

Ran Hao

List of Publications by Year in descending order

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75
papers

1,660
citations

279701

23
h-index

289141

40
g-index

75
all docs

75
docs citations

75
times ranked

1824
citing authors

#	ARTICLE	IF	CITATIONS
1	Full-€Polarization 3D Metasurface Cloak with Preserved Amplitude and Phase. <i>Advanced Materials</i> , 2016, 28, 6866-6871.	11.1	259
2	Ultra-compact optical modulator by graphene induced electro-refraction effect. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	118
3	Gradient Chiral Metamirrors for Spin-€Selective Anomalous Reflection. <i>Laser and Photonics Reviews</i> , 2017, 11, 1700115.	4.4	89
4	Enhanced performance of a graphene/GaAs self-driven near-infrared photodetector with upconversion nanoparticles. <i>Nanoscale</i> , 2018, 10, 8023-8030.	2.8	84
5	Novel slow light waveguide with controllable delay-bandwidth product and ultra-low dispersion. <i>Optics Express</i> , 2010, 18, 5942.	1.7	76
6	Flat Band Slow Light in Symmetric Line Defect Photonic Crystal Waveguides. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1571-1573.	1.3	64
7	A Low-Profile Broadband Bandpass Frequency Selective Surface With Two Rapid Band Edges for 5G Near-Field Applications. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017, 59, 670-676.	1.4	61
8	Tunability Analysis of a Graphene-Embedded Ring Modulator. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 2008-2011.	1.3	60
9	Improvement of delay-bandwidth product in photonic crystal slow-light waveguides. <i>Optics Express</i> , 2010, 18, 16309.	1.7	58
10	Low-chirp high-extinction-ratio modulator based on graphene-€silicon waveguide. <i>Optics Letters</i> , 2013, 38, 2512.	1.7	55
11	Concealing arbitrary objects remotely with multi-folded transformation optics. <i>Light: Science and Applications</i> , 2016, 5, e16177-e16177.	7.7	52
12	Highly efficient graphene-on-gap modulator by employing the hybrid plasmonic effect. <i>Optics Letters</i> , 2017, 42, 1736.	1.7	44
13	The study of few-layer graphene based Mach-Zehnder modulator. <i>Optics Communications</i> , 2014, 323, 49-53.	1.0	41
14	Unidirectional surface plasmons in nonreciprocal graphene. <i>New Journal of Physics</i> , 2013, 15, 113003.	1.2	40
15	Ab initio optical study of graphene on hexagonal boron nitride and fluorographene substrates. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1618.	2.7	39
16	Novel Kind of Semislow Light Photonic Crystal Waveguides With Large Delay-Bandwidth Product. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 844-846.	1.3	38
17	Graphene Assisted TE/TM-Independent Polarizer Based on Mach-Zehnder Interferometer. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 1112-1115.	1.3	36
18	Improved Slow Light Capacity In Graphene-based Waveguide. <i>Scientific Reports</i> , 2015, 5, 15335.	1.6	31

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19	Two-dimensional light confinement in cross-index-modulation plasmonic waveguides. Optics Letters, 2012, 37, 2934.	1.7	29
20	Fabrication of annular photonic crystals by atomic layer deposition and sacrificial etching. Journal of Vacuum Science & Technology B, 2009, 27, 568-572.	1.3	28
21	Toroidal Localized Spoof Plasmons on Compact Metadisks. Advanced Science, 2018, 5, 1700487.	5.6	27
22	Design of annular photonic crystal slabs. Optics Letters, 2008, 33, 1614.	1.7	24
23	A Graphene-Enhanced Fiber-Optic Phase Modulator With Large Linear Dynamic Range. IEEE Photonics Technology Letters, 2014, 26, 1867-1870.	1.3	24
24	Design of Ultracompact Graphene-Based Superscatterers. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 130-137.	1.9	23
25	Experimental demonstration of a graphene-based hybrid plasmonic modulator. Optics Letters, 2019, 44, 2586.	1.7	23
26	A high performance polarization independent reflector based on a multilayered configuration grating structure. Journal of Optics (United Kingdom), 2010, 12, 045703.	1.0	18
27	Recent developments in graphene-based optical modulators. Frontiers of Optoelectronics, 2014, 7, 277-292.	1.9	17
28	A non-contact graphene surface scattering rate characterization method at microwave frequency by combining Raman spectroscopy and coaxial connectors measurement. Carbon, 2014, 77, 53-58.	5.4	17
29	Dynamic control of wideband slow wave in graphene based waveguides. Optics Letters, 2014, 39, 3094.	1.7	16
30	Polarizing beam splitter based on a subwavelength asymmetric profile grating. Journal of Optics (United Kingdom), 2010, 12, 015703.	1.0	14
31	Wideband Slow Light in One-Dimensional Chirped Holey Grating Waveguide. IEEE Photonics Technology Letters, 2010, 22, 1135-1137.	1.3	14
32	Scaling Analysis of High Gain Monolayer MoS ₂ Photodetector for Its Performance Optimization. IEEE Transactions on Electron Devices, 2016, 63, 1608-1614.	1.6	12
33	Electromagnetic Characteristics of Multiport TSVs Using L-2L De-Embedding Method and Shielding TSVs. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1541-1548.	1.4	12
34	Highly Efficient Graphene-Based Optical Modulator With Edge Plasmonic Effect. IEEE Photonics Journal, 2018, 10, 1-7.	1.0	11
35	A graphene-based all-fiber electro-absorption modulator. Journal of Optics (India), 2016, 45, 337-342.	0.8	8
36	An Active Absorber Based on Nonvolatile Floating-Gate Graphene Structure. IEEE Nanotechnology Magazine, 2017, 16, 189-195.	1.1	8

