27	Electrical explosion across gas-liquid interface: Aerosol breakdown, shock waves, and cavity dynamics. <i>Physics of Fluids</i> , 2021, 33, 077115.	4.0	8
28	Formation of striations in large-gap coplanar dielectric barrier discharge. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 2057-2061.	2.1	7
29	Discharge characteristics of a needle-to-plate electrode at a micro-scale gap. <i>Plasma Science and Technology</i> , 2018, 20, 054017.	1.5	7
30	Transition of predominant mechanism for the deviation of micro-gap dc gas breakdown character with electrode gap changing. <i>AIP Advances</i> , 2019, 9, .	1.3	7
31	N doped ZnO (N:ZnO) film prepared by reactive HiPIMS deposition technique. <i>AIP Advances</i> , 2020, 10, .	1.3	7
32	Study on the characteristics of helium plasma jet by pulsed micro-hollow cathode discharge. <i>Plasma Sources Science and Technology</i> , 2021, 30, 025001.	3.1	7
33	Effects of electrode gap on radio-frequency discharge characteristics with a hollow electrode. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	7
34	Atmospheric pressure plasma treatments protect neural cells from ischemic stroke-relevant injuries by targeting mitochondria. <i>Plasma Processes and Polymers</i> , 2020, 17, 2000063.	3.0	6
35	Effects of water states on the process of underwater electrical wire explosion under micro-second timescale pulsed discharge. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	6
36	Characteristics of inductively coupled plasma (ICP) and helicon plasma in a single-loop antenna. <i>Plasma Science and Technology</i> , 2020, 22, 085405.	1.5	6

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37	Observation of striations in RF hollow electrode discharge in argon. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	5
38	Cytoprotective effect of atmospheric pressure helium plasma on oxygen and glucose deprivation-induced cell death in H9C2 cardiac myoblasts and primary neonatal rat cardiomyocytes. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 135401.	2.8	5
39	Optical emission and quenching process of a Cu wire explosion: a spectroscopy study. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 225202.	2.8	5
40	Numerical study of the influence of dielectric tube on propagation of atmospheric pressure plasma jet based on coplanar dielectric barrier discharge. <i>Plasma Science and Technology</i> , 2018, 20, 054010.	1.5	4
41	Beam Plasma Characteristics of a Helicon Plasma Source Measured by a Spatially Resolved Optical Emission Spectroscopy. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 2487-2494.	1.3	4
42	Preparation of an Intelligent Oleophobic Hydrogel and Its Application in the Replacement of Locally Damaged Oil Pipelines. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 52018-52027.	8.0	4
43	Striations in helicon-type argon plasma. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	4
44	New Application of an Atmospheric Pressure Plasma Jet as a Neuro-protective Agent Against Glucose Deprivation-induced Injury of SH-SY5Y Cells. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	3
45	Mechanisms of atmospheric pressure plasma protection of neuronal cells under simulated ischemic stroke conditions. <i>AIP Advances</i> , 2022, 12, .	1.3	3
46	Striated Structure of Constricted Discharges in Coplanar Dielectric Barrier Discharge in Neon. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2374-2375.	1.3	2
47	Ion source for IMS based on wire-to-plate corona discharge. <i>European Physical Journal: Special Topics</i> , 2017, 226, 2955-2964.	2.6	2
48	Multimethods and Underlying Mechanism for Realizing Uniform Discharge From Patterned Structures by Varying Controlling Parameters. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 2645-2651.	1.3	2
49	New Design of Ion Blower Based on Needle-Dielectric-Needle Bipolar Corona Discharge. <i>IEEE Access</i> , 2019, 7, 129192-129199.	4.2	2
50	Numerical Simulation on Microwave Transmission Properties of 1-D Periodic Super-Lattice Plasma Photonic Crystals With a Finite-Difference Time-Domain Method. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 3168-3175.	1.3	2
51	Effect of magnetic field on double layer in argon helicon plasma. <i>High Voltage</i> , 2021, 6, 358-365.	4.7	2
52	Dynamics of plasma bullets by nanosecond pulsed micro-hollow cathode discharge within air. <i>Plasma Science and Technology</i> , 2021, 23, 085401.	1.5	1
53	Discharge and post-explosion behaviors of electrical explosion of conductors from a single wire to planar wire array. <i>Plasma Science and Technology</i> , 0, , .	1.5	1
54	Influence of Magnet on Helium Atmospheric Pressure Plasma Jet. , 2020, , .		1

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55	The influence of defects in a plasma photonic crystal on the characteristics of microwave transmittance. Plasma Science and Technology, 2020, 22, 085002.	1.5	0
56	A Micro-plasma Device for Neuroprotection and Its Characteristics. , 2021, , .		0
57	Morphology and Radiation Characteristics of Blue Core in Argon Helicon Plasma Discharge. , 2021, , .		0
58	Comparison of double layer in argon helicon plasma and magnetized DC discharge plasma. Plasma Science and Technology, 2022, 24, 035401.	1.5	0
59	Study on Ionic Wind of Bipolar Corona and Its Sterilization Effect. , 2020, , .		0
60	Study on electrostatic discharge (ESD) characteristics of ultra-thin dielectric film. Plasma Science and Technology, 0, , .	1.5	0
61	Inhalation of Atmospheric-Pressure Gas Plasma Attenuates Brain Infarction in Rats With Experimental Ischemic Stroke. Frontiers in Neuroscience, 2022, 16, 875053.	2.8	0
62	Microwave propagation along nonuniform plasma column as surface plasmon. Physics of Plasmas, 2022, 29, 063505.	1.9	0