

Yangyang Fu

List of Publications by Year in descending order

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86
papers

2,018
citations

236925

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302126

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86
all docs

86
docs citations

86
times ranked

1259
citing authors

#	ARTICLE	IF	CITATIONS
1	Planar gradient metamaterials. <i>Nature Reviews Materials</i> , 2016, 1, .	48.7	153
2	Reversal of transmission and reflection based on acoustic metagratings with integer parity design. <i>Nature Communications</i> , 2019, 10, 2326.	12.8	135
3	Sound vortex diffraction via topological charge in phase gradient metagratings. <i>Science Advances</i> , 2020, 6, .	10.3	73
4	Electrical breakdown from macro to micro/nano scales: a tutorial and a review of the state of the art. <i>Plasma Research Express</i> , 2020, 2, 013001.	0.9	66
5	Zero index metamaterials with PT symmetry in a waveguide system. <i>Optics Express</i> , 2016, 24, 1648.	3.4	61
6	Unidirectional transmission using array of zero-refractive-index metamaterials. <i>Applied Physics Letters</i> , 2014, 104, 193509.	3.3	53
7	Multifunctional reflection in acoustic metagratings with simplified design. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	53
8	Acoustic Imaging with Metamaterial Luneburg Lenses. <i>Scientific Reports</i> , 2018, 8, 16188.	3.3	51
9	Steering light by a sub-wavelength metallic grating from transformation optics. <i>Scientific Reports</i> , 2015, 5, 12219.	3.3	48
10	Transitions between electron emission and gas breakdown mechanisms across length and pressure scales. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	48
11	Controllably asymmetric beam splitting via gap-induced diffraction channel transition in dual-layer binary metagratings. <i>Frontiers of Physics</i> , 2020, 15, 1.	5.0	45
12	Photonic spin Hall effect in PT symmetric metamaterials. <i>Frontiers of Physics</i> , 2019, 14, 1.	5.0	44
13	Compact acoustic retroreflector based on a mirrored Luneburg lens. <i>Physical Review Materials</i> , 2018, 2, .	2.4	41
14	Giant Goos-Hänchen shift induced by bounded states in optical PT-symmetric bilayer structures. <i>Optics Express</i> , 2019, 27, 7857.	3.4	38
15	Paschen's curve in microgaps with an electrode surface protrusion. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	35
16	Mechanism Behind Angularly Asymmetric Diffraction in Phase-Gradient Metasurfaces. <i>Physical Review Applied</i> , 2019, 12, .	3.8	34
17	Asymmetric Generation of Acoustic Vortex Using Dual-Layer Metasurfaces. <i>Physical Review Letters</i> , 2022, 128, 104501.	7.8	33
18	Gas breakdown and its scaling law in microgaps with multiple concentric cathode protrusions. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	31

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19	Similarity of gas discharge in low-pressure argon gaps between two plane-parallel electrodes. High Voltage, 2016, 1, 86-89.	4.7	30
20	High-energy ballistic electrons in low-pressure radio-frequency plasmas. Plasma Sources Science and Technology, 2020, 29, 09LT01.	3.1	30
21	Effect of distribution of electric field on low-pressure gas breakdown. Physics of Plasmas, 2017, 24, .	1.9	29
22	On the Similarities of Low-Temperature Plasma Discharges. IEEE Transactions on Plasma Science, 2019, 47, 1994-2003.	1.3	29
23	Gas breakdown in atmospheric pressure microgaps with a surface protrusion on the cathode. Applied Physics Letters, 2018, 112, .	3.3	27
24	Additional modes in a waveguide system of zero-index-metamaterials with defects. Scientific Reports, 2015, 4, 6428.	3.3	26
25	Intersection of Paschen's curves for argon. Physics of Plasmas, 2016, 23, .	1.9	26
26	Design of zero index metamaterials with PT symmetry using epsilon-near-zero media with defects. Journal of Applied Physics, 2017, 121, 094503.	2.5	26
27	Evaluating microgap breakdown mode transition with electric field non-uniformity. Plasma Sources Science and Technology, 2018, 27, 095014.	3.1	25
28	Geometry symmetry-free and higher-order optical bound states in the continuum. Nature Communications, 2021, 12, 4390.	12.8	25
29	Spatio-temporal dynamics of pulsed gas breakdown in microgaps. Physics of Plasmas, 2019, 26, 014506.	1.9	24
30	Temporal single-surface multipactor dynamics under obliquely incident linearly polarized electric field. Physics of Plasmas, 2019, 26, .	1.9	23
31	Electron dynamics in radio frequency magnetron sputtering argon discharges with a dielectric target. Plasma Sources Science and Technology, 2021, 30, 035019.	3.1	23
32	Enhanced third-harmonic generation induced by nonlinear field resonances in plasmonic-graphene metasurfaces. Optics Express, 2020, 28, 13234.	3.4	23
33	Switchable bifunctional metasurfaces: nearly perfect retroreflection and absorption at the terahertz regime. Optics Letters, 2020, 45, 3989.	3.3	23
34	Designing a nearly perfect infrared absorber in monolayer black phosphorus. Applied Optics, 2019, 58, 3862.	1.8	22
35	Applications of gradient index metamaterials in waveguides. Scientific Reports, 2015, 5, 18223.	3.3	20
36	Transition characteristics of low-pressure discharges in a hollow cathode. Physics of Plasmas, 2017, 24, 083516.	1.9	20

