

# Yuancheng Fan

## List of Publications by Year in Descending Order

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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.

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	Optical Realization of Wave-Based Analog Computing with Metamaterials. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 141	2.6	5
70	Active Control of Terahertz Toroidal Excitations in a Hybrid Metasurface with an Electrically Biased Silicon Layer. <i>Advanced Photonics Research</i> , <b>2021</b> , 2, 2100103	1.9	6
69	Subwavelength optical localization with toroidal excitations in plasmonic and Mie metamaterials. <i>Information Materials</i> , <b>2021</b> , 3, 577-597	23.1	10
68	Broadband and wide angle microwave absorption with optically transparent metamaterial. <i>Optical Materials</i> , <b>2021</b> , 113, 110852	3.3	10
67	A Review of Tunable Electromagnetic Metamaterials With Anisotropic Liquid Crystals. <i>Frontiers in Physics</i> , <b>2021</b> , 9,	3.9	10
66	Dual-Sensitivity Terahertz Metasensor Based on Lattice-Toroidal-Coupled Resonance. <i>Advanced Photonics Research</i> , <b>2021</b> , 2, 2000175	1.9	6
65	Fano-Resonant Hybrid Metamaterial for Enhanced Nonlinear Tunability and Hysteresis Behavior. <i>Research</i> , <b>2021</b> , 2021, 9754083	7.8	4
64	Thermally reconfigurable Fano resonance in water brick pair metamaterial. <i>Results in Physics</i> , <b>2021</b> , 28, 104650	3.7	4
63	Silicon-Based Terahertz Meta-Devices for Electrical Modulation of Fano Resonance and Transmission Amplitude. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000449	8.1	25
62	Realization of a near-infrared active Fano-resonant asymmetric metasurface by precisely controlling the phase transition of GeSbTe. <i>Nanoscale</i> , <b>2020</b> , 12, 8758-8767	7.7	33
61	Simulate Deutsch-Jozsa algorithm with metamaterials. <i>Optics Express</i> , <b>2020</b> , 28, 16230-16243	3.3	4
60	Titanium dioxide metasurface manipulating high-efficiency and broadband photonic spin Hall effect in visible regime. <i>Nanophotonics</i> , <b>2020</b> , 9, 4327-4335	6.3	10
59	EIA metamaterials based on hybrid metal/dielectric structures with dark-mode-enhanced absorption. <i>Optics Express</i> , <b>2020</b> , 28, 17481-17489	3.3	3
58	Actively modulated propagation of electromagnetic wave in hybrid metasurfaces containing graphene. <i>EPJ Applied Metamaterials</i> , <b>2020</b> , 7, 9	0.8	2
57	Multifield-Inspired Tunable Carrier Effects Based on Ferroelectric-Silicon PN Heterojunction. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1900795	6.4	9
56	Engineering Coiling-Up Space Metasurfaces for Broadband Low-Frequency Acoustic Absorption. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2019</b> , 13, 1900426	2.5	8
55	Plasmonic TiN boosting nitrogen-doped TiO <sub>2</sub> for ultrahigh efficient photoelectrochemical oxygen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 246, 21-29	21.8	36

54	Analysis of terahertz wave nonlinear reflection by an array of double silicon elements placed on a metal substrate. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 355303	3	0
53	Realizing Broadband Transparency via Manipulating the Hybrid Coupling Modes in Metasurfaces for High-Efficiency Metalens. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900016	8.1	13
52	Synthesis, characterization and microwave transparent properties of Mn <sub>3</sub> O <sub>4</sub> microspheres. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 8771-8776	2.1	37
51	Thermally controllable Mie resonances in a water-based metamaterial. <i>Scientific Reports</i> , <b>2019</b> , 9, 5417	4.9	9
50	Phase-Modulated Scattering Manipulation for Exterior Cloaking in Metal-Dielectric Hybrid Metamaterials. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903206	24	19
49	Highly degenerate photonic flat bands arising from complete graph configurations. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	4
48	Electromagnetically induced transparency in all-dielectric metamaterials: Coupling between magnetic Mie resonance and substrate resonance. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	14
47	Controllable coherent perfect absorber made of liquid metal-based metasurface. <i>Optics Express</i> , <b>2019</b> , 27, 25974-25982	3.3	11
46	Active control of EIT-like response in a symmetry-broken metasurface with orthogonal electric dipolar resonators. <i>Photonics Research</i> , <b>2019</b> , 7, 955	6	16
45	Realization of switchable EIT metamaterial by exploiting fluidity of liquid metal. <i>Optics Express</i> , <b>2019</b> , 27, 2837-2843	3.3	27
44	Facile synthesis of hierarchical chrysanthemum-like copper cobaltate-copper oxide composites for enhanced microwave absorption performance. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 533, 481-491	9.3	155
43	Graphene Plasmonics: A Platform for 2D Optics. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1800537	8.1	93
42	Photoexcited Graphene Metasurfaces: Significantly Enhanced and Tunable Magnetic Resonances. <i>ACS Photonics</i> , <b>2018</b> , 5, 1612-1618	6.3	96
41	Enhanced low-frequency microwave absorbing property of SCFs@TiO <sub>2</sub> composite. <i>Powder Technology</i> , <b>2018</b> , 333, 153-159	5.2	119
40	Achieving a high-Q response in metamaterials by manipulating the toroidal excitations. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	50
39	Broadband Terahertz Absorption in Graphene-Embedded Photonic Crystals. <i>Plasmonics</i> , <b>2018</b> , 13, 1153-1158	11.8	27
38	Ultrathin dual-functional metasurface with transmission and absorption characteristics. <i>Optical Materials Express</i> , <b>2018</b> , 8, 875	2.6	1
37	A Review of Tunable Acoustic Metamaterials. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 1480	2.6	48

