Peng Zheng

List of Publications by Year
in descending order

39 papers	3,563 citations	304602 22 h-index	302012 39 g-index
41 all docs	41 docs citations	41 times ranked	6186 citing authors

#	Article	IF	Citations
1	Solar Hydrogen Generation by a CdS-Au-TiO₂ 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
2	Ag@Cu₂O Core-Shell Nanoparticles as Visible-Light Plasmonic Photocatalysts. ACS Catalysis, 2013, 3, 47-51.	5.5	471
3	Plasmon-induced photonic and energy-transfer enhancement of solar water splitting by a hematite nanorod array. Nature Communications, 2013, 4, 2651.	5.8	427
4	A Hierarchically Ordered Array of Silverâ€Nanorod Bundles for Surfaceâ€Enhanced Raman Scattering Detection of Phenolic Pollutants. Advanced Materials, 2016, 28, 4871-4876.	11.1	333
5	Fluorescence and Sensing Applications of Graphene Oxide and Graphene Quantum Dots: A Review. Chemistry - an Asian Journal, 2017, 12, 2343-2353.	1.7	265
6	Controlling Plasmon-Induced Resonance Energy Transfer and Hot Electron Injection Processes in Metal@TiO₂ Coreâ€“Shell Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 16239-16244.	1.5	219
7	Effects of Defects on Photocatalytic Activity of Hydrogen-Treated Titanium Oxide Nanobelts. ACS Catalysis, 2017, 7, 1742-1748.	5.5	173
8	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
9	A gold nanohole array based surface-enhanced Raman scattering biosensor for detection of silver(<scp>i</scp>) and mercury(<scp>ii</scp>) in human saliva. Nanoscale, 2015, 7, 11005-11012.	2.8	98
10	A gold@silica coreâ€“shell nanoparticle-based surface-enhanced Raman scattering biosensor for label-free glucose detection. Analytica Chimica Acta, 2014, 811, 76-80.	2.6	85
11	Chemical interaction and enhanced interfacial ion transport in a ceramic nanofiberâ€“polymer composite electrolyte for all-solid-state lithium metal batteries. Journal of Materials Chemistry A, 2020, 8, 7261-7272.	5.2	85
12	Elucidating the Growth Mechanism of Plasmonic Gold Nanostars with Tunable Optical and Photothermal Properties. Inorganic Chemistry, 2018, 57, 8599-8607.	1.9	73
13	Metalâ€“organic framework coated titanium dioxide nanorod array pâ€“n heterojunction photoanode for solar water-splitting. Nano Research, 2019, 12, 643-650.	5.8	73
14	Tailoring plasmonic properties of gold nanohole arrays for surface-enhanced Raman scattering. Physical Chemistry Chemical Physics, 2015, 17, 21211-21219.	1.3	69
15	Origin of strong and narrow localized surface plasmon resonance of copper nanocubes. Nano Research, 2019, 12, 63-68.	5.8	64
16	Detection of nitrite with a surface-enhanced Raman scattering sensor based on silver nanopyramid array. Analytica Chimica Acta, 2018, 1040, 158-165.	2.6	50
17	Label-Free Spectroscopic SARS-CoV-2 Detection on Versatile Nanoimprinted Substrates. Nano Letters, 2022, 22, 3620-3627.	4.5	46
18	A â€œhot Spotâ€•Enhanced paper lateral flow assay for ultrasensitive detection of traumatic brain injury biomarker S-100Î² in blood plasma. Biosensors and Bioelectronics, 2021, 177, 112967.	5.3	34

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19	Converting plasmonic light scattering to confined light absorption and creating plexcitons by coupling a gold nano-pyramid array onto a silicaâ€“gold film. Nanoscale Horizons, 2019, 4, 516-525.	4.1	29
20	Tunable Visible-Light Surface Plasmon Resonance of Molybdenum Oxide Thin Films Fabricated by E-beam Evaporation. ACS Applied Electronic Materials, 2019, 1, 2389-2395.	2.0	27
21	A Programmable DNAâ€Silicificationâ€Based Nanocavity for Singleâ€Molecule Plasmonic Sensing. Advanced Materials, 2021, 33, e2005133.	11.1	27
22	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
23	Tailoring Optical Properties of a Large-Area Plasmonic Gold Nanoring Array Pattern. Journal of Physical Chemistry C, 2018, 122, 13443-13449.	1.5	22
24	An ordered array of hierarchical spheres for surface-enhanced Raman scattering detection of traces of pesticide. Nanotechnology, 2016, 27, 384001.	1.3	21
25	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
26	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
27	Investigation of the plasmonic effect in air-processed PbS/CdS coreâ€“shell quantum dot based solar cells. Journal of Materials Chemistry A, 2016, 4, 13071-13080.	5.2	18
28	Earth-Abundant Fe and Ni Dually Doped Co₂P for Superior Oxygen Evolution Reactivity and as a Bifunctional Electrocatalyst toward Renewable Energy-Powered Overall Alkaline Water Splitting. ACS Applied Energy Materials, 2021, 4, 9969-9981.	2.5	18
29	Effect of sputtered Mo interlayers on Si (100) substrates for the deposition of diamond film by hot filament chemical vapor deposition. Surface and Coatings Technology, 2013, 232, 456-463.	2.2	16
30	A Dualâ€Modal Singleâ€Antibody Plasmonic Spectroâ€Immunoassay for Detection of Small Molecules. Small, 2022, 18, e2200090.	5.2	14
31	Optical properties of symmetry-breaking tetrahedral nanoparticles. Nanoscale, 2020, 12, 832-842.	2.8	13
32	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
33	Plasmon-enhanced near-infrared fluorescence detection of traumatic brain injury biomarker glial fibrillary acidic protein in blood plasma. Analytica Chimica Acta, 2022, 1203, 339721.	2.6	12
34	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
35	Fabrication of hexagonally patterned flower-like silver particle arrays as surface-enhanced Raman scattering substrates. Nanotechnology, 2016, 27, 325303.	1.3	7
36	Mouse pulmonary dose- and time course-responses induced by exposure to nitrogen-doped multi-walled carbon nanotubes. Inhalation Toxicology, 2020, 32, 24-38.	0.8	6

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37	Plexcitonic Quasiâ€Bound States in the Continuum. Small, 2021, 17, 2102596.	5.2	6
38	Lung bioactivity of vapor grown carbon nanofibers. NanoImpact, 2017, 6, 1-10.	2.4	5
39	Molecular Radiative Energy Shifts under Strong Oscillating Fields. Small, 2021, 17, 2007244.	5.2	2