Zheng Liu

List of Publications by Year
in descending order

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	Exploring Integrin-Mediated Force Transmission during Confined Cell Migration by DNA-Based Tension Probes. Analytical Chemistry, 2022, 94, 4570-4575.	6.5	5
2	The Golgi microtubules regulate single cell durotaxis. EMBO Reports, 2021, 22, e51094.	4.5	14
3	Fed-Batch Cultivation and Adding Supplements to Increase Yield of Î²-1,3-1,4-Glucanase by Genetically Engineered Escherichia coli. Catalysts, 2021, 11, 269.	3.5	1
4	A reversible shearing DNA probe for visualizing mechanically strong receptors in living cells. Nature Cell Biology, 2021, 23, 642-651.	10.3	35
5	Localized Nanoscale Heating Leads to Ultrafast Hydrogel Volume-Phase Transition. ACS Nano, 2019, 13, 515-525.	14.6	28
6	Light-Responsive Polymer Particles as Force Clamps for the Mechanical Unfolding of Target Molecules. Nano Letters, 2018, 18, 2630-2636.	9.1	16
7	DNA-based nanoparticle tension sensors reveal that T-cell receptors transmit defined pN forces to their antigens for enhanced fidelity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5610-5615.	7.1	256
8	Revealing Intermolecular Interaction and Surface Restructuring of an Aromatic Thiol Assembling on Au(111) by Tip-Enhanced Raman Spectroscopy. Analytical Chemistry, 2016, 88, 915-921.	6.5	40
9	Nanoscale optomechanical actuators for controlling mechanotransduction in living cells. Nature Methods, 2016, 13, 143-146.	19.0	113
10	A General Approach for Generating Fluorescent Probes to Visualize Piconewton Forces at the Cell Surface. Journal of the American Chemical Society, 2016, 138, 2901-2904.	13.7	44
11	Structurally Defined Nanoscale Sheets from Self-Assembly of Collagen-Mimetic Peptides. Journal of the American Chemical Society, 2014, 136, 4300-4308.	13.7	126
12	Nanoparticle Tension Probes Patterned at the Nanoscale: Impact of Integrin Clustering on Force Transmission. Nano Letters, 2014, 14, 5539-5546.	9.1	124
13	High-Resolution Imaging of Electric Field Enhancement and Energy-Transfer Quenching by a Single Silver Nanowire Using QD-Modified AFM Tips. Journal of Physical Chemistry Letters, 2013, 4, 2284-2291.	4.6	8
14	Bulk Transport and Interfacial Transfer Dynamics of Photogenerated Carriers in CdSe Quantum Dot Solid Electrodes. Nano Letters, 2013, 13, 3678-3683.	9.1	19
15	Beyond Band Alignment: Hole Localization Driven Formation of Three Spatially Separated Long-Lived Exciton States in CdSe/CdS Nanorods. ACS Nano, 2013, 7, 7173-7185.	14.6	95
16	Unraveling the Exciton Quenching Mechanism of Quantum Dots on Antimony-Doped SnO2 Films by Transient Absorption and Single Dot Fluorescence Spectroscopy. ACS Nano, 2013, 7, 1599-1608.	14.6	17
17	Probing Spatially Dependent Photoinduced Charge Transfer Dynamics to TiO₂ Nanoparticles Using Single Quantum Dot Modified Atomic Force Microscopy Tips. Nano Letters, 2013, 13, 5563-5569.	9.1	13
18	Exciton Annihilation and Dissociation Dynamics in Group IIâ€“V Cd₃P₂ Quantum Dots. Journal of Physical Chemistry A, 2013, 117, 6362-6372.	2.5	32

#	Article	IF	Citations
19	Interfacial Charge Separation and Recombination in InP and Quasi-Type II InP/CdS Core/Shell Quantum Dot-Molecular Acceptor Complexes. Journal of Physical Chemistry A, 2013, 117, 7561-7570.	2.5	76
20	Ultrafast Charge Separation and Long-Lived Charge Separated State in Photocatalytic CdSâ€“Pt Nanorod Heterostructures. Journal of the American Chemical Society, 2012, 134, 10337-10340.	13.7	459
21	Revealing the molecular structure of single-molecule junctions in different conductance states by fishing-mode tip-enhanced Raman spectroscopy. Nature Communications, 2011, 2, 305.	12.8	227
22	Scrolled Polymer Single Crystals Driven by Unbalanced Surface Stresses: Rational Design and Experimental Evidence. Macromolecules, 2011, 44, 7758-7766.	4.8	30
23	Surface bonding on silicon surfaces as probed by tip-enhanced Raman spectroscopy. Science China Chemistry, 2010, 53, 426-431.	8.2	8
24	Electromagnetic Coupling Effect for Surface-enhanced Raman Spectroscopy and Tip-enhanced Raman Spectroscopy. , 2010, , .		1
25	Fishing-Mode Tip-enhanced Raman Spectroscopy (FM-TERS) for Studying Single-Molecule Junctions. , 2010, , .		1
26	Tipâ€enhanced Raman spectroscopy for investigating adsorbed nonresonant molecules on singleâ€crystal surfaces: tip regeneration, probe molecule, and enhancement effect. Journal of Raman Spectroscopy, 2009, 40, 1400-1406.	2.5	43
27	Enhanced Raman Scattering by Polystyrene Microspheres and Application for Detecting Molecules Adsorbed on Au Single Crystal Surface. Acta Physico-chimica Sinica, 2008, 24, 1941-1945.	0.6	9
28	Tip-enhanced Raman spectroscopy for investigating adsorbed species on a single-crystal surface using electrochemically prepared Au tips. Applied Physics Letters, 2007, 91, 101105.	3.3	87
29	Electrochemically Roughened Palladium Electrodes for Surface-Enhanced Raman Spectroscopy:â€‰ Methodology, Mechanism, and Application. Journal of Physical Chemistry C, 2007, 111, 1770-1775.	3.1	47
30	Synthesis of Au@Pd coreâ€“shell nanoparticles with controllable size and their application in surface-enhanced Raman spectroscopy. Chemical Physics Letters, 2005, 408, 354-359.	2.6	110
31	Orientation Change of Adsorbed Pyrazine on Roughened Rhodium Electrodes as Probed by Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry B, 2005, 109, 17597-17602.	2.6	20