Yuancheng Fan

List of Publications by Year
in descending order

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81	3,477	147801 31	138484 58
papers	citations	h-index	g-index

82	82	82	3047
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Broadband polarization transformation via enhanced asymmetric transmission through arrays of twisted complementary split-ring resonators. Applied Physics Letters, 2011, 99, .	3.3	235
2	Tunable Terahertz Meta-Surface with Graphene Cut-Wires. ACS Photonics, 2015, 2, 151-156.	6.6	208
3	Facile synthesis of hierarchical chrysanthemum-like copper cobaltate-copper oxide composites for enhanced microwave absorption performance. Journal of Colloid and Interface Science, 2019, 533, 481-491.	9.4	194
4	Low-loss and high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi></mml:math>planar metamaterial with toroidal moment. Physical Review B, 2013, 87, .	3.2	153
5	Electrically Tunable Goosâ€“HÃnchen Effect with Graphene in the Terahertz Regime. Advanced Optical Materials, 2016, 4, 1824-1828.	7.3	144
6	Graphene Plasmonics: A Platform for 2D Optics. Advanced Optical Materials, 2019, 7, 1800537.	7.3	139
7	Enhanced low-frequency microwave absorbing property of SCFs@TiO2 composite. Powder Technology, 2018, 333, 153-159.	4.2	138
8	Photoexcited Graphene Metasurfaces: Significantly Enhanced and Tunable Magnetic Resonances. ACS Photonics, 2018, 5, 1612-1618.	6.6	123
9	Highâ€Qualityâ€Factor Midâ€Infrared Toroidal Excitation in Folded 3D Metamaterials. Advanced Materials, 2017, 29, 1606298.	21.0	117
10	Tunable terahertz coherent perfect absorption in a monolayer graphene. Optics Letters, 2014, 39, 6269.	3.3	116
11	Tunable mid-infrared coherent perfect absorption in a graphene meta-surface. Scientific Reports, 2015, 5, 13956.	3.3	115
12	An electromagnetic modulator based on electrically controllable metamaterial analogue to electromagnetically induced transparency. Scientific Reports, 2017, 7, 40441.	3.3	104
13	Mechanically stretchable and tunable metamaterial absorber. Applied Physics Letters, 2015, 106, .	3.3	101
14	A Review of Tunable Acoustic Metamaterials. Applied Sciences (Switzerland), 2018, 8, 1480.	2.5	94
15	An ultrathin twist-structure polarization transformer based on fish-scale metallic wires. Applied Physics Letters, 2011, 98, .	3.3	88
16	Photonic band gap of a graphene-embedded quarter-wave stack. Physical Review B, 2013, 88, .	3.2	72
17	Controlling optical polarization conversion with Ge₂Sb₂Te₅-based phase-change dielectric metamaterials. Nanoscale, 2018, 10, 12054-12061.	5.6	70
18	Achieving a high- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Q</mml:mi></mml:math> response in metamaterials by manipulating the toroidal excitations. Physical Review A, 2018, 97, .	2.5	67

