

# Zhenpeng Qin

## List of Publications by Citations

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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	Thermophysical and biological responses of gold nanoparticle laser heating. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 1191-217	58.5	408
37	Multisite validation of cryptococcal antigen lateral flow assay and quantification by laser thermal contrast. <i>Emerging Infectious Diseases</i> , <b>2014</b> , 20, 45-53	10.2	193
36	Significantly improved analytical sensitivity of lateral flow immunoassays by using thermal contrast. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 4358-61	16.4	122
35	Quantitative Comparison of Photothermal Heat Generation between Gold Nanospheres and Nanorods. <i>Scientific Reports</i> , <b>2016</b> , 6, 29836	4.9	95
34	Ultrasensitive and Highly Specific Lateral Flow Assays for Point-of-Care Diagnosis. <i>ACS Nano</i> , <b>2021</b> , 15, 3593-3611	16.7	73
33	Gold Nanorod Induced Warming of Embryos from the Cryogenic State Enhances Viability. <i>ACS Nano</i> , <b>2017</b> , 11, 7869-7878	16.7	66
32	Thermal Contrast Amplification Reader Yielding 8-Fold Analytical Improvement for Disease Detection with Lateral Flow Assays. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 11774-11782	7.8	61
31	Effects of particle off-axis position, shape, orientation and entry position on resistance changes of micro Coulter counting devices. <i>Measurement Science and Technology</i> , <b>2011</b> , 22, 045804	2	60
30	Correlated parameter fit of arrhenius model for thermal denaturation of proteins and cells. <i>Annals of Biomedical Engineering</i> , <b>2014</b> , 42, 2392-404	4.7	40
29	Signal amplification and quantification on lateral flow assays by laser excitation of plasmonic nanomaterials. <i>Theranostics</i> , <b>2020</b> , 10, 4359-4373	12.1	36
28	Irreversible electroporation: an in vivo study with dorsal skin fold chamber. <i>Annals of Biomedical Engineering</i> , <b>2013</b> , 41, 619-29	4.7	35
27	Membrane-targeting approaches for enhanced cancer cell destruction with irreversible electroporation. <i>Annals of Biomedical Engineering</i> , <b>2014</b> , 42, 193-204	4.7	24
26	Molecular Hyperthermia: Spatiotemporal Protein Unfolding and Inactivation by Nanosecond Plasmonic Heating. <i>Small</i> , <b>2017</b> , 13, 1700841	11	23
25	Ultrafast Near-Infrared Light-triggered Intracellular Uncaging to Probe Cell Signaling. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605778	15.6	22
24	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> , <b>2018</b> , 140, 17226-17233	16.4	20
23	Near-Infrared Light Triggered-Release in Deep Brain Regions Using Ultra-photosensitive Nanovesicles. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 8608-8615	16.4	17
22	Tuning the Gold Nanoparticle Colorimetric Assay by Nanoparticle Size, Concentration, and Size Combinations for Oligonucleotide Detection. <i>ACS Sensors</i> , <b>2017</b> , 2, 1627-1636	9.2	15

21	Significantly Improved Analytical Sensitivity of Lateral Flow Immunoassays by Using Thermal Contrast. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 4434-4437	3.6	15
20	Rock the nucleus: significantly enhanced nuclear membrane permeability and gene transfection by plasmonic nanobubble induced nanomechanical transduction. <i>Chemical Communications</i> , <b>2018</b> , 54, 2479-2482	5.8	13
19	Understanding the Collective Optical Properties of Complex Plasmonic Vesicles. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700403	8.1	10
18	Transient Photoinactivation of Cell Membrane Protein Activity without Genetic Modification by Molecular Hyperthermia. <i>ACS Nano</i> , <b>2019</b> , 13, 12487-12499	16.7	8
17	Ultrafast Pulsed Laser Induced Nanocrystal Transformation in Colloidal Plasmonic Vesicles. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800726	8.1	7
16	Reversibly Modulating the Blood-Brain Barrier by Laser Stimulation of Molecular-Targeted Nanoparticles. <i>Nano Letters</i> , <b>2021</b> , 21, 9805-9815	11.5	7
15	Non-Arrhenius Reaction-Diffusion Kinetics for Protein Inactivation over a Large Temperature Range. <i>ACS Nano</i> , <b>2019</b> , 13, 8669-8679	16.7	6
14	One Dimensional Experimental Setup to Study the Heating of Nanoparticle Laden Systems <b>2010</b> ,		3
13	An In Vitro Study on Adjuvant Enhanced Irreversible Electroporation <b>2012</b> ,		3
12	Nanotransducers for Wireless Neuromodulation. <i>Matter</i> , <b>2021</b> , 4, 1484-1510	12.7	3
11	Brain Targeting, Antioxidant Polymeric Nanoparticles for Stroke Drug Delivery and Therapy.. <i>Small</i> , <b>2022</b> , e2107126	11	3
10	Plasmonic LAMP: Improving the Detection Specificity and Sensitivity for SARS-CoV-2 by Plasmonic Sensing of Isothermally Amplified Nucleic Acids.. <i>Small</i> , <b>2022</b> , e2107832	11	2
9	Computational Investigation of Protein Photoinactivation by Molecular Hyperthermia. <i>Journal of Biomechanical Engineering</i> , <b>2021</b> , 143,	2.1	2
8	Single-Particle Counting Based on Digital Plasmonic Nanobubble Detection for Rapid and Ultrasensitive Diagnostics <b>2021</b> ,		2
7	Near-Infrared Light Triggered-Release in Deep Brain Regions Using Ultra-photosensitive Nanovesicles. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 8686-8693	3.6	1
6	Nanoparticle heating: nanoscale to bulk effects of electromagnetically heated iron oxide and gold for biomedical applications <b>2011</b> ,		1
5	Spatiotemporal Evolution of Temperature During Transient Heating of Nanoparticle Arrays. <i>Journal of Heat Transfer</i> , <b>2022</b> , 144,	1.8	1
4	Single pulse heating of a nanoparticle array for biological applications.. <i>Nanoscale Advances</i> , <b>2022</b> , 4, 2090-2097	5.1	0

- 3 Digital plasmonic nanobubble detection for rapid and ultrasensitive virus diagnostics.. *Nature Communications*, **2022**, 13, 1687 17.4 ○
- 2 Toward dynamic, anisotropic, high-resolution, and functional measurement in the brain extracellular space.. *Neurophotonics*, **2022**, 9, 032210 3.9 ○
- 1 Plasmonic LAMP: Improving the Detection Specificity and Sensitivity for SARS-CoV-2 by Plasmonic Sensing of Isothermally Amplified Nucleic Acids (Small 12/2022). *Small*, **2022**, 18, 2270059 11