

Shuwen Zeng

List of Publications by Year in descending order

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71
papers

5,724
citations

159525

30
h-index

138417

58
g-index

72
all docs

72
docs citations

72
times ranked

8308
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomaterials enhanced surface plasmon resonance for biological and chemical sensing applications. <i>Chemical Society Reviews</i> , 2014, 43, 3426.	18.7	990
2	A Review on Functionalized Gold Nanoparticles for Biosensing Applications. <i>Plasmonics</i> , 2011, 6, 491-506.	1.8	649
3	New Generation Cadmium-Free Quantum Dots for Biophotonics and Nanomedicine. <i>Chemical Reviews</i> , 2016, 116, 12234-12327.	23.0	482
4	Graphene-MoS ₂ hybrid nanostructures enhanced surface plasmon resonance biosensors. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 801-810.	4.0	385
5	Nanocarbons for Biology and Medicine: Sensing, Imaging, and Drug Delivery. <i>Chemical Reviews</i> , 2019, 119, 9559-9656.	23.0	368
6	Sensitivity Enhancement of Transition Metal Dichalcogenides/Silicon Nanostructure-based Surface Plasmon Resonance Biosensor. <i>Scientific Reports</i> , 2016, 6, 28190.	1.6	299
7	Graphene-Gold Metasurface Architectures for Ultrasensitive Plasmonic Biosensing. <i>Advanced Materials</i> , 2015, 27, 6163-6169.	11.1	262
8	Size dependence of Au NP-enhanced surface plasmon resonance based on differential phase measurement. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 1128-1133.	4.0	157
9	Inorganic, Organic, and Perovskite Halides with Nanotechnology for High-Light Yield X- and γ -ray Scintillators. <i>Crystals</i> , 2019, 9, 88.	1.0	150
10	In Situ Recyclable Surface-Enhanced Raman Scattering-Based Detection of Multicomponent Pesticide Residues on Fruits and Vegetables by the Flower-like MoS ₂ @Ag Hybrid Substrate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14386-14399.	4.0	148
11	Sensitivity enhanced biosensor using graphene-based one-dimensional photonic crystal. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 424-428.	4.0	133
12	Metasurfaces for biomedical applications: imaging and sensing from a nanophotonics perspective. <i>Nanophotonics</i> , 2020, 10, 259-293.	2.9	118
13	A Review on MoS ₂ Properties, Synthesis, Sensing Applications and Challenges. <i>Crystals</i> , 2021, 11, 355.	1.0	114
14	A Light-Driven Therapy of Pancreatic Adenocarcinoma Using Gold Nanorods-Based Nanocarriers for Co-Delivery of Doxorubicin and siRNA. <i>Theranostics</i> , 2015, 5, 818-833.	4.6	103
15	Two-Dimensional Transition Metal Dichalcogenide Enhanced Phase-Sensitive Plasmonic Biosensors: Theoretical Insight. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6282-6289.	1.5	101
16	Excitation of surface electromagnetic waves in a graphene-based Bragg grating. <i>Scientific Reports</i> , 2012, 2, 737.	1.6	97
17	SERS-based ultrasensitive sensing platform: An insight into design and practical applications. <i>Coordination Chemistry Reviews</i> , 2017, 337, 1-33.	9.5	97
18	Phase-Change-Material-Based Low-Loss Visible-Frequency Hyperbolic Metamaterials for Ultrasensitive Label-Free Biosensing. <i>Advanced Optical Materials</i> , 2019, 7, 1900081.	3.6	74