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19	Plasmonic TiN boosting nitrogen-doped TiO2 for ultrahigh efficient photoelectrochemical oxygen evolution. Applied Catalysis B: Environmental, 2019, 246, 21-29.	20.2	61
20	Generating an orbital-angular-momentum beam with a metasurface of gradient reflective phase. Optical Materials Express, 2016, 6, 3940.	3.0	59
21	Realization of a near-infrared active Fano-resonant asymmetric metasurface by precisely controlling the phase transition of Ge₂Sb₂Te₅. Nanoscale, 2020, 12, 8758-8767.	5.6	57
22	Enhancing infrared extinction and absorption in a monolayer graphene sheet by harvesting the electric dipolar mode of split ring resonators. Optics Letters, 2013, 38, 5410.	3.3	55
23	Siliconâ€Based Terahertz Metaâ€Devices for Electrical Modulation of Fano Resonance and Transmission Amplitude. Advanced Optical Materials, 2020, 8, 2000449.	7.3	52
24	Subwavelength electromagnetic diode: One-way response of cascading nonlinear meta-atoms. Applied Physics Letters, 2011, 98, .	3.3	50
25	Synthesis, characterization and microwave transparent properties of Mn3O4 microspheres. Journal of Materials Science: Materials in Electronics, 2019, 30, 8771-8776.	2.2	48
26	Realization of switchable EIT metamaterial by exploiting fluidity of liquid metal. Optics Express, 2019, 27, 2837.	3.4	41
27	Broadband plasmonic metamaterial absorber with fish-scale structure at visible frequencies. Optical Materials Express, 2016, 6, 2448.	3.0	38
28	Phaseâ€Modulated Scattering Manipulation for Exterior Cloaking in Metalâ€“Dielectric Hybrid Metamaterials. Advanced Materials, 2019, 31, e1903206.	21.0	38
29	Broadband Terahertz Absorption in Graphene-Embedded Photonic Crystals. Plasmonics, 2018, 13, 1153-1158.	3.4	36
30	Weak coupling between bright and dark resonators with electrical tunability and analysis based on temporal coupled-mode theory. Applied Physics Letters, 2017, 110, .	3.3	34
31	Broadband negative refraction in stacked fishnet metamaterial. Applied Physics Letters, 2010, 97, .	3.3	33
32	Broadband and wide angle microwave absorption with optically transparent metamaterial. Optical Materials, 2021, 113, 110852.	3.6	29
33	Active control of EIT-like response in a symmetry-broken metasurface with orthogonal electric dipolar resonators. Photonics Research, 2019, 7, 955.	7.0	29
34	Subwavelength optical localization with toroidal excitations in plasmonic and <scp>Mie</scp> metamaterials. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 577-597.	17.3	27
35	Polarizationâ€Multiplexed Silicon Metasurfaces for Multiâ€Channel Visible Light Modulation. Advanced Functional Materials, 2022, 32, .	14.9	26
36	Broadband transparency achieved with the stacked metallic multi-layers perforated with coaxial annular apertures. Optics Express, 2011, 19, 21425.	3.4	25

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37	Engineering Coilingâ€Up Space Metasurfaces for Broadband Lowâ€Frequency Acoustic Absorption. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900426.	2.4	25
38	Titanium dioxide metasurface manipulating high-efficiency and broadband photonic spin Hall effect in visible regime. Nanophotonics, 2020, 9, 4327-4335.	6.0	24
39	Extend the omnidirectional electronic gap of Thue-Morse aperiodic gapped graphene superlattices. Applied Physics Letters, 2012, 101, .	3.3	23
40	Electromagnetically induced transparency in all-dielectric metamaterials: Coupling between magnetic Mie resonance and substrate resonance. Physical Review A, 2019, 100, .	2.5	22
41	Realizing Broadband Transparency via Manipulating the Hybrid Coupling Modes in Metasurfaces for Highâ€Efficiency Metalens. Advanced Optical Materials, 2019, 7, 1900016.	7.3	22
42	Temperature-Controlled Chameleonlike Cloak. Physical Review X, 2017, 7, .	8.9	21
43	Electrically tunable Fano-type resonance of an asymmetric metal wire pair. Optics Express, 2016, 24, 11708.	3.4	19
44	Active Control of Terahertz Toroidal Excitations in a Hybrid Metasurface with an Electrically Biased Silicon Layer. Advanced Photonics Research, 2021, 2, 2100103.	3.6	19
45	Nonlinear properties of meta-dimer comprised of coupled ring resonators. Journal Physics D: Applied Physics, 2011, 44, 425303.	2.8	18
46	Controllable coherent perfect absorber made of liquid metal-based metasurface. Optics Express, 2019, 27, 25974.	3.4	17
47	Near-diffraction-limited focusing with gradient high-impedance metasurface. Optical Materials Express, 2017, 7, 1141.	3.0	16
48	A Review of Tunable Electromagnetic Metamaterials With Anisotropic Liquid Crystals. Frontiers in Physics, 2021, 9, .	2.1	16
49	Fano-Resonant Hybrid Metamaterial for Enhanced Nonlinear Tunability and Hysteresis Behavior. Research, 2021, 2021, 9754083.	5.7	16
50	Optical Realization of Wave-Based Analog Computing with Metamaterials. Applied Sciences (Switzerland), 2021, 11, 141.	2.5	15
51	Subwavelength imaging with a fishnet flat lens. Physical Review B, 2013, 88, .	3.2	14
52	Dynamically tunable Fano resonance in planar structures based on periodically asymmetric graphene nanodisk pair. Physica B: Condensed Matter, 2015, 473, 7-10.	2.7	14
53	Structurally tunable reflective metamaterial polarization transformer based on closed fish-scale structure. Current Applied Physics, 2017, 17, 829-834.	2.4	14
54	Thermally controllable Mie resonances in a water-based metamaterial. Scientific Reports, 2019, 9, 5417.	3.3	13

