

Peng Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

3,563
citations

304602

22
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302012

39
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41
all docs

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docs citations

41
times ranked

6186
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-Free Spectroscopic SARS-CoV-2 Detection on Versatile Nanoimprinted Substrates. <i>Nano Letters</i> , 2022, 22, 3620-3627.	4.5	46
2	Plasmon-enhanced near-infrared fluorescence detection of traumatic brain injury biomarker glial fibrillary acidic protein in blood plasma. <i>Analytica Chimica Acta</i> , 2022, 1203, 339721.	2.6	12
3	A Dual-Modal Single-Antibody Plasmonic Spectro-immunoassay for Detection of Small Molecules. <i>Small</i> , 2022, 18, e2200090.	5.2	14
4	Molecular Radiative Energy Shifts under Strong Oscillating Fields. <i>Small</i> , 2021, 17, 2007244.	5.2	2
5	A Programmable DNA-Silicification-Based Nanocavity for Single-Molecule Plasmonic Sensing. <i>Advanced Materials</i> , 2021, 33, e2005133.	11.1	27
6	A "Hot Spot"-Enhanced paper lateral flow assay for ultrasensitive detection of traumatic brain injury biomarker S-100 β in blood plasma. <i>Biosensors and Bioelectronics</i> , 2021, 177, 112967.	5.3	34
7	Plexcitonic Quasi-Bound States in the Continuum. <i>Small</i> , 2021, 17, 2102596.	5.2	6
8	Earth-Abundant Fe and Ni Dually Doped Co ₂ P for Superior Oxygen Evolution Reactivity and as a Bifunctional Electrocatalyst toward Renewable Energy-Powered Overall Alkaline Water Splitting. <i>ACS Applied Energy Materials</i> , 2021, 4, 9969-9981.	2.5	18
9	Optical properties of symmetry-breaking tetrahedral nanoparticles. <i>Nanoscale</i> , 2020, 12, 832-842.	2.8	13
10	Chemical interaction and enhanced interfacial ion transport in a ceramic nanofiber-polymer composite electrolyte for all-solid-state lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7261-7272.	5.2	85
11	Mouse pulmonary dose- and time course-responses induced by exposure to nitrogen-doped multi-walled carbon nanotubes. <i>Inhalation Toxicology</i> , 2020, 32, 24-38.	0.8	6
12	Tunable Visible-Light Surface Plasmon Resonance of Molybdenum Oxide Thin Films Fabricated by E-beam Evaporation. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2389-2395.	2.0	27
13	Converting plasmonic light scattering to confined light absorption and creating plexcitons by coupling a gold nano-pyramid array onto a silica-gold film. <i>Nanoscale Horizons</i> , 2019, 4, 516-525.	4.1	29
14	Origin of strong and narrow localized surface plasmon resonance of copper nanocubes. <i>Nano Research</i> , 2019, 12, 63-68.	5.8	64
15	Metal-organic framework coated titanium dioxide nanorod array-polymer heterojunction photoanode for solar water-splitting. <i>Nano Research</i> , 2019, 12, 643-650.	5.8	73
16	Tailoring Optical Properties of a Large-Area Plasmonic Gold Nanoring Array Pattern. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13443-13449.	1.5	22
17	Elucidating the Growth Mechanism of Plasmonic Gold Nanostars with Tunable Optical and Photothermal Properties. <i>Inorganic Chemistry</i> , 2018, 57, 8599-8607.	1.9	73
18	Detection of nitrite with a surface-enhanced Raman scattering sensor based on silver nanopyramid array. <i>Analytica Chimica Acta</i> , 2018, 1040, 158-165.	2.6	50

