

# Kai Chen

## List of Publications by Year in descending order

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70  
papers

2,064  
citations

257450

24  
h-index

233421

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71  
all docs

71  
docs citations

71  
times ranked

2891  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-Band Perfect Absorber for Multispectral Plasmon-Enhanced Infrared Spectroscopy. ACS Nano, 2012, 6, 7998-8006.	14.6	459
2	Infrared Perfect Absorbers Fabricated by Colloidal Mask Etching of Al <sub>2</sub> O <sub>3</sub> Al Trilayers. ACS Photonics, 2015, 2, 964-970.	6.6	172
3	Infrared Aluminum Metamaterial Perfect Absorbers for Plasmon-Enhanced Infrared Spectroscopy. Advanced Functional Materials, 2015, 25, 6637-6643.	14.9	129
4	Hole Array Perfect Absorbers for Spectrally Selective Midwavelength Infrared Pyroelectric Detectors. ACS Photonics, 2016, 3, 1271-1278.	6.6	92
5	Moiré Nanosphere Lithography. ACS Nano, 2015, 9, 6031-6040.	14.6	91
6	Plasmon-Enhanced Second-Harmonic Generation from Ionic Self-Assembled Multilayer Films. Nano Letters, 2007, 7, 254-258.	9.1	81
7	Spectrally Selective Mid-Infrared Thermal Emission from Molybdenum Plasmonic Metamaterial Operated up to 1000 Å°C. Advanced Optical Materials, 2016, 4, 1987-1992.	7.3	79
8	Solar water heating and vaporization with silicon nanoparticles at mie resonances. Optical Materials Express, 2016, 6, 640.	3.0	69
9	Anapole mediated giant photothermal nonlinearity in nanostructured silicon. Nature Communications, 2020, 11, 3027.	12.8	69
10	Restricted meniscus convective self-assembly. Journal of Colloid and Interface Science, 2010, 344, 315-320.	9.4	55
11	High-sensitivity and fast-response fiber-tip Fabry-Pérot hydrogen sensor with suspended palladium-decorated graphene. Nanoscale, 2019, 11, 15821-15827.	5.6	49
12	High quality thermochromic VO <sub>2</sub> films prepared by magnetron sputtering using V <sub>2</sub> O <sub>5</sub> target with in situ annealing. Applied Surface Science, 2019, 495, 143436.	6.1	44
13	Tunable Nanoantennas for Surface Enhanced Infrared Absorption Spectroscopy by Colloidal Lithography and Post-Fabrication Etching. Scientific Reports, 2017, 7, 44069.	3.3	37
14	Effect of different surfactants on structural and optical properties of Ce <sup>3+</sup> and Tb <sup>3+</sup> co-doped BiPO <sub>4</sub> nanostructures. Optical Materials, 2015, 39, 110-117.	3.6	34
15	Resonant Optical Absorption and Photothermal Process in High Refractive Index Germanium Nanoparticles. Advanced Optical Materials, 2017, 5, 1600902.	7.3	34
16	Ultra-Broadband Directional Scattering by Colloidally Lithographed High-Index Mie Resonant Oligomers and Their Energy-Harvesting Applications. ACS Applied Materials & Interfaces, 2018, 10, 16776-16782.	8.0	34
17	Photocurrent Enhancements of TiO <sub>2</sub> -Based Nanocomposites with Gold Nanostructures/Reduced Graphene Oxide on Nanobranching Substrate. Journal of Physical Chemistry C, 2019, 123, 21103-21113.	3.1	33
18	Ultra-Narrow Band Mid-Infrared Perfect Absorber Based on Hybrid Dielectric Metasurface. Nanomaterials, 2019, 9, 1350.	4.1	30

