

Zhenpeng Qin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38
papers

1,399
citations

16
h-index

37
g-index

60
ext. papers

1,770
ext. citations

10.2
avg, IF

4.99
L-index

#	Paper	IF	Citations
38	Spatiotemporal Evolution of Temperature During Transient Heating of Nanoparticle Arrays. <i>Journal of Heat Transfer</i> , 2022 , 144,	1.8	1
37	Plasmonic LAMP: Improving the Detection Specificity and Sensitivity for SARS-CoV-2 by Plasmonic Sensing of Isothermally Amplified Nucleic Acids.. <i>Small</i> , 2022 , e2107832	11	2
36	Single pulse heating of a nanoparticle array for biological applications.. <i>Nanoscale Advances</i> , 2022 , 4, 2090-2097	5.1	0
35	Digital plasmonic nanobubble detection for rapid and ultrasensitive virus diagnostics.. <i>Nature Communications</i> , 2022 , 13, 1687	17.4	0
34	Brain Targeting, Antioxidant Polymeric Nanoparticles for Stroke Drug Delivery and Therapy.. <i>Small</i> , 2022 , e2107126	11	3
33	Plasmonic LAMP: Improving the Detection Specificity and Sensitivity for SARS-CoV-2 by Plasmonic Sensing of Isothermally Amplified Nucleic Acids (Small 12/2022). <i>Small</i> , 2022 , 18, 2270059	11	
32	Toward dynamic, anisotropic, high-resolution, and functional measurement in the brain extracellular space.. <i>Neurophotonics</i> , 2022 , 9, 032210	3.9	0
31	Computational Investigation of Protein Photoinactivation by Molecular Hyperthermia. <i>Journal of Biomechanical Engineering</i> , 2021 , 143,	2.1	2
30	Nanotransducers for Wireless Neuromodulation. <i>Matter</i> , 2021 , 4, 1484-1510	12.7	3
29	Single-Particle Counting Based on Digital Plasmonic Nanobubble Detection for Rapid and Ultrasensitive Diagnostics 2021 ,		2
28	Ultrasensitive and Highly Specific Lateral Flow Assays for Point-of-Care Diagnosis. <i>ACS Nano</i> , 2021 , 15, 3593-3611	16.7	73
27	Reversibly Modulating the Blood-Brain Barrier by Laser Stimulation of Molecular-Targeted Nanoparticles. <i>Nano Letters</i> , 2021 , 21, 9805-9815	11.5	7
26	Near-Infrared Light Triggered-Release in Deep Brain Regions Using Ultra-photosensitive Nanovesicles. <i>Angewandte Chemie</i> , 2020 , 132, 8686-8693	3.6	1
25	Near-Infrared Light Triggered-Release in Deep Brain Regions Using Ultra-photosensitive Nanovesicles. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8608-8615	16.4	17
24	Signal amplification and quantification on lateral flow assays by laser excitation of plasmonic nanomaterials. <i>Theranostics</i> , 2020 , 10, 4359-4373	12.1	36
23	Non-Arrhenius Reaction-Diffusion Kinetics for Protein Inactivation over a Large Temperature Range. <i>ACS Nano</i> , 2019 , 13, 8669-8679	16.7	6
22	Transient Photoinactivation of Cell Membrane Protein Activity without Genetic Modification by Molecular Hyperthermia. <i>ACS Nano</i> , 2019 , 13, 12487-12499	16.7	8

21	Rock the nucleus: significantly enhanced nuclear membrane permeability and gene transfection by plasmonic nanobubble induced nanomechanical transduction. <i>Chemical Communications</i> , 2018 , 54, 2479-2482	5.8	13
20	Site-Selective Nucleation and Size Control of Gold Nanoparticle Photothermal Antennae on the Pore Structures of a Virus. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17226-17233	16.4	20
19	Ultrafast Pulsed Laser Induced Nanocrystal Transformation in Colloidal Plasmonic Vesicles. <i>Advanced Optical Materials</i> , 2018 , 6, 1800726	8.1	7
18	Ultrafast Near-Infrared Light-triggered Intracellular Uncaging to Probe Cell Signaling. <i>Advanced Functional Materials</i> , 2017 , 27, 1605778	15.6	22
17	Tuning the Gold Nanoparticle Colorimetric Assay by Nanoparticle Size, Concentration, and Size Combinations for Oligonucleotide Detection. <i>ACS Sensors</i> , 2017 , 2, 1627-1636	9.2	15
16	Understanding the Collective Optical Properties of Complex Plasmonic Vesicles. <i>Advanced Optical Materials</i> , 2017 , 5, 1700403	8.1	10
15	Molecular Hyperthermia: Spatiotemporal Protein Unfolding and Inactivation by Nanosecond Plasmonic Heating. <i>Small</i> , 2017 , 13, 1700841	11	23
14	Gold Nanorod Induced Warming of Embryos from the Cryogenic State Enhances Viability. <i>ACS Nano</i> , 2017 , 11, 7869-7878	16.7	66
13	Thermal Contrast Amplification Reader Yielding 8-Fold Analytical Improvement for Disease Detection with Lateral Flow Assays. <i>Analytical Chemistry</i> , 2016 , 88, 11774-11782	7.8	61
12	Quantitative Comparison of Photothermal Heat Generation between Gold Nanospheres and Nanorods. <i>Scientific Reports</i> , 2016 , 6, 29836	4.9	95
11	Membrane-targeting approaches for enhanced cancer cell destruction with irreversible electroporation. <i>Annals of Biomedical Engineering</i> , 2014 , 42, 193-204	4.7	24
10	Correlated parameter fit of arrhenius model for thermal denaturation of proteins and cells. <i>Annals of Biomedical Engineering</i> , 2014 , 42, 2392-404	4.7	40
9	Multisite validation of cryptococcal antigen lateral flow assay and quantification by laser thermal contrast. <i>Emerging Infectious Diseases</i> , 2014 , 20, 45-53	10.2	193
8	Irreversible electroporation: an in vivo study with dorsal skin fold chamber. <i>Annals of Biomedical Engineering</i> , 2013 , 41, 619-29	4.7	35
7	Thermophysical and biological responses of gold nanoparticle laser heating. <i>Chemical Society Reviews</i> , 2012 , 41, 1191-217	58.5	408
6	Significantly Improved Analytical Sensitivity of Lateral Flow Immunoassays by Using Thermal Contrast. <i>Angewandte Chemie</i> , 2012 , 124, 4434-4437	3.6	15
5	Significantly improved analytical sensitivity of lateral flow immunoassays by using thermal contrast. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4358-61	16.4	122
4	An In Vitro Study on Adjuvant Enhanced Irreversible Electroporation 2012 ,		3

- 3 Nanoparticle heating: nanoscale to bulk effects of electromagnetically heated iron oxide and gold for biomedical applications **2011**, 1
- 2 Effects of particle's off-axis position, shape, orientation and entry position on resistance changes of micro Coulter counting devices. *Measurement Science and Technology*, **2011**, 22, 045804 2 60
- 1 One Dimensional Experimental Setup to Study the Heating of Nanoparticle Laden Systems **2010**, 3