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19	Effects of Defects on Photocatalytic Activity of Hydrogen-Treated Titanium Oxide Nanobelts. ACS Catalysis, 2017, 7, 1742-1748.	5.5	173
20	Lung bioactivity of vapor grown carbon nanofibers. NanoImpact, 2017, 6, 1-10.	2.4	5
21	Detection of mercury(II) with a surface-enhanced Raman scattering sensor based on functionalized gold nanoparticles. Materials Research Express, 2017, 4, 055017.	0.8	12
22	Effect of surface functionalizations of multi-walled carbon nanotubes on neoplastic transformation potential in primary human lung epithelial cells. Nanotoxicology, 2017, 11, 613-624.	1.6	21
23	Paper-Based Surface-Enhanced Raman Scattering Lateral Flow Strip for Detection of Neuron-Specific Enolase in Blood Plasma. Analytical Chemistry, 2017, 89, 10104-10110.	3.2	134
24	Fluorescence and Sensing Applications of Graphene Oxide and Graphene Quantum Dots: A Review. Chemistry - an Asian Journal, 2017, 12, 2343-2353.	1.7	265
25	Fabrication of hexagonally patterned flower-like silver particle arrays as surface-enhanced Raman scattering substrates. Nanotechnology, 2016, 27, 325303.	1.3	7
26	Silver-Nanorod Bundles: A Hierarchically Ordered Array of Silver-Nanorod Bundles for Surface-Enhanced Raman Scattering Detection of Phenolic Pollutants (Adv. Mater. 24/2016). Advanced Materials, 2016, 28, 4870-4870.	11.1	8
27	An ordered array of hierarchical spheres for surface-enhanced Raman scattering detection of traces of pesticide. Nanotechnology, 2016, 27, 384001.	1.3	21
28	Investigation of the plasmonic effect in air-processed PbS/CdS core-shell quantum dot based solar cells. Journal of Materials Chemistry A, 2016, 4, 13071-13080.	5.2	18
29	A Hierarchically Ordered Array of Silver Nanorod Bundles for Surface-Enhanced Raman Scattering Detection of Phenolic Pollutants. Advanced Materials, 2016, 28, 4871-4876.	11.1	333
30	Distinguishing surface effects of gold nanoparticles from plasmonic effect on photoelectrochemical water splitting by hematite. Journal of Materials Research, 2016, 31, 1608-1615.	1.2	25
31	A Surface-Enhanced Raman Scattering Sensor Integrated with Battery-Controlled Fluidic Device for Capture and Detection of Trace Small Molecules. Scientific Reports, 2015, 5, 12865.	1.6	19
32	A gold nanohole array based surface-enhanced Raman scattering biosensor for detection of silver and mercury in human saliva. Nanoscale, 2015, 7, 11005-11012.	2.8	98
33	Tailoring plasmonic properties of gold nanohole arrays for surface-enhanced Raman scattering. Physical Chemistry Chemical Physics, 2015, 17, 21211-21219.	1.3	69
34	Controlling Plasmon-Induced Resonance Energy Transfer and Hot Electron Injection Processes in Metal@TiO ₂ Core-Shell Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 16239-16244.	1.5	219
35	A gold@silica core-shell nanoparticle-based surface-enhanced Raman scattering biosensor for label-free glucose detection. Analytica Chimica Acta, 2014, 811, 76-80.	2.6	85
36	Solar Hydrogen Generation by a CdS-Au-TiO ₂ Sandwich Nanorod Array Enhanced with Au Nanoparticle as Electron Relay and Plasmonic Photosensitizer. Journal of the American Chemical Society, 2014, 136, 8438-8449.	6.6	533

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37	Plasmon-induced photonic and energy-transfer enhancement of solar water splitting by a hematite nanorod array. <i>Nature Communications</i> , 2013, 4, 2651.	5.8	427
38	Effect of sputtered Mo interlayers on Si (100) substrates for the deposition of diamond film by hot filament chemical vapor deposition. <i>Surface and Coatings Technology</i> , 2013, 232, 456-463.	2.2	16
39	Ag@Cu ₂ O Core-Shell Nanoparticles as Visible-Light Plasmonic Photocatalysts. <i>ACS Catalysis</i> , 2013, 3, 47-51.	5.5	471