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19	Sensitivity Enhancement of MoS ₂ Nanosheet based Surface Plasmon Resonance Biosensor. <i>Procedia Engineering</i> , 2016, 140, 134-139.	1.2	63
20	Hybrid Graphene/Gold Plasmonic Fiber-Optic Biosensor. <i>Advanced Materials Technologies</i> , 2017, 2, 1600185.	3.0	58
21	Biodegradable Polymer-Coated Multifunctional Graphene Quantum Dots for Light-Triggered Synergetic Therapy of Pancreatic Cancer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2768-2781.	4.0	58
22	Electrical Tuning of the SERS Enhancement by Precise Defect Density Control. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34091-34099.	4.0	52
23	Multifunctional Hyperbolic Nanogroove Metasurface for Submolecular Detection. <i>Small</i> , 2017, 13, 1700600.	5.2	46
24	Seed-mediated Plasmon-driven Regrowth of Silver Nanodecahedrons (NDs). <i>Plasmonics</i> , 2012, 7, 167-173.	1.8	45
25	Sensing and lasing applications of whispering gallery mode microresonators. <i>Opto-Electronic Advances</i> , 2018, 1, 18001501-18001510.	6.4	43
26	Microfluidic Whispering Gallery Mode Optical Sensors for Biological Applications. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000135.	4.4	38
27	Synthesis and defect engineering of molybdenum oxides and their SERS applications. <i>Nanoscale</i> , 2021, 13, 5620-5651.	2.8	38
28	Molybdenum Oxide/Tungsten Oxide Nano-heterojunction with Improved Surface-Enhanced Raman Scattering Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33345-33353.	4.0	37
29	Preparation of biofunctionalized quantum dots using microfluidic chips for bioimaging. <i>Analyst</i> , The, 2014, 139, 4681-4690.	1.7	33
30	Folic acid-conjugated organically modified silica nanoparticles for enhanced targeted delivery in cancer cells and tumor in vivo. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6081-6093.	2.9	33
31	Targeted Sub-Attomole Cancer Biomarker Detection Based on Phase Singularity 2D Nanomaterial-Enhanced Plasmonic Biosensor. <i>Nano-Micro Letters</i> , 2021, 13, 96.	14.4	30
32	Enhanced Biosensing Activity of Bimetallic Surface Plasmon Resonance Sensor. <i>Photonics</i> , 2019, 6, 108.	0.9	28
33	Optical Micro/Nanofiber-Based Localized Surface Plasmon Resonance Biosensors: Fiber Diameter Dependence. <i>Sensors</i> , 2018, 18, 3295.	2.1	27
34	Compact polarization beam splitter assisted by subwavelength grating in triple-waveguide directional coupler. <i>Applied Optics</i> , 2019, 58, 2264.	0.9	26
35	Fano Resonance Enhanced Surface Plasmon Resonance Sensors Operating in Near-Infrared. <i>Photonics</i> , 2018, 5, 23.	0.9	23
36	Microfluidic synthesis of cadmium sulfide nanoparticles and their application in bioimaging. <i>RSC Advances</i> , 2017, 7, 36819-36832.	1.7	22

