

Song Sun

List of Publications by Year in descending order

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50
papers

1,029
citations

516681

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h-index

434170

31
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docs citations

50
times ranked

1416
citing authors

#	ARTICLE	IF	CITATIONS
1	Capacitive-Ended Interdigital Coupled Lines for UWB Bandpass Filters With Improved Out-of-Band Performances. <i>IEEE Microwave and Wireless Components Letters</i> , 2006, 16, 440-442.	3.2	182
2	On-chip molecular electronic plasmon sources based on self-assembled monolayer tunnel junctions. <i>Nature Photonics</i> , 2016, 10, 274-280.	31.4	110
3	State-of-the-art photodetectors for optoelectronic integration at telecommunication wavelength. <i>Nanophotonics</i> , 2015, 4, 277-302.	6.0	76
4	Over-barrier side-band electron emission from graphene with a time-oscillating potential. <i>Carbon</i> , 2013, 61, 294-298.	10.3	67
5	Fluorescence enhancement in visible light: dielectric or noble metal?. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19324-19335.	2.8	45
6	Metal@Dielectric Hybrid Dimer Nanoantenna: Coupling between Surface Plasmons and Dielectric Resonances for Fluorescence Enhancement. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12871-12884.	3.1	45
7	Critical Role of Shell in Enhanced Fluorescence of Metal@Dielectric Core@Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13365-13373.	3.1	43
8	Spintronic terahertz emitter. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	39
9	Klein tunnelling model of low energy electron field emission from single-layer graphene sheet. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	38
10	Enabling switchable and multifunctional terahertz metasurfaces with phase-change material. <i>Optical Materials Express</i> , 2020, 10, 2054.	3.0	29
11	Interference-Induced Broadband Absorption Enhancement for Plasmonic-Metal@Semiconductor Microsphere as Visible Light Photocatalyst. <i>ACS Catalysis</i> , 2014, 4, 4269-4276.	11.2	27
12	Enhanced Directional Fluorescence Emission of Randomly Oriented Emitters via a Metal@Dielectric Hybrid Nanoantenna. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21150-21160.	3.1	27
13	Onset of space charge limited current for field emission from a single sharp tip. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	24
14	Multipolar-interference-assisted terahertz waveplates via all-dielectric metamaterials. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	24
15	Bionic optical physical unclonable functions for authentication and encryption. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13200-13208.	5.5	23
16	Kretschmann-Raether configuration: Revision of the theory of resonant interaction. <i>Physical Review B</i> , 2017, 96, .	3.2	22
17	Analysis of nonuniform field emission from a sharp tip emitter of Lorentzian or hyperboloid shape. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	16
18	Highly efficient unidirectional forward scattering induced by resonant interference in a metal@dielectric heterodimer. <i>Nanoscale</i> , 2020, 12, 22289-22297.	5.6	16

