

Zheng Liu

List of Publications by Year in descending order

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31
papers

2,105
citations

394421

19
h-index

477307

29
g-index

32
all docs

32
docs citations

32
times ranked

3575
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast Charge Separation and Long-Lived Charge Separated State in Photocatalytic CdS@Pt Nanorod Heterostructures. <i>Journal of the American Chemical Society</i> , 2012, 134, 10337-10340.	13.7	459
2	DNA-based nanoparticle tension sensors reveal that T-cell receptors transmit defined pN forces to their antigens for enhanced fidelity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5610-5615.	7.1	256
3	Revealing the molecular structure of single-molecule junctions in different conductance states by fishing-mode tip-enhanced Raman spectroscopy. <i>Nature Communications</i> , 2011, 2, 305.	12.8	227
4	Structurally Defined Nanoscale Sheets from Self-Assembly of Collagen-Mimetic Peptides. <i>Journal of the American Chemical Society</i> , 2014, 136, 4300-4308.	13.7	126
5	Nanoparticle Tension Probes Patterned at the Nanoscale: Impact of Integrin Clustering on Force Transmission. <i>Nano Letters</i> , 2014, 14, 5539-5546.	9.1	124
6	Nanoscale optomechanical actuators for controlling mechanotransduction in living cells. <i>Nature Methods</i> , 2016, 13, 143-146.	19.0	113
7	Synthesis of Au@Pd core-shell nanoparticles with controllable size and their application in surface-enhanced Raman spectroscopy. <i>Chemical Physics Letters</i> , 2005, 408, 354-359.	2.6	110
8	Beyond Band Alignment: Hole Localization Driven Formation of Three Spatially Separated Long-Lived Exciton States in CdSe/CdS Nanorods. <i>ACS Nano</i> , 2013, 7, 7173-7185.	14.6	95
9	Tip-enhanced Raman spectroscopy for investigating adsorbed species on a single-crystal surface using electrochemically prepared Au tips. <i>Applied Physics Letters</i> , 2007, 91, 101105.	3.3	87
10	Interfacial Charge Separation and Recombination in InP and Quasi-Type II InP/CdS Core/Shell Quantum Dot-Molecular Acceptor Complexes. <i>Journal of Physical Chemistry A</i> , 2013, 117, 7561-7570.	2.5	76
11	Electrochemically Roughened Palladium Electrodes for Surface-Enhanced Raman Spectroscopy: Methodology, Mechanism, and Application. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1770-1775.	3.1	47
12	A General Approach for Generating Fluorescent Probes to Visualize Piconewton Forces at the Cell Surface. <i>Journal of the American Chemical Society</i> , 2016, 138, 2901-2904.	13.7	44
13	Tip-enhanced Raman spectroscopy for investigating adsorbed nonresonant molecules on single-crystal surfaces: tip regeneration, probe molecule, and enhancement effect. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1400-1406.	2.5	43
14	Revealing Intermolecular Interaction and Surface Restructuring of an Aromatic Thiol Assembling on Au(111) by Tip-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2016, 88, 915-921.	6.5	40
15	A reversible shearing DNA probe for visualizing mechanically strong receptors in living cells. <i>Nature Cell Biology</i> , 2021, 23, 642-651.	10.3	35
16	Exciton Annihilation and Dissociation Dynamics in Group II-V Cd ₃ P ₂ Quantum Dots. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6362-6372.	2.5	32
17	Scrolled Polymer Single Crystals Driven by Unbalanced Surface Stresses: Rational Design and Experimental Evidence. <i>Macromolecules</i> , 2011, 44, 7758-7766.	4.8	30
18	Localized Nanoscale Heating Leads to Ultrafast Hydrogel Volume-Phase Transition. <i>ACS Nano</i> , 2019, 13, 515-525.	14.6	28

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19	Orientation Change of Adsorbed Pyrazine on Roughened Rhodium Electrodes as Probed by Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17597-17602.	2.6	20
20	Bulk Transport and Interfacial Transfer Dynamics of Photogenerated Carriers in CdSe Quantum Dot Solid Electrodes. <i>Nano Letters</i> , 2013, 13, 3678-3683.	9.1	19
21	Unraveling the Exciton Quenching Mechanism of Quantum Dots on Antimony-Doped SnO ₂ Films by Transient Absorption and Single Dot Fluorescence Spectroscopy. <i>ACS Nano</i> , 2013, 7, 1599-1608.	14.6	17
22	Light-Responsive Polymer Particles as Force Clamps for the Mechanical Unfolding of Target Molecules. <i>Nano Letters</i> , 2018, 18, 2630-2636.	9.1	16
23	The Golgi microtubules regulate single cell durotaxis. <i>EMBO Reports</i> , 2021, 22, e51094.	4.5	14
24	Probing Spatially Dependent Photoinduced Charge Transfer Dynamics to TiO ₂ Nanoparticles Using Single Quantum Dot Modified Atomic Force Microscopy Tips. <i>Nano Letters</i> , 2013, 13, 5563-5569.	9.1	13
25	Enhanced Raman Scattering by Polystyrene Microspheres and Application for Detecting Molecules Adsorbed on Au Single Crystal Surface. <i>Acta Physico-chimica Sinica</i> , 2008, 24, 1941-1945.	0.6	9
26	Surface bonding on silicon surfaces as probed by tip-enhanced Raman spectroscopy. <i>Science China Chemistry</i> , 2010, 53, 426-431.	8.2	8
27	High-Resolution Imaging of Electric Field Enhancement and Energy-Transfer Quenching by a Single Silver Nanowire Using QD-Modified AFM Tips. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2284-2291.	4.6	8
28	Exploring Integrin-Mediated Force Transmission during Confined Cell Migration by DNA-Based Tension Probes. <i>Analytical Chemistry</i> , 2022, 94, 4570-4575.	6.5	5
29	Electromagnetic Coupling Effect for Surface-enhanced Raman Spectroscopy and Tip-enhanced Raman Spectroscopy. , 2010, , .		1
30	Fishing-Mode Tip-enhanced Raman Spectroscopy (FM-TERS) for Studying Single-Molecule Junctions. , 2010, , .		1
31	Fed-Batch Cultivation and Adding Supplements to Increase Yield of β -1,3-1,4-Glucanase by Genetically Engineered <i>Escherichia coli</i> . <i>Catalysts</i> , 2021, 11, 269.	3.5	1