

# Kan Yao

## List of Publications by Year in descending order

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50  
papers

1,946  
citations

304368

22  
h-index

243296

44  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2398  
citing authors

#	ARTICLE	IF	CITATIONS
1	Circular Dichroism Metamirrors with Near-Perfect Extinction. <i>ACS Photonics</i> , 2016, 3, 2096-2101.	3.2	240
2	Intelligent nanophotonics: merging photonics and artificial intelligence at the nanoscale. <i>Nanophotonics</i> , 2019, 8, 339-366.	2.9	226
3	Origami-Based Reconfigurable Metamaterials for Tunable Chirality. <i>Advanced Materials</i> , 2017, 29, 1700412.	11.1	193
4	Graphene Plasmonic Metasurfaces to Steer Infrared Light. <i>Scientific Reports</i> , 2015, 5, 12423.	1.6	190
5	Manipulating Smith-Purcell Emission with Babinet Metasurfaces. <i>Physical Review Letters</i> , 2016, 117, 157401.	2.9	108
6	Plasmonic metamaterials. <i>Nanotechnology Reviews</i> , 2014, 3, .	2.6	77
7	Enhancing circular dichroism by chiral hotspots in silicon nanocube dimers. <i>Nanoscale</i> , 2018, 10, 8779-8786.	2.8	64
8	Deep Convolutional Mixture Density Network for Inverse Design of Layered Photonic Structures. <i>ACS Photonics</i> , 2020, 7, 2703-2712.	3.2	60
9	A Broadband Optical Diode for Linearly Polarized Light Using Symmetry-Breaking Metamaterials. <i>Advanced Optical Materials</i> , 2017, 5, 1700600.	3.6	52
10	Plasmonic Superlensing in Doped GaAs. <i>Nano Letters</i> , 2015, 15, 1057-1061.	4.5	48
11	Designing feasible optical devices via conformal mapping. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 1037.	0.9	47
12	Two-dimensional electromagnetic cloaks with non-conformal inner and outer boundaries. <i>Optics Express</i> , 2008, 16, 19366.	1.7	45
13	Graphene-metal hybrid metamaterials for strong and tunable circular dichroism generation. <i>Optics Letters</i> , 2018, 43, 2636.	1.7	44
14	Controlling Electric and Magnetic Resonances for Ultracompact Nanoantennas with Tunable Directionality. <i>ACS Photonics</i> , 2016, 3, 953-963.	3.2	43
15	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.	1.5	42
16	Tunable Chiral Optics in All-Solid-Phase Reconfigurable Dielectric Nanostructures. <i>Nano Letters</i> , 2021, 21, 973-979.	4.5	42
17	Nanoradiator-Mediated Deterministic Opto-Thermoelectric Manipulation. <i>ACS Nano</i> , 2018, 12, 10383-10392.	7.3	41
18	Experimental verification of broadband invisibility using a cloak based on inductor-capacitor networks. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	38

#	ARTICLE	IF	CITATIONS
19	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.	4.6	37
20	Deep sub-wavelength nanofocusing of UV-visible light by hyperbolic metamaterials. <i>Scientific Reports</i> , 2016, 6, 38645.	1.6	33
21	Harnessing Evanescent Waves by Bianisotropic Metasurfaces. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900244.	4.4	33
22	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.	3.2	25
23	Experimental realization of a broadband conformal mapping lens for directional emission. <i>Applied Physics Letters</i> , 2012, 100, 261907.	1.5	21
24	Invisibility Cloaks Modeled by Anisotropic Metamaterials Based on Inductor-Capacitor Networks. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2009, 8, 1154-1157.	2.4	19
25	Opto-Thermocapillary Nanomotors on Solid Substrates. <i>ACS Nano</i> , 2022, 16, 8820-8826.	7.3	19
26	A mixture-density-based tandem optimization network for on-demand inverse design of thin-film high reflectors. <i>Nanophotonics</i> , 2021, 10, 4057-4065.	2.9	18
27	Plasmonic Nanotweezers and Nanosensors for Point-of-Care Applications. <i>Advanced Optical Materials</i> , 2021, 9, 2100050.	3.6	16
28	Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres. <i>Advanced Materials</i> , 2021, 33, e2007236.	11.1	15
29	Collimating lenses from non-Euclidean transformation optics. <i>New Journal of Physics</i> , 2012, 14, 023011.	1.2	12
30	Conformal transformations to achieve unidirectional behavior of light. <i>New Journal of Physics</i> , 2012, 14, 053023.	1.2	12
31	Self-Assembly of Silica-Gold Core-Shell Microparticles by Electric Fields Toward Dynamically Tunable Metamaterials. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 14417-14422.	4.0	11
32	Room-Temperature Observation of Near-Intrinsic Exciton Linewidth in Monolayer WS <sub>2</sub> . <i>Advanced Materials</i> , 2022, 34, e2108721.	11.1	11
33	Conformal Singularities and Topological Defects from Inverse Transformation Optics. <i>Physical Review Applied</i> , 2019, 11, .	1.5	10
34	Medium parameters and electromagnetic characteristics of arbitrary polygon cloaks. <i>IET Microwaves, Antennas and Propagation</i> , 2010, 4, 1672.	0.7	8
35	Far-field imaging beyond diffraction limit using single sensor in combination with a resonant aperture. <i>Optics Express</i> , 2015, 23, 401.	1.7	8
36	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.	1.7	8

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37	Generalized laws of reflection and refraction from transformation optics. Europhysics Letters, 2012, 99, 44002.	0.7	7
38	Infrared Plasmonic Resonators Based on Self-Assembled Core-Shell Particles. ACS Photonics, 2018, 5, 844-851.	3.2	6
39	Wide-range and tunable diffraction management using 2D rectangular lattice photonic crystals. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1145.	0.9	5
40	An analogy strategy for transformation optics. New Journal of Physics, 2014, 16, 063008.	1.2	4
41	Controlling the polarization of chiral dipolar emission with a spherical dielectric nanoantenna. Journal of Chemical Physics, 2021, 155, 224110.	1.2	2
42	Room-Temperature Observation of Near-Intrinsic Exciton Linewidth in Monolayer WS <sub>2</sub> (Adv. Mater. 15/2022). Advanced Materials, 2022, 34, .	11.1	2
43	Dielectric Nanospheres: Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres (Adv. Mater. 20/2021). Advanced Materials, 2021, 33, 2170153.	11.1	1
44	Plasmonic metamaterials. Nanotechnology Reviews, 2013, .	2.6	1
45	Engineering Dielectric Metasurfaces for Chirality-Sorting Optical Forces and Fano-Interference-Enhanced Chirality. , 2020, , .		1
46	Chapter 2 Conformal Mapping in Transformation Optics. , 2016, , 29-88.		0
47	Plasmonic Nanotweezers and Nanosensors for Point-of-Care Applications (Advanced Optical Materials) Tj ETQq <sub>1</sub> 1 0.784314 rgBT <sub>3.6</sub> 0		0
48	A Deep Mixture Density Network for On-Demand Inverse Design of Thin Film Reflectors. , 2021, , .		0
49	Near-Ultraviolet Dielectric Metasurfaces for Surface-Enhanced Circular Dichroism Spectroscopy and Handedness-Preserved Reflection. , 2019, , .		0
50	Deep Convolutional Neural Network for the Inverse Design of Layered Photonic Structures. , 2020, , .		0