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37	Enhanced and unidirectional photonic spin Hall effect in a plasmonic metasurface with S_{42} symmetry. Optics Letters, 2021, 46, 2537.	3.3	20
38	Research on Similarity Law of Glow Discharge in Argon at Low Pressure by Numerical Simulation. IEEE Transactions on Plasma Science, 2014, 42, 1544-1551.	1.3	19
39	Electromagnetic wave propagations in conjugate metamaterials. Optics Express, 2017, 25, 4952.	3.4	19
40	Effect of surface protrusion on plasma sheath properties in atmospheric microdischarges. Physics of Plasmas, 2018, 25, .	1.9	19
41	Similarity law and frequency scaling in low-pressure capacitive radio frequency plasmas. Applied Physics Letters, 2020, 117, .	3.3	19
42	Influence of metastable atoms in low pressure magnetized radio-frequency argon discharges. Journal Physics D: Applied Physics, 2020, 53, 435201.	2.8	19
43	Total omnidirectional reflection by sub-wavelength gradient metallic gratings. Europhysics Letters, 2016, 114, 34003.	2.0	18
44	Coherent perfect absorber and laser modes in purely imaginary metamaterials. Physical Review A, 2017, 96, .	2.5	18
45	Inhomogeneous field in cavities of zero index metamaterials. Scientific Reports, 2015, 5, 11217.	3.3	16
46	Pressure effect on a tandem hollow cathode discharge in argon. Physics of Plasmas, 2017, 24, .	1.9	16
47	Validity of the similarity law for the glow discharges in non-plane-parallel gaps. Plasma Sources Science and Technology, 2014, 23, 065035.	3.1	15
48	Similarity of capacitive radio-frequency discharges in nonlocal regimes. Physics of Plasmas, 2020, 27, 113501.	1.9	15
49	Observation of electron runaway in a tip-plane air gap under negative nanosecond pulse voltage by PIC/MCC simulation. Plasma Sources Science and Technology, 2022, 31, 045027.	3.1	15
50	Cathode fall thickness of abnormal glow discharges between parallel-plane electrodes in different radii at low pressure. Physics of Plasmas, 2015, 22, .	1.9	14
51	Gas Breakdown in Microgaps With a Surface Protrusion On the Electrode. IEEE Transactions on Plasma Science, 2019, 47, 2011-2019.	1.3	14
52	Investigation on the effect of nonlinear processes on similarity law in high-pressure argon discharges. Physics of Plasmas, 2017, 24, 113518.	1.9	13
53	Enhancing the Faraday rotation in the monolayer phosphorus base of magneto-photonic crystals. Optical Materials, 2020, 102, 109809.	3.6	13
54	Observation of multilayer-structured discharge in plasma ionization breakdown. Applied Physics Letters, 2021, 119, .	3.3	13