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37	Independent Bifocal Metalens Design Based on Deep Learning Algebra. IEEE Photonics Technology Letters, 2021, 33, 403-406.	1.3	8
38	PDN Impedance Modeling for Multiple Through Vias Array in Doped Silicon. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 1202-1209.	1.4	7
39	Ridge waveguide assisted highly efficient transverse-electric-pass polarizer based on a hybrid plasmonic waveguide. Applied Optics, 2018, 57, 5533.	0.9	7
40	Spoof Surface Plasmonic Graphene for Controlling the Transports and Emissions of Electromagnetic Waves. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 50-56.	2.9	7
41	Reconfigurable Parallel Plasmonic Transmission Lines With Nanometer Light Localization and Long Propagation Distance. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 4601809-4601809.	1.9	6
42	Double-Shielded Interposer With Highly Doped Layers for High-Speed Signal Propagation. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 1210-1217.	1.4	5
43	Ultra-compact graphene-embedded optical phase modulators. , 2014, , .		5
44	Large modulation capacity in graphene-based slot modulators by enhanced hybrid plasmonic effects. Scientific Reports, 2018, 8, 16830.	1.6	5
45	Increasing the bandwidth of slow light in fishbone-like grating waveguides. Photonics Research, 2019, 7, 240.	3.4	5
46	Silicon slow light photonic crystals structures: present achievements and future trends. Frontiers of Optoelectronics in China, 2011, 4, 243-253.	0.2	4
47	Novel Demodulation Method for Fiber-Optic Interferometers Based on $\pi/2$ Phase Modulation. IEEE Photonics Technology Letters, 2012, 24, 1981-1983.	1.3	4
48	Realizing the electromagnetically induced transparency (EIT)-like transmission with a single hole-ring resonator. Optics Communications, 2019, 445, 101-105.	1.0	4
49	Optimization of Graphene-Based Slot Waveguides for Efficient Modulation. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-5.	1.9	4
50	Revealing the Orbital Angular Momentum Spectrum and Correlation Phase of Optical Vortices With Wander Perturbations and Spiral Offsets. Journal of Lightwave Technology, 2022, 40, 2008-2014.	2.7	4
51	Carrier Dynamics of Nanopillar Textured Ultrathin Si Film/PEDOT:PSS Heterojunction Solar Cell. IEEE Journal of Photovoltaics, 2018, 8, 757-762.	1.5	3
52	Photonic Moiré lattice waveguide with a large slow light bandwidth and delay-bandwidth product. Applied Optics, 2022, 61, 5776.	0.9	3
53	Full RLGC model extraction of Through Silicon Via (TSV) with charge distribution effects. Journal of Electromagnetic Waves and Applications, 2014, 28, 1596-1609.	1.0	2
54	Graphene-aluminum oxide metamaterial for a compact polarization-independent modulator. , 2015, , .		2

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55	The complete bandgap in ring-shaped photonic crystal SOI slab. , 2008, , .		1
56	Graphene Embedded Modulator with Extremely Small Footprint and High Modulation Efficiency. Journal of Photonics, 2014, 2014, 1-6.	1.0	1
57	Plasmonic transmission lines with zero crosstalk. , 2016, , .		1
58	Modeling and Optimization of Substrate Electromagnetic Coupling and Isolation in Modern Lightly Doped CMOS Substrate. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 662-669.	1.4	1
59	Frequency optimization of permeability metamaterial for enhanced resolution. Applied Optics, 2019, 58, 3200.	0.9	1
60	Silicon based ultra-compact modulator with photonic crystal. Proceedings of SPIE, 2007, , .	0.8	0
61	Influence of the localization of process-induced disorder on planar photonic crystal waveguide properties. Proceedings of SPIE, 2010, , .	0.8	0
62	Investigation of the effects of process-induced disorder location on planar photonic crystal waveguide properties. Microelectronic Engineering, 2010, 87, 2301-2305.	1.1	0
63	A new kind of semi-slow light photonic crystal waveguides with large delay-bandwidth product. Proceedings of SPIE, 2010, , .	0.8	0
64	Silicon nanophotonic devices based on periodic structures. , 2010, , .		0
65	Terahertz modulator based on graphene-embedded waveguide. , 2016, , .		0
66	Large slow light capacity in graphene-based grating waveguide. , 2016, , .		0
67	A TE/TM independent polarizer based on graphene interferometer. , 2017, , .		0
68	A graphene-on-gap modulator with high modulation efficiency. , 2017, , .		0
69	A broadband and tunable absorber with non-volatile floating-gate graphene structure. , 2017, , .		0
70	Wideband slow light in grating waveguides. , 2018, , .		0
71	Graphene-based Hybrid Plasmonic Modulator with High Modulation Efficiency. , 2019, , .		0
72	Stop band blocking window modeling with energy absorber in 5G mid-band cellular communications. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22533.	0.8	0

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73	A wedge-to-wedge plasmonic waveguide for subwavelength confinement and long-range propagation. , 2012, , .		0
74	Tunable slow wave waveguides based on graphene. , 2015, , .		0
75	Experimental demonstration of a graphene-based hybrid plasmonic modulator: publisher's note. Optics Letters, 2020, 45, 827.	1.7	0