Yuancheng Fan

List of Publications by Citations

71 papers	2,578 citations	27 h-index	49 g-index
82 ext. papers	3,071 ext. citations	5.4 avg, IF	5.33 L-index

#	Paper	IF	Citations
71	Broadband polarization transformation via enhanced asymmetric transmission through arrays of twisted complementary split-ring resonators. *Applied Physics Letters*, **2011**, 99, 221907	3.4	185
70	Tunable Terahertz Meta-Surface with Graphene Cut-Wires. *ACS Photonics*, **2015**, 2, 151-156	6.3	184
69	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	8.3	155
68	Low-loss and high-Q planar metamaterial with toroidal moment. *Physical Review B*, **2013**, 87,	3.3	130
67	Electrically Tunable Goos□□chen Effect with Graphene in the Terahertz Regime. *Advanced Optical Materials*, **2016**, 4, 1824-1828	8.1	126
66	Enhanced low-frequency microwave absorbing property of SCFs@TiO2 composite. *Powder Technology*, **2018**, 333, 153-159	5.2	119
65	Tunable mid-infrared coherent perfect absorption in a graphene meta-surface. *Scientific Reports*, **2015**, 5, 13956	4.9	104
64	Photoexcited Graphene Metasurfaces: Significantly Enhanced and Tunable Magnetic Resonances. *ACS Photonics*, **2018**, 5, 1612-1618	6.3	96
63	Tunable terahertz coherent perfect absorption in a monolayer graphene. *Optics Letters*, **2014**, 39, 6269-72	3	93
62	Graphene Plasmonics: A Platform for 2D Optics. *Advanced Optical Materials*, **2019**, 7, 1800537	8.1	93
61	High-Quality-Factor Mid-Infrared Toroidal Excitation in Folded 3D Metamaterials. *Advanced Materials*, **2017**, 29, 1606298	24	89
60	Mechanically stretchable and tunable metamaterial absorber. *Applied Physics Letters*, **2015**, 106, 091907	3.4	85
59	An electromagnetic modulator based on electrically controllable metamaterial analogue to electromagnetically induced transparency. *Scientific Reports*, **2017**, 7, 40441	4.9	84
58	An ultrathin twist-structure polarization transformer based on fish-scale metallic wires. *Applied Physics Letters*, **2011**, 98, 151908	3.4	77
57	Photonic band gap of a graphene-embedded quarter-wave stack. *Physical Review B*, **2013**, 88,	3.3	60
56	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	51
55	Achieving a high-Q response in metamaterials by manipulating the toroidal excitations. *Physical Review A*, **2018**, 97,	2.6	50

54	Controlling optical polarization conversion with GeSbTe-based phase-change dielectric metamaterials. *Nanoscale*, **2018**, 10, 12054-12061	7.7	50
53	A Review of Tunable Acoustic Metamaterials. *Applied Sciences (Switzerland)*, **2018**, 8, 1480	2.6	48
52	Subwavelength electromagnetic diode: One-way response of cascading nonlinear meta-atoms. *Applied Physics Letters*, **2011**, 98, 151903	3.4	43
51	Generating an orbital-angular-momentum beam with a metasurface of gradient reflective phase. *Optical Materials Express*, **2016**, 6, 3940	2.6	42
50	Synthesis, characterization and microwave transparent properties of Mn3O4 microspheres. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 8771-8776	2.1	37
49	Plasmonic TiN boosting nitrogen-doped TiO2 for ultrahigh efficient photoelectrochemical oxygen evolution. *Applied Catalysis B: Environmental*, **2019**, 246, 21-29	21.8	36
48	Realization of a near-infrared active Fano-resonant asymmetric metasurface by precisely controlling the phase transition of GeSbTe. *Nanoscale*, **2020**, 12, 8758-8767	7.7	33
47	Broadband negative refraction in stacked fishnet metamaterial. *Applied Physics Letters*, **2010**, 97, 141901	3.4	29
46	Broadband Terahertz Absorption in Graphene-Embedded Photonic Crystals. *Plasmonics*, **2018**, 13, 1153-1158	2.4	27
45	Broadband plasmonic metamaterial absorber with fish-scale structure at visible frequencies. *Optical Materials Express*, **2016**, 6, 2448	2.6	27
44	Realization of switchable EIT metamaterial by exploiting fluidity of liquid metal. *Optics Express*, **2019**, 27, 2837-2843	3.3	27
43	Silicon-Based Terahertz Meta-Devices for Electrical Modulation of Fano Resonance and Transmission Amplitude. *Advanced Optical Materials*, **2020**, 8, 2000449	8.1	25
42	Weak coupling between bright and dark resonators with electrical tunability and analysis based on temporal coupled-mode theory. *Applied Physics Letters*, **2017**, 110, 221905	3.4	23
41	Phase-Modulated Scattering Manipulation for Exterior Cloaking in Metal-Dielectric Hybrid Metamaterials. *Advanced Materials*, **2019**, 31, e1903206	24	19
40	Broadband transparency achieved with the stacked metallic multi-layers perforated with coaxial annular apertures. *Optics Express*, **2011**, 19, 21425-31	3.3	19
39	Extend the omnidirectional electronic gap of Thue-Morse aperiodic gapped graphene superlattices. *Applied Physics Letters*, **2012**, 101, 252104	3.4	18
38	Electrically tunable Fano-type resonance of an asymmetric metal wire pair. *Optics Express*, **2016**, 24, 11708-15	3.3	18
37	Nonlinear properties of meta-dimer comprised of coupled ring resonators. *Journal Physics D: Applied Physics*, **2011**, 44, 425303	3	16

