

Zhiyuan Fan

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

5,921
citations

236612

25
h-index

414034

32
g-index

41
all docs

41
docs citations

41
times ranked

6362
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA-based self-assembly of chiral plasmonic nanostructures with tailored optical response. <i>Nature</i> , 2012, 483, 311-314.	13.7	1,868
2	Theory of Circular Dichroism of Nanomaterials Comprising Chiral Molecules and Nanocrystals: Plasmon Enhancement, Dipole Interactions, and Dielectric Effects. <i>Nano Letters</i> , 2010, 10, 1374-1382.	4.5	562
3	Plasmonic Circular Dichroism of Chiral Metal Nanoparticle Assemblies. <i>Nano Letters</i> , 2010, 10, 2580-2587.	4.5	440
4	Chiral plasmonic DNA nanostructures with switchable circular dichroism. <i>Nature Communications</i> , 2013, 4, 2948.	5.8	289
5	Plexciton Dynamics: Exciton-Plasmon Coupling in a J-Aggregate Au Nanoshell Complex Provides a Mechanism for Nonlinearity. <i>Nano Letters</i> , 2011, 11, 1556-1560.	4.5	260
6	Chiral nanoparticle assemblies: circular dichroism, plasmonic interactions, and exciton effects. <i>Journal of Materials Chemistry</i> , 2011, 21, 16806.	6.7	227
7	Amplification of Chiroptical Activity of Chiral Biomolecules by Surface Plasmons. <i>Nano Letters</i> , 2013, 13, 1203-1209.	4.5	209
8	Induced Chirality through Electromagnetic Coupling between Chiral Molecular Layers and Plasmonic Nanostructures. <i>Nano Letters</i> , 2012, 12, 977-983.	4.5	204
9	Enantioselective control of lattice and shape chirality in inorganic nanostructures using chiral biomolecules. <i>Nature Communications</i> , 2014, 5, 4302.	5.8	187
10	Chiral Nanocrystals: Plasmonic Spectra and Circular Dichroism. <i>Nano Letters</i> , 2012, 12, 3283-3289.	4.5	167
11	Near Infrared, Highly Efficient Luminescent Solar Concentrators. <i>Advanced Energy Materials</i> , 2016, 6, 1501913.	10.2	161
12	Experimental demonstration of the microscopic origin of circular dichroism in two-dimensional metamaterials. <i>Nature Communications</i> , 2016, 7, 12045.	5.8	155
13	Theory of Chiral Plasmonic Nanostructures Comprising Metal Nanocrystals and Chiral Molecular Media. <i>ChemPhysChem</i> , 2012, 13, 2551-2560.	1.0	154
14	Plasmonic Chiroptical Response of Silver Nanoparticles Interacting with Chiral Supramolecular Assemblies. <i>Journal of the American Chemical Society</i> , 2012, 134, 17807-17813.	6.6	144
15	Helical Metal Nanoparticle Assemblies with Defects: Plasmonic Chirality and Circular Dichroism. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13254-13261.	1.5	129
16	Powering the programmed nanostructure and function of gold nanoparticles with catenated DNA machines. <i>Nature Communications</i> , 2013, 4, 2000.	5.8	127
17	Broad Band Enhancement of Light Absorption in Photosystem I by Metal Nanoparticle Antennas. <i>Nano Letters</i> , 2010, 10, 2069-2074.	4.5	121
18	Photon acceleration and tunable broadband harmonics generation in nonlinear time-dependent metasurfaces. <i>Nature Communications</i> , 2019, 10, 1345.	5.8	82

#	ARTICLE	IF	CITATIONS
19	Controlling photoinduced electron transfer from PbS@CdS core@shell quantum dots to metal oxide nanostructured thin films. <i>Nanoscale</i> , 2014, 6, 7004-7011.	2.8	81
20	Optical Properties of Chiral Plasmonic Tetramers: Circular Dichroism and Multipole Effects. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14770-14777.	1.5	70
21	Perfect Diffraction with Multiresonant Bianisotropic Metagratings. <i>ACS Photonics</i> , 2018, 5, 4303-4311.	3.2	52
22	Midinfrared Plasmonic Valleytronics in Metagate-Tuned Graphene. <i>Physical Review Letters</i> , 2018, 121, 086807.	2.9	45
23	Generation of even and odd high harmonics in resonant metasurfaces using single and multiple ultra-intense laser pulses. <i>Nature Communications</i> , 2021, 12, 4185.	5.8	40
24	Photoinduced large polaron transport and dynamics in organic-inorganic hybrid lead halide perovskite with terahertz probes. <i>Light: Science and Applications</i> , 2022, 11, .	7.7	27
25	Green synthesis of near infrared core/shell quantum dots for photocatalytic hydrogen production. <i>Nanotechnology</i> , 2016, 27, 495405.	1.3	25
26	Time-variant metasurfaces enable tunable spectral bands of negative extinction. <i>Optica</i> , 2019, 6, 1441.	4.8	22
27	Monitoring the effects of chemical stimuli on live cells with metasurface-enhanced infrared reflection spectroscopy. <i>Lab on A Chip</i> , 2021, 21, 3991-4004.	3.1	18
28	Critical process of extraordinary optical transmission through periodic subwavelength hole array: Hole-assisted evanescent-field coupling. <i>Optics Communications</i> , 2008, 281, 5467-5471.	1.0	17
29	Polarization states synthesizer based on a thermo-optic dielectric metasurface. <i>Journal of Applied Physics</i> , 2019, 126, 073102.	1.1	15
30	Electrically defined topological interface states of graphene surface plasmons based on a gate-tunable quantum Bragg grating. <i>Nanophotonics</i> , 2019, 8, 1417-1431.	2.9	8
31	Enhancement of second-harmonic generation with phase-matching on periodic sub-wavelength structured metal film. <i>Optics Communications</i> , 2007, 276, 8-13.	1.0	7
32	Nonlinear Manifestations of Photon Acceleration in Rapidly Evolving Semiconductor Metasurfaces. , 2018, , .		2
33	Chiral Nanostructures with Plasmon and Exciton Resonances. , 2014, , 1-55.		1
34	Luminescent Solar Concentrators: Near Infrared, Highly Efficient Luminescent Solar Concentrators (<i>Adv. Energy Mater.</i> 11/2016). <i>Advanced Energy Materials</i> , 2016, 6, .	10.2	1
35	Perfect Diffraction using All-Dielectric Bianisotropic Metagratings. , 2018, , .		1
36	Bianisotropic All-dielectric Metasurfaces for Efficient Diffraction of Mid-infrared Electromagnetic Waves. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
37	Topological Valley Transport of Infrared Plasmons on a Nanoscale in Metagate-tuned Graphene. , 2018, , .		0
38	Thermo-optic Dielectric Metasurfaces for Polarization State Synthesizers and Active Lensing. , 2020, , .		0
39	High Harmonic Generation from a Large-gap Semiconductor Metasurface. , 2020, , .		0