#	ARTICLE	IF	CITATIONS
19	Structure and optical properties of sputter deposited pseudobrookite $\text{Fe}_2\text{TiO}_5$ thin films. <i>CrystEngComm</i> , 2019, 21, 34-40.	2.6	30
20	Tunable multiband metasurfaces by moiré nanosphere lithography. <i>Nanoscale</i> , 2015, 7, 20391-20396.	5.6	29
21	Angle- and polarization-dependent collective excitation of plasmonic nanoarrays for surface enhanced infrared spectroscopy. <i>Optics Express</i> , 2011, 19, 11202.	3.4	27
22	Ultra-narrow-band metamaterial perfect absorber based on surface lattice resonance in a $\text{WS}_2$ nanodisk array. <i>Optics Express</i> , 2021, 29, 27084.	3.4	27
23	Active molecular plasmonics: tuning surface plasmon resonances by exploiting molecular dimensions. <i>Nanophotonics</i> , 2015, 4, 186-197.	6.0	26
24	Robust dithiocarbamate-anchored amine functionalization of Au nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011, 13, 751-761.	1.9	24
25	Protein-functionalized Indium Tin Oxide Nanoantenna Arrays for Selective Infrared Biosensing. <i>Advanced Optical Materials</i> , 2017, 5, 1700091.	7.3	23
26	High- $Q$ , low-mode-volume and multiresonant plasmonic nanoslit cavities fabricated by helium ion milling. <i>Nanoscale</i> , 2018, 10, 17148-17155.	5.6	22
27	Dual-band <i>in situ</i> molecular spectroscopy using single-sized Al-disk perfect absorbers. <i>Nanoscale</i> , 2019, 11, 9508-9517.	5.6	22
28	Selective patterned growth of ZnO nanowires/nanosheets and their photoluminescence properties. <i>Optical Materials Express</i> , 2015, 5, 353.	3.0	21
29	Cylindrical vector beams reveal radiationless anapole condition in a resonant state. <i>Opto-Electronic Advances</i> , 2022, 5, 210014-210014.	13.3	21
30	Selective thermal emitters with infrared plasmonic indium tin oxide working in the atmosphere. <i>Optical Materials Express</i> , 2019, 9, 2534.	3.0	20
31	Flexible microbubble-based Fabry-Pérot cavity for sensitive ultrasound detection and wide-view photoacoustic imaging. <i>Photonics Research</i> , 2020, 8, 1558.	7.0	19
32	Electromechanically Tunable Suspended Optical Nanoantenna. <i>Nano Letters</i> , 2016, 16, 2680-2685.	9.1	18
33	Excitation Induced Tunable Emission in $\text{Ce}^{3+}/\text{Eu}^{3+}$ Codoped $\text{BiPO}_4$ Nanophosphors. <i>Journal of Spectroscopy</i> , 2015, 2015, 1-10.	1.3	14
34	Rayleigh anomaly-enabled mode hybridization in gold nanohole arrays by scalable colloidal lithography for highly-sensitive biosensing. <i>Nanophotonics</i> , 2022, 11, 507-517.	6.0	14
35	Far-field and near-field monitoring of hybridized optical modes from Au nanoprisms suspended on a graphene/Si nanopillar array. <i>Nanoscale</i> , 2017, 9, 16950-16959.	5.6	10
36	Effects of nanoscale morphology and defects in oxide: optoelectronic functions of zinc oxide nanowires. <i>Radiation Effects and Defects in Solids</i> , 2016, 171, 22-33.	1.2	9