36	Active control of EIT-like response in a symmetry-broken metasurface with orthogonal electric dipolar resonators. *Photonics Research*, **2019**, 7, 955	6	16
35	Temperature-Controlled Chameleonlike Cloak. *Physical Review X*, **2017**, 7,	9.1	15
34	Electromagnetically induced transparency in all-dielectric metamaterials: Coupling between magnetic Mie resonance and substrate resonance. *Physical Review A*, **2019**, 100,	2.6	14
33	Realizing Broadband Transparency via Manipulating the Hybrid Coupling Modes in Metasurfaces for High-Efficiency Metalens. *Advanced Optical Materials*, **2019**, 7, 1900016	8.1	13
32	Dynamically tunable Fano resonance in planar structures based on periodically asymmetric graphene nanodisk pair. *Physica B: Condensed Matter*, **2015**, 473, 7-10	2.8	13
31	Near-diffraction-limited focusing with gradient high-impedance metasurface. *Optical Materials Express*, **2017**, 7, 1141	2.6	13
30	Subwavelength imaging with a fishnet flat lens. *Physical Review B*, **2013**, 88,	3.3	11
29	Controllable coherent perfect absorber made of liquid metal-based metasurface. *Optics Express*, **2019**, 27, 25974-25982	3.3	11
28	Titanium dioxide metasurface manipulating high-efficiency and broadband photonic spin Hall effect in visible regime. *Nanophotonics*, **2020**, 9, 4327-4335	6.3	10
27	Subwavelength optical localization with toroidal excitations in plasmonic and Mie metamaterials. *Informa□□Materi□y*, **2021**, 3, 577-597	23.1	10
26	Broadband and wide angle microwave absorption with optically transparent metamaterial. *Optical Materials*, **2021**, 113, 110852	3.3	10
25	A Review of Tunable Electromagnetic Metamaterials With Anisotropic Liquid Crystals. *Frontiers in Physics*, **2021**, 9,	3.9	10
24	Structurally tunable reflective metamaterial polarization transformer based on closed fish-scale structure. *Current Applied Physics*, **2017**, 17, 829-834	2.6	9
23	Thermally controllable Mie resonances in a water-based metamaterial. *Scientific Reports*, **2019**, 9, 5417	4.9	9
22	Multifield-Inspired Tunable Carrier Effects Based on Ferroelectric-Silicon PN Heterojunction. *Advanced Electronic Materials*, **2020**, 6, 1900795	6.4	9
21	Engineering Coiling-Up Space Metasurfaces for Broadband Low-Frequency Acoustic Absorption. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1900426	2.5	8
20	Theoretical realization of dynamically tunable double plasmonically induced transparency in a graphene-based waveguide structure. *Optical Materials*, **2017**, 72, 632-636	3.3	7
19	Dielectric Properties of Ba0.7Sr0.3TiO3 Film at Terahertz Measured by Metamaterials. *Journal of the American Ceramic Society*, **2012**, 95, 1167-1169	3.8	7

18	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	1.7	6
17	Active Control of Terahertz Toroidal Excitations in a Hybrid Metasurface with an Electrically Biased Silicon Layer. *Advanced Photonics Research*, **2021**, 2, 2100103	1.9	6
16	Dual-Sensitivity Terahertz Metasensor Based on Lattice‐Toroidal-Coupled Resonance. *Advanced Photonics Research*, **2021**, 2, 2000175	1.9	6
15	Magnetically coupled Fano resonance of dielectric pentamer oligomer. *Journal Physics D: Applied Physics*, **2017**, 50, 275002	3	5
14	Optical Realization of Wave-Based Analog Computing with Metamaterials. *Applied Sciences (Switzerland)*, **2021**, 11, 141	2.6	5
13	Highly degenerate photonic flat bands arising from complete graph configurations. *Physical Review A*, **2019**, 100,	2.6	4
12	Simulate Deutsch-Jozsa algorithm with metamaterials. *Optics Express*, **2020**, 28, 16230-16243	3.3	4
11	Electrically reconfigurable split ring resonator covered by nematic liquid crystal droplet. *Optics Express*, **2016**, 24, 27096-27103	3.3	4
10	Fano-Resonant Hybrid Metamaterial for Enhanced Nonlinear Tunability and Hysteresis Behavior. *Research*, **2021**, 2021, 9754083	7.8	4
9	Thermally reconfigurable Fano resonance in water brick pair metamaterial. *Results in Physics*, **2021**, 28, 104650	3.7	4
8	Reconfigurable-focus flat lens based on gradient index metamaterials. *Journal of Optics (United Kingdom)*, **2015**, 17, 085103	1.7	3
7	Mode propagation in a PT-symmetric gain‐metal‐loss plasmonic system. *Journal of Optics (United Kingdom)*, **2014**, 16, 045002	1.7	3
6	EIA metamaterials based on hybrid metal/dielectric structures with dark-mode-enhanced absorption. *Optics Express*, **2020**, 28, 17481-17489	3.3	3
5	Polarization-Multiplexed Silicon Metasurfaces for Multi-Channel Visible Light Modulation. *Advanced Functional Materials*,2200013	15.6	3
4	Actively modulated propagation of electromagnetic wave in hybrid metasurfaces containing graphene. *EPJ Applied Metamaterials*, **2020**, 7, 9	0.8	2
3	Ultrathin dual-functional metasurface with transmission and absorption characteristics. *Optical Materials Express*, **2018**, 8, 875	2.6	1
2	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	3	0
1	Simulation of electromagnetically induced transparency like acoustic transmission assisted by PT-symmetry. *EPJ Applied Physics*, **2013**, 62, 11301	1.1	