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55	Multifieldâ€Inspired Tunable Carrier Effects Based on Ferroelectricâ€Silicon PN Heterojunction. Advanced Electronic Materials, 2020, 6, 1900795.	5.1	12
56	Simulate Deutsch-Jozsa algorithm with metamaterials. Optics Express, 2020, 28, 16230.	3.4	12
57	Coiling-Up Space Metasurface for High-Efficient and Wide-angle Acoustic Wavefront Steering. Frontiers in Materials, 2021, 8, .	2.4	12
58	Dualâ€Sensitivity Terahertz Metasensor Based on Latticeâ€“Toroidalâ€Coupled Resonance. Advanced Photonics Research, 2021, 2, 2000175.	3.6	11
59	Dielectric Properties of <scp><scp>Ba</scp></scp>_{0.7}<scp><scp>Sr</scp></scp>_{0.3}<scp><scp>TiO</scp></scp>₃ Film at Terahertz Measured by Metamaterials. Journal of the American Ceramic Society, 2012, 95, 1167-1169.	3.8	10
60	EIA metamaterials based on hybrid metal/dielectric structures with dark-mode-enhanced absorption. Optics Express, 2020, 28, 17481.	3.4	10
61	Electrically reconfigurable split ring resonator covered by nematic liquid crystal droplet. Optics Express, 2016, 24, 27096.	3.4	7
62	Theoretical realization of dynamically tunable double plasmonically induced transparency in a graphene-based waveguide structure. Optical Materials, 2017, 72, 632-636.	3.6	7
63	Highly degenerate photonic flat bands arising from complete graph configurations. Physical Review A, 2019, 100, .	2.5	7
64	Thermally reconfigurable Fano resonance in water brick pair metamaterial. Results in Physics, 2021, 28, 104650.	4.1	7
65	Propagation properties of a wave in a disordered multilayered system containing hyperbolic metamaterials. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2995.	2.1	6
66	Ultrathin dual-functional metasurface with transmission and absorption characteristics. Optical Materials Express, 2018, 8, 875.	3.0	6
67	Magnetically coupled Fano resonance of dielectric pentamer oligomer. Journal Physics D: Applied Physics, 2017, 50, 275002.	2.8	5
68	Reconfigurable-focus flat lens based on gradient index metamaterials. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	2.2	4
69	Mode propagation in a PT-symmetric gainâ€“metalâ€“loss plasmonic system. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /O	2.2	3
70	Actively modulated propagation of electromagnetic wave in hybrid metasurfaces containing graphene. EPJ Applied Metamaterials, 2020, 7, 9.	1.5	3
71	Analysis of terahertz wave nonlinear reflection by an array of double silicon elements placed on a metal substrate. Journal Physics D: Applied Physics, 2019, 52, 355303.	2.8	2
72	Actively Controlled Frequency-Agile Fano-Resonant Metasurface for Broadband and Unity Modulation. Frontiers in Physics, 2021, 9, .	2.1	2

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73	Nonlinearly tunable extraordinary optical transmission in a hybird metamaterial. Journal Physics D: Applied Physics, 0, , .	2.8	2
74	Editorial: Tunable and Reconfigurable Optical Metamaterials. Frontiers in Physics, 2021, 9, .	2.1	1
75	Simulation of electromagnetically induced transparency like acoustic transmission assisted by PT-symmetry. EPJ Applied Physics, 2013, 62, 11301.	0.7	0
76	Electrically controlled switch based on Fano resonance micro-structure. , 2016, , .		0
77	Metamaterials: Highâ€Qualityâ€Factor Midâ€Infrared Toroidal Excitation in Folded 3D Metamaterials (Adv.) Tj ETQq1 1 0.784314 rgB	21.0	0
78	Back Cover Image. InformaÄnÃ-MateriÃ¡ly, 2021, 3, .	17.3	0
79	Propagation of Surface Plasmon Polaritons in A Ring Resonator with PT-symmetry. Chinese Journal of Luminescence, 2012, 33, 901-904.	0.5	0
80	One-way Action of Terahertz Surface Plasmons in A Three Layers Axially Uniform Waveguide System. Chinese Journal of Luminescence, 2013, 34, 803-806.	0.5	0
81	Harvesting Plasmonic Excitations in Graphene for Tunable Terahertz/Infrared Metamaterials. , 0, , .		0