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55	Total transmission through a sub-wavelength slit based on Fabry-Pérot resonance and zero-index metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 105602.	2.2	12
56	Characterizing the dominant ions in low-temperature argon plasmas in the range of 1–800 Torr. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	12
57	Asymmetric effects in waveguide systems using PT symmetry and zero index metamaterials. <i>Scientific Reports</i> , 2017, 7, 12476.	3.3	11
58	Determination of the cathode layer thickness in the normal glow discharge. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	11
59	Breakdown, discharge modes, and gaseous recovery of atmospheric air with repetitive 10 ns pulses. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	11
60	Design of a hybrid on-chip waveguide with giant backward stimulated Brillouin scattering. <i>Optics Express</i> , 2019, 27, 24953.	3.4	11
61	Generalizing Similarity Laws for Radio-Frequency Discharge Plasmas across Nonlinear Transition Regimes. <i>Physical Review Applied</i> , 2021, 16, .	3.8	11
62	Perfect retroreflection assisted by evanescent guided modes in acoustic metagratings. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	11
63	Coherent perfect absorption and laser modes in a cylindrical structure of conjugate metamaterials. <i>New Journal of Physics</i> , 2018, 20, 013015.	2.9	10
64	Transition characteristics and electron kinetics in microhollow cathode discharges. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	10
65	Comparison of 1D and 2D particle-in-cell simulations for DC magnetron sputtering discharges. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	10
66	Scattering of Light with Orbital Angular Momentum from a Metallic Meta-Cylinder with Engineered Topological Charge. <i>ACS Photonics</i> , 2021, 8, 2027-2032.	6.6	10
67	Critical Coupling and Perfect Absorption Using MoO_3 Multilayers in the Mid-Infrared. <i>Annalen Der Physik</i> , 2021, 533, 2000512.	2.4	10
68	Phase-Gradient Metasurfaces Based on Local Fabry-Pérot Resonances. <i>Chinese Physics Letters</i> , 2020, 37, 097801.	3.3	10
69	Enhancing the Faraday rotation of monolayer black phosphorus by the optical Tamm state at the photonic crystal interface. <i>Applied Optics</i> , 2020, 59, 9607.	1.8	10
70	Polarization beam splitter based on extremely anisotropic black phosphorus ribbons. <i>Optics Express</i> , 2020, 28, 8371.	3.4	10
71	Direct current microplasma formation around microstructure arrays. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	9
72	Transition of low-temperature plasma similarity laws from low to high ionization degree regimes. <i>Plasma Sources Science and Technology</i> , 2019, 28, 095012.	3.1	8

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73	Similarity properties in capacitive radio frequency plasmas with nonlinear collision processes. Plasma Sources Science and Technology, 2021, 30, 115009.	3.1	8
74	Investigation on the similarity law of low-pressure glow discharges based on the light intensity distributions in geometrically similar gaps. Physics of Plasmas, 2017, 24, .	1.9	7
75	Online Measurement of Pulsed Electric Field of Insulator Surface in Vacuum Based on Kerr Effect. IEEE Transactions on Plasma Science, 2014, 42, 2986-2990.	1.3	5
76	Benchmark of the KGMf with a coupled Boltzmann equation solver. Computer Physics Communications, 2021, 260, 107748.	7.5	5
77	Asymmetric nonlinear-mode-conversion in an optical waveguide with PT symmetry. Frontiers of Physics, 2022, 17, .	5.0	5
78	Tunable THz reflection-type polarizer based on monolayer phosphorene. Applied Optics, 2019, 58, 9643.	1.8	4
79	Extraordinary wave modes in purely imaginary metamaterials beyond the critical angle. Optics Express, 2021, 29, 2874.	3.4	3
80	Broadband unidirectional near-zero reflection induced by logical combination of parity-time symmetric photonic crystal. Optics Communications, 2020, 474, 126123.	2.1	2
81	3D broadband waveguide cloak and light squeezing in terahertz regime. Optics Letters, 2020, 45, 652.	3.3	2
82	Perfect waveguide mode conversion via zero index metamaterials. Journal of Optics (United Kingdom), 2017, 19, 015102.	2.2	1
83	New mechanism for optical super-resolution via anisotropic near-zero index metamaterials. Journal of Optics (United Kingdom), 2021, 23, 055101.	2.2	1
84	Distortion of the Electric Field Near Insulator Surface Observed With Electro-Optical Technique Measuring Kerr Effect. IEEE Transactions on Plasma Science, 2014, 42, 2574-2575.	1.3	0
85	Investigation of the Similarity Law in Discharges at High Pressure Using A Kinetic Global Model. , 2017, , .		0
86	Reconfigurable chiral exceptional point and tunable non-reciprocity in a non-Hermitian system with phase-change material. Optics Express, 2022, 30, 27812.	3.4	0