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37	Enhanced photocurrent generation from indium-tin-oxide/Fe <sub>2</sub> TiO <sub>5</sub> hybrid nanocone arrays. <i>Nano Energy</i> , 2020, 76, 104965.	16.0	9
38	Transparent oxides forming conductor/insulator/conductor heterojunctions for photodetection. <i>Nanotechnology</i> , 2015, 26, 215203.	2.6	8
39	Morphology Effect of Bismuth Vanadate on Electrochemical Sensing for the Detection of Paracetamol. <i>Nanomaterials</i> , 2022, 12, 1173.	4.1	8
40	Band-rejection and bandpass filters based on mechanically induced long-period fiber gratings. <i>Microwave and Optical Technology Letters</i> , 2004, 42, 15-17.	1.4	7
41	Interface effects in plasmon-enhanced second-harmonic generation from self-assembled multilayer films. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 92.	2.1	7
42	Cylindrical vector beam revealing multipolar nonlinear scattering for superlocalization of silicon nanostructures. <i>Photonics Research</i> , 2021, 9, 950.	7.0	7
43	Plasmon mediated cathodic photocurrent generation in sol-gel synthesized doped SrTiO <sub>3</sub> nanofilms. <i>APL Materials</i> , 2015, 3, .	5.1	6
44	Indium-Tin-Oxide Nanostructures for Plasmon-Enhanced Infrared Spectroscopy: A Numerical Study. <i>Micromachines</i> , 2019, 10, 241.	2.9	6
45	Etching-free high-throughput intersectional nanofabrication of diverse optical nanoantennas for nanoscale light manipulation. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 950-959.	9.4	6
46	Nanoantenna Structure with Mid-Infrared Plasmonic Niobium-Doped Titanium Oxide. <i>Micromachines</i> , 2020, 11, 23.	2.9	5
47	Sunlight absorbing titanium nitride nanoparticles. , 2015, , .		4
48	Enhanced Multiphoton-Induced Luminescence in Silver Nanoparticles Fabricated with Nanosphere Lithography. <i>Plasmonics</i> , 2015, 10, 87-98.	3.4	4
49	A novel interleaver based on dual-pass Mach-Zehnder interferometer. <i>Microwave and Optical Technology Letters</i> , 2004, 42, 253-255.	1.4	3
50	Loss-favored ultrasensitive refractive index sensor based on directional scattering from a single all-dielectric nanosphere. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6350-6357.	5.5	3
51	Ensemble of gold-patchy nanoparticles with multiple hot-spots for plasmon-enhanced vibrational spectroscopy. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
52	Mass Fabrication of WS <sub>2</sub> Nanodisks and their Scattering Properties. <i>Advanced Materials Technologies</i> , 0, , 2200432.	5.8	2
53	Aluminum infrared plasmonic perfect absorbers fabricated by colloidal lithography. , 2015, , .		1
54	Moiré nanosphere lithography: use colloidal moiré patterns as masks. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1

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55	Aluminum infrared plasmonic perfect absorbers for wavelength selective devices. Proceedings of SPIE, 2016, , .	0.8	1
56	UV-visible light photocurrent enhancement in STO thin films through metal-defect co-doping effect combined with Au plasmons. Materials Express, 2017, 7, 66-71.	0.5	1
57	Metal/Conductive Oxide Plasmonic Structures for Surface-Enhanced Infrared Absorption Spectroscopy. Bunseki Kagaku, 2018, 67, 81-94.	0.2	1
58	High Temperature Wavelength-Selective Thermal Emitters Based on Metal-Insulator-Metal Structures. Hyomen Kagaku, 2016, 37, 380-385.	0.0	1
59	Effect of the Interface in Plasmon-enhanced Second Harmonic Generation from Nonlinear Optical Thin Films. Materials Research Society Symposia Proceedings, 2010, 1248, 1120.	0.1	0
60	The Relationship between Growth Speed and Ambient Humidity in Convective Self-assembly. Materials Research Society Symposia Proceedings, 2010, 1273, 10701.	0.1	0
61	Thin and Robust Encapsulation of Silver and Gold Nanoparticles with Dithiocarbamate-anchored Polyelectrolytes. Materials Research Society Symposia Proceedings, 2011, 1348, 140001.	0.1	0
62	Integrated plasmonic nanobiosensors. , 2013, , .		0
63	Large Area, Aluminum Metal-Insulator-Metal Infrared Perfect Absorber. , 2014, , .		0
64	Large-area Tunable Al Plasmonic Substrate for Infrared Spectroscopy. , 2014, , .		0
65	Lossy plasmonic resonances in nanoparticles for broadband light absorption. , 2015, , .		0
66	Fabrication and Characterization of Moiré Metasurfaces. , 2016, , .		0
67	Nanowire-plasmonic photocatalysts and thermal emitters. , 2017, , .		0
68	Ultra-narrow Nanoslit Cavities for High-Q Resonances in the Visible Range. , 2018, , .		0
69	Enhanced photoelectrochemical water splitting by plasmonic Au nanostructures/reduced graphene oxide. , 2018, , .		0
70	Al nanoantennas for plasmon-enhanced infrared spectroscopy. , 2018, , .		0