#	ARTICLE	IF	CITATIONS
19	Nanoantenna-Enhanced Light-Emitting Diodes: Fundamental and Recent Progress. Laser and Photonics Reviews, 2021, 15, 2000367.	8.7	16
20	Broadband thin-film and metamaterial absorbers using refractory vanadium nitride and their thermal stability. Optics Express, 2021, 29, 33456.	3.4	16
21	Performance Improvement of GaN Based Laser Diode Using Pd/Ni/Au Metallization Ohmic Contact. Coatings, 2019, 9, 291.	2.6	15
22	Spacer-controlled emission of randomly oriented fluorophores enhanced with surface plasmon-polaritons. Physical Chemistry Chemical Physics, 2017, 19, 8706-8714.	2.8	14
23	Hybrid Mushroom Nanoantenna for Fluorescence Enhancement by Matching the Stokes Shift of the Emitter. Journal of Physical Chemistry C, 2018, 122, 14771-14780.	3.1	14
24	Random Nanofabrication-Enabled Physical Unclonable Function. Advanced Materials Technologies, 2021, 6, 2001073.	5.8	13
25	Symmetry-Assisted Spectral Line Shapes Manipulation in Dielectric Double-Fano Metasurfaces. Advanced Optical Materials, 2021, 9, 2001874.	7.3	12
26	Optical Near-Field Enhancement with Graphene Bowtie Antennas. Plasmonics, 2014, 9, 845-850.	3.4	8
27	Narrow Linewidth Distributed Bragg Reflectors Based on InGaN/GaN Laser. Micromachines, 2019, 10, 529.	2.9	8
28	Authentication of Optical Physical Unclonable Functions Based on Single-Pixel Detection. Physical Review Applied, 2021, 16, .	3.8	8
29	Giant plasmonically induced circular conversion dichroism in an anisotropic golden slit grating filled by a chiral medium. Physical Review B, 2019, 100, .	3.2	7
30	High-sensitivity nanostructured aluminium ultrathin film sensors with spectral response from ultraviolet to near-infrared. Physica Scripta, 2019, 94, 055504.	2.5	7
31	Analysis of field-emission from a diamond-metal-vacuum triple junction. Journal of Applied Physics, 2012, 112, 066102.	2.5	6
32	Complete Terahertz Polarization Control with Broadened Bandwidth via Dielectric Metasurfaces. Nanoscale Research Letters, 2021, 16, 157.	5.7	6
33	Highly-symmetrical plasmonic nanoantenna for fluorescence enhancement and polarization preservation of arbitrarily oriented fluorophore. Optical Materials Express, 2018, 8, 3770.	3.0	5
34	Nanoparticle loading effects on the broadband absorption for plasmonic-metal@semiconductor-microsphere photocatalyst. Catalysis Today, 2016, 278, 312-318.	4.4	4
35	Enhancing magnetic dipole emission in Eu-doped SrMg_3O_7 Tj ETQq1 1,0,784314,rgBT /Oe	3.2	4
36	Shot noise of low energy electron field emission due to Klein tunneling. Journal of Applied Physics, 2012, 112, .	2.5	3

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37	Spintronic terahertz emitter: Performance, manipulation, and applications. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 208705.	0.5	3
38	Empowering magnetic strong coupling and its application for nonlinear refractive index sensing. Nano Research, 2022, 15, 7604-7613.	10.4	3
39	Multisection vialess microstrip-line balun with backside aperture and floating patches. Microwave and Optical Technology Letters, 2007, 49, 253-254.	1.4	2
40	Interference induced periodic oscillation of convolutional-surface-plasmon resonance for a metal nanoparticle encapsulated by a dielectric microsphere. Journal of Optics (United Kingdom), 2016, 18, 075010.	2.2	1
41	Excess-noise suppression for a squeezed state propagating through random amplifying media via wave-front shaping. Physical Review A, 2021, 103, .	2.5	1
42	Electron over-barrier emission mechanism of single-layer graphene sheet. , 2013, , .		0
43	Control Enhancement of Dipole Emission Using Hybrid Metal-Dielectric Nanoantenna. , 2018, , .		0
44	Anisotropic Dielectric Metamaterials with Multipolar Mie Resonances for High Efficiency Terahertz Polarization Control. , 2018, , .		0
45	Manipulate the Dipole Emission Properties Using Highly Symmetrical Nanoantenna. , 2019, , .		0
46	Broadband terahertz quarter-wave plates via multipolar-interference-assisted all-dielectric metamaterials. , 2019, , .		0
47	Plasmonic-Dielectric Mushroom Nanoantenna for Fluorescence Enhancement. , 2018, , .		0
48	Enhanced Directional Fluorescence via Modehybridization in Metal-Dielectric Nanoantenna. , 2020, , .		0
49	Enabling Efficient Unidirectional Forward Scattering via Metal-dielectric Heterodimer. , 2021, , .		0
50	Enhanced Directional Fluorescence Spontaneous emission via Multipolar Interference in Metal-Dielectric Hybrid Nanoantenna. , 2021, , .		0