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37	Recyclable SERS-Based Immunoassay Guided by Photocatalytic Performance of Fe ₃ O ₄ @TiO ₂ @Au Nanocomposites. <i>Biosensors</i> , 2020, 10, 25.	2.3	22
38	Planar nonlinear metasurface optics and their applications. <i>Reports on Progress in Physics</i> , 2020, 83, 126101.	8.1	22
39	Experimental and numerical investigation on hollow core photonic crystal fiber based bending sensor. <i>Optics Express</i> , 2019, 27, 30629.	1.7	22
40	Plasmonic Metasensors Based on 2D Hybrid Atomically Thin Perovskite Nanomaterials. <i>Nanomaterials</i> , 2020, 10, 1289.	1.9	18
41	Synthesis of symmetrical hexagonal-shape PbO nanosheets using gold nanoparticles. <i>Materials Letters</i> , 2012, 67, 74-77.	1.3	17
42	UV-light-assisted preparation of MoO ₃ /Ag NPs film and investigation on the SERS performance. <i>Journal of Materials Science</i> , 2020, 55, 8868-8880.	1.7	17
43	Nonlinear-mode-coupling-induced soliton crystal dynamics in optical microresonators. <i>Physical Review A</i> , 2021, 103, .	1.0	16
44	One-Pot Synthesis of Multi-Branch Gold Nanoparticles and Investigation of Their SERS Performance. <i>Biosensors</i> , 2018, 8, 113.	2.3	15
45	Electrical Tuning of MoO _x /Ag Hybrids and Investigation of their Surface-Enhanced Raman Scattering Performance. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000499.	1.2	14
46	Graphene-TMDs-Graphene Hybrid Plasmonic Metasurface for Enhanced Biosensing: A Theoretical Analysis. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1700563.	0.8	13
47	Study on the dual-Fano resonance generation and its potential for self-calibrated sensing. <i>Optics Express</i> , 2020, 28, 23703.	1.7	13
48	Optical and Photodetection Properties of ZnO Nanoparticles Recovered from Zn Dross. <i>Crystals</i> , 2021, 11, 6.	1.0	13
49	Highly Sensitive Plasmonic Waveguide Biosensor Based on Phase Singularity-Enhanced Goos-Hänchen Shift. <i>Biosensors</i> , 2022, 12, 457.	2.3	13
50	Microfluidic chip enabled one-step synthesis of biofunctionalized CuInS ₂ /ZnS quantum dots. <i>Lab on A Chip</i> , 2020, 20, 3001-3010.	3.1	9
51	Metasurfaces for biomedical applications: imaging and sensing from a nanophotonics perspective. , 2021, , 265-300.		8
52	Graphene Enhanced Surface Plasmon Resonance Fiber-Optic Biosensor. , 2016, , .		8
53	Nonlinear gas sensing based on third-harmonic generation in cascaded chalcogenide microfibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 300.	0.9	7
54	Light-Matter Interaction of Single Quantum Emitters with Dielectric Nanostructures. <i>Photonics</i> , 2018, 5, 14.	0.9	6

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55	Highly Sensitive Polarimetric Sensor Based on Fano Resonance for DNA Hybridization Detection. Plasmonics, 2020, 15, 769-781.	1.8	6
56	Simultaneous Mid-Infrared Gas Sensing and Upconversion Based on Third Harmonic Generation in Cascaded Waveguides. IEEE Photonics Journal, 2020, 12, 1-12.	1.0	6
57	Multi-layer MoS ₂ -Based Plasmonic Gold Nanowires at Near-Perfect Absorption for Energy Harvesting. Plasmonics, 2021, 16, 1613-1621.	1.8	6
58	Fano Resonance Based on Long Range Surface Phonon Resonance in the Mid-Infrared Region. IEEE Photonics Journal, 2019, 11, 1-8.	1.0	4
59	SPR Biosensors. , 2017, , 123-145.		4
60	Recent Advances in Surface Plasmon Resonance for Biosensing Applications and Future Prospects. , 2021, , 21-48.		4
61	FWHM and Sensitivity Study of Bimetallic SPR Sensor Chip. , 2019, , .		3
62	Monolayer WS ₂ Enhanced High Sensitivity Plasmonic Biosensor based on Phase Modulation. , 2017, , .		2
63	Design of Sub wavelength-Grating-Coupled Fano Resonance Sensor in Mid-infrared. Plasmonics, 2021, 16, 463-469.	1.8	2
64	Sensitivity improved surface plasmon resonance biosensor for cancer biomarker detection based on 2D perovskite-based metasurfaces (Conference Presentation). , 2019, , .		2
65	2D Perovskite-Based Metasurfaces for Enhanced Plasmonic Sensing. , 2019, , .		2
66	SPR Biosensors. , 2015, , 1-19.		1
67	Highly-Enhanced Plasmonic Biosensors based on Atomically Thin Two-Dimensional Chalcogenide Phase-change Materials. , 2020, , .		1
68	Optimized sandwiched surface plasmon resonance enhanced biosensor for multiplex biomarker detection. , 2012, , .		0
69	Sensitivity improved surface plasmon resonance sensor based on graphene and gold nanorods. , 2013, , .		0
70	Fundamental Phase-matched Second Harmonic Generation from Mid-infrared to Near-infrared. , 2019, , .		0
71	Ultrasensitive and Label-free Plasmonic Detection based on Singular Phase Signal Changes. , 2020, , .		0