

Kan Yao

List of Publications by Citations

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44
papers

1,308
citations

20
h-index

36
g-index

51
ext. papers

1,627
ext. citations

7.9
avg, IF

5.13
L-index

#	Paper	IF	Citations
44	Graphene Plasmonic Metasurfaces to Steer Infrared Light. <i>Scientific Reports</i> , 2015 , 5, 12423	4.9	165
43	Circular Dichroism Metamirrors with Near-Perfect Extinction. <i>ACS Photonics</i> , 2016 , 3, 2096-2101	6.3	162
42	Intelligent nanophotonics: merging photonics and artificial intelligence at the nanoscale. <i>Nanophotonics</i> , 2019 , 8, 339-366	6.3	138
41	Origami-Based Reconfigurable Metamaterials for Tunable Chirality. <i>Advanced Materials</i> , 2017 , 29, 1700412	12	129
40	Manipulating Smith-Purcell Emission with Babinet Metasurfaces. <i>Physical Review Letters</i> , 2016 , 117, 157401	7.0	70
39	Plasmonic metamaterials. <i>Nanotechnology Reviews</i> , 2014 , 3,	6.3	49
38	Plasmonic superlensing in doped GaAs. <i>Nano Letters</i> , 2015 , 15, 1057-61	11.5	41
37	Two-dimensional electromagnetic cloaks with non-conformal inner and outer boundaries. <i>Optics Express</i> , 2008 , 16, 19366-74	3.3	41
36	Enhancing circular dichroism by chiral hotspots in silicon nanocube dimers. <i>Nanoscale</i> , 2018 , 10, 8779-8786	6.7	39
35	A Broadband Optical Diode for Linearly Polarized Light Using Symmetry-Breaking Metamaterials. <i>Advanced Optical Materials</i> , 2017 , 5, 1700600	8.1	38
34	Designing feasible optical devices via conformal mapping. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 1037	1.7	36
33	Controlling Electric and Magnetic Resonances for Ultracompact Nanoantennas with Tunable Directionality. <i>ACS Photonics</i> , 2016 , 3, 953-963	6.3	33
32	Nanoradiator-Mediated Deterministic Opto-Thermoelectric Manipulation. <i>ACS Nano</i> , 2018 , 12, 10383-10392	10.7	32
31	Experimental verification of broadband invisibility using a cloak based on inductor-capacitor networks. <i>Applied Physics Letters</i> , 2009 , 95, 191107	3.4	30
30	Oriented Assembly of Gold Nanoparticles with Freezing-Driven Surface DNA Manipulation and Its Application in SERS-Based MicroRNA Assay. <i>Small Methods</i> , 2019 , 3, 1900017	12.8	29
29	Deep sub-wavelength nanofocusing of UV-visible light by hyperbolic metamaterials. <i>Scientific Reports</i> , 2016 , 6, 38645	4.9	29
28	Near-Ultraviolet Dielectric Metasurfaces: from Surface-Enhanced Circular Dichroism Spectroscopy to Polarization-Preserving Mirrors. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11814-11822	3.8	27

27	Graphene-metal hybrid metamaterials for strong and tunable circular dichroism generation. <i>Optics Letters</i> , 2018 , 43, 2636-2639	3	26
26	Tunable Chiral Optics in All-Solid-Phase Reconfigurable Dielectric Nanostructures. <i>Nano Letters</i> , 2021 , 21, 973-979	11.5	21
25	Deep Convolutional Mixture Density Network for Inverse Design of Layered Photonic Structures. <i>ACS Photonics</i> , 2020 , 7, 2703-2712	6.3	20
24	Precisely Tuning LSPR Property via "Peptide-Encoded" Morphological Evolution of Gold Nanorods for Quantitative Visualization of Enzyme Activity. <i>Analytical Chemistry</i> , 2020 , 92, 1395-1401	7.8	18
23	Experimental realization of a broadband conformal mapping lens for directional emission. <i>Applied Physics Letters</i> , 2012 , 100, 261907	3.4	17
22	Invisibility Cloaks Modeled by Anisotropic Metamaterials Based on Inductor-Capacitor Networks. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2009 , 8, 1154-1157	3.8	14
21	Harnessing Evanescent Waves by Bianisotropic Metasurfaces. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900244	8.3	12
20	Conformal transformations to achieve unidirectional behavior of light. <i>New Journal of Physics</i> , 2012 , 14, 053023	2.9	11
19	Collimating lenses from non-Euclidean transformation optics. <i>New Journal of Physics</i> , 2012 , 14, 023011	2.9	9
18	Conformal Singularities and Topological Defects from Inverse Transformation Optics. <i>Physical Review Applied</i> , 2019 , 11,	4.3	8
17	Far-field imaging beyond diffraction limit using single sensor in combination with a resonant aperture. <i>Optics Express</i> , 2015 , 23, 401-12	3.3	7
16	Plasmonic Nanotweezers and Nanosensors for Point-of-Care Applications. <i>Advanced Optical Materials</i> , 2021 , 9, 2100050	8.1	7
15	A mixture-density-based tandem optimization network for on-demand inverse design of thin-film high reflectors. <i>Nanophotonics</i> , 2021 ,	6.3	6
14	Generalized laws of reflection and refraction from transformation optics. <i>Europhysics Letters</i> , 2012 , 99, 44002	1.6	5
13	Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres. <i>Advanced Materials</i> , 2021 , 33, e2007236	24	5
12	Self-Assembly of Silica-Gold Core-Shell Microparticles by Electric Fields Toward Dynamically Tunable Metamaterials. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14417-14422	9.5	5
11	Directional light emission by electric and magnetic dipoles near a nanosphere: an analytical approach based on the generalized Mie theory. <i>Optics Letters</i> , 2021 , 46, 302-305	3	5
10	An analogy strategy for transformation optics. <i>New Journal of Physics</i> , 2014 , 16, 063008	2.9	4

9	Wide-range and tunable diffraction management using 2D rectangular lattice photonic crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014 , 31, 1145	1.7	4
8	Medium parameters and electromagnetic characteristics of arbitrary polygon cloaks. <i>IET Microwaves, Antennas and Propagation</i> , 2010 , 4, 1672	1.6	4
7	Infrared Plasmonic Resonators Based on Self-Assembled Core-Shell Particles. <i>ACS Photonics</i> , 2018 , 5, 844-851	6.3	4
6	Room-temperature Observation of Near-intrinsic Exciton Linewidth in Monolayer WS ₂ . <i>Advanced Materials</i> , 2022 , e2108721	24	2
5	Controlling the polarization of chiral dipolar emission with a spherical dielectric nanoantenna. <i>Journal of Chemical Physics</i> , 2021 , 155, 224110	3.9	2
4	Dielectric Nanospheres: Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres (Adv. Mater. 20/2021). <i>Advanced Materials</i> , 2021 , 33, 2170153	24	0
3	Plasmonic Nanotweezers and Nanosensors for Point-of-Care Applications (Advanced Optical Materials 13/2021). <i>Advanced Optical Materials</i> , 2021 , 9, 2170051	8.1	
2	Chapter 2 Conformal Mapping in Transformation Optics 2016 , 29-88		
1	Room-Temperature Observation of Near-Intrinsic Exciton Linewidth in Monolayer WS ₂ (Adv. Mater. 15/2022). <i>Advanced Materials</i> , 2022 , 34, 2270115	24	