36	Controlling optical polarization conversion with GeSbTe-based phase-change dielectric metamaterials. <i>Nanoscale</i> , <b>2018</b> , 10, 12054-12061	7.7	50
35	High-Quality-Factor Mid-Infrared Toroidal Excitation in Folded 3D Metamaterials. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606298	24	89
34	An electromagnetic modulator based on electrically controllable metamaterial analogue to electromagnetically induced transparency. <i>Scientific Reports</i> , <b>2017</b> , 7, 40441	4.9	84
33	Magnetically coupled Fano resonance of dielectric pentamer oligomer. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 275002	3	5
32	Weak coupling between bright and dark resonators with electrical tunability and analysis based on temporal coupled-mode theory. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 221905	3.4	23
31	Temperature-Controlled Chameleonlike Cloak. <i>Physical Review X</i> , <b>2017</b> , 7,	9.1	15
30	Structurally tunable reflective metamaterial polarization transformer based on closed fish-scale structure. <i>Current Applied Physics</i> , <b>2017</b> , 17, 829-834	2.6	9
29	Theoretical realization of dynamically tunable double plasmonically induced transparency in a graphene-based waveguide structure. <i>Optical Materials</i> , <b>2017</b> , 72, 632-636	3.3	7
28	Near-diffraction-limited focusing with gradient high-impedance metasurface. <i>Optical Materials Express</i> , <b>2017</b> , 7, 1141	2.6	13
27	Electrically Tunable Goos-Hänchen Effect with Graphene in the Terahertz Regime. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 1824-1828	8.1	126
26	Electrically reconfigurable split ring resonator covered by nematic liquid crystal droplet. <i>Optics Express</i> , <b>2016</b> , 24, 27096-27103	3.3	4
25	Generating an orbital-angular-momentum beam with a metasurface of gradient reflective phase. <i>Optical Materials Express</i> , <b>2016</b> , 6, 3940	2.6	42
24	Broadband plasmonic metamaterial absorber with fish-scale structure at visible frequencies. <i>Optical Materials Express</i> , <b>2016</b> , 6, 2448	2.6	27
23	Electrically tunable Fano-type resonance of an asymmetric metal wire pair. <i>Optics Express</i> , <b>2016</b> , 24, 11708-11715	3.5	18
22	Dynamically tunable Fano resonance in planar structures based on periodically asymmetric graphene nanodisk pair. <i>Physica B: Condensed Matter</i> , <b>2015</b> , 473, 7-10	2.8	13
21	Reconfigurable-focus flat lens based on gradient index metamaterials. <i>Journal of Optics (United Kingdom)</i> , <b>2015</b> , 17, 085103	1.7	3
20	Mechanically stretchable and tunable metamaterial absorber. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 091907	3.4	85
19	Tunable Terahertz Meta-Surface with Graphene Cut-Wires. <i>ACS Photonics</i> , <b>2015</b> , 2, 151-156	6.3	184

18	Tunable mid-infrared coherent perfect absorption in a graphene meta-surface. <i>Scientific Reports</i> , <b>2015</b> , 5, 13956	4.9	104
17	Mode propagation in a PT-symmetric gain-metal loss plasmonic system. <i>Journal of Optics (United Kingdom)</i> , <b>2014</b> , 16, 045002	1.7	3
16	Tunable terahertz coherent perfect absorption in a monolayer graphene. <i>Optics Letters</i> , <b>2014</b> , 39, 6269-72	3.2	93
15	Simulation of electromagnetically induced transparency like acoustic transmission assisted by PT-symmetry. <i>EPJ Applied Physics</i> , <b>2013</b> , 62, 11301	1.1	1
14	Low-loss and high-Q planar metamaterial with toroidal moment. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	130
13	Enhancing infrared extinction and absorption in a monolayer graphene sheet by harvesting the electric dipolar mode of split ring resonators. <i>Optics Letters</i> , <b>2013</b> , 38, 5410-3	3	51
12	Photonic band gap of a graphene-embedded quarter-wave stack. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	60
11	Subwavelength imaging with a fishnet flat lens. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	11
10	Extend the omnidirectional electronic gap of Thue-Morse aperiodic gapped graphene superlattices. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 252104	3.4	18
9	Dielectric Properties of Ba <sub>0.7</sub> Sr <sub>0.3</sub> TiO <sub>3</sub> Film at Terahertz Measured by Metamaterials. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 1167-1169	3.8	7
8	Propagation properties of a wave in a disordered multilayered system containing hyperbolic metamaterials. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 2995	1.7	6
7	Broadband polarization transformation via enhanced asymmetric transmission through arrays of twisted complementary split-ring resonators. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 221907	3.4	185
6	Broadband transparency achieved with the stacked metallic multi-layers perforated with coaxial annular apertures. <i>Optics Express</i> , <b>2011</b> , 19, 21425-31	3.3	19
5	An ultrathin twist-structure polarization transformer based on fish-scale metallic wires. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 151908	3.4	77
4	Nonlinear properties of meta-dimer comprised of coupled ring resonators. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 425303	3	16
3	Subwavelength electromagnetic diode: One-way response of cascading nonlinear meta-atoms. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 151903	3.4	43
2	Broadband negative refraction in stacked fishnet metamaterial. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 141901	3.4	29
1	Polarization-Multiplexed Silicon Metasurfaces for Multi-Channel Visible Light Modulation. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 2200013	15.6	3

