

# Zhenpeng Qin

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

2,153  
citations

394421

19  
h-index

345221

36  
g-index

60  
all docs

60  
docs citations

60  
times ranked

3181  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermophysical and biological responses of gold nanoparticle laser heating. <i>Chemical Society Reviews</i> , 2012, 41, 1191-1217.	38.1	486
2	Ultrasensitive and Highly Specific Lateral Flow Assays for Point-of-Care Diagnosis. <i>ACS Nano</i> , 2021, 15, 3593-3611.	14.6	270
3	Multisite Validation of Cryptococcal Antigen Lateral Flow Assay and Quantification by Laser Thermal Contrast. <i>Emerging Infectious Diseases</i> , 2014, 20, 45-53.	4.3	253
4	Significantly Improved Analytical Sensitivity of Lateral Flow Immunoassays by Using Thermal Contrast. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4358-4361.	13.8	155
5	Quantitative Comparison of Photothermal Heat Generation between Gold Nanospheres and Nanorods. <i>Scientific Reports</i> , 2016, 6, 29836.	3.3	114
6	Gold Nanorod Induced Warming of Embryos from the Cryogenic State Enhances Viability. <i>ACS Nano</i> , 2017, 11, 7869-7878.	14.6	106
7	Thermal Contrast Amplification Reader Yielding 8-Fold Analytical Improvement for Disease Detection with Lateral Flow Assays. <i>Analytical Chemistry</i> , 2016, 88, 11774-11782.	6.5	81
8	Effects of particle's off-axis position, shape, orientation and entry position on resistance changes of micro Coulter counting devices. <i>Measurement Science and Technology</i> , 2011, 22, 045804.	2.6	79
9	Signal amplification and quantification on lateral flow assays by laser excitation of plasmonic nanomaterials. <i>Theranostics</i> , 2020, 10, 4359-4373.	10.0	59
10	Correlated Parameter Fit of Arrhenius Model for Thermal Denaturation of Proteins and Cells. <i>Annals of Biomedical Engineering</i> , 2014, 42, 2392-2404.	2.5	52
11	Reversibly Modulating the Blood-Brain Barrier by Laser Stimulation of Molecular-Targeted Nanoparticles. <i>Nano Letters</i> , 2021, 21, 9805-9815.	9.1	49
12	Irreversible Electroporation: An In Vivo Study with Dorsal Skin Fold Chamber. <i>Annals of Biomedical Engineering</i> , 2013, 41, 619-629.	2.5	41
13	Near-Infrared Light Triggered Release in Deep Brain Regions Using Ultra-photosensitive Nanovesicles. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8608-8615.	13.8	36
14	Molecular Hyperthermia: Spatiotemporal Protein Unfolding and Inactivation by Nanosecond Plasmonic Heating. <i>Small</i> , 2017, 13, 1700841.	10.0	34
15	Ultrafast Near-Infrared Light Triggered Intracellular Uncaging to Probe Cell Signaling. <i>Advanced Functional Materials</i> , 2017, 27, 1605778.	14.9	31
16	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.	13.7	30
17	Membrane-Targeting Approaches for Enhanced Cancer Cell Destruction with Irreversible Electroporation. <i>Annals of Biomedical Engineering</i> , 2014, 42, 193-204.	2.5	27
18	Tuning the Gold Nanoparticle Colorimetric Assay by Nanoparticle Size, Concentration, and Size Combinations for Oligonucleotide Detection. <i>ACS Sensors</i> , 2017, 2, 1627-1636.	7.8	23

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19	Transient Photoinactivation of Cell Membrane Protein Activity without Genetic Modification by Molecular Hyperthermia. ACS Nano, 2019, 13, 12487-12499.	14.6	21
20	Nanotransducers for wireless neuromodulation. Matter, 2021, 4, 1484-1510.	10.0	20
21	Rock the nucleus: significantly enhanced nuclear membrane permeability and gene transfection by plasmonic nanobubble induced nanomechanical transduction. Chemical Communications, 2018, 54, 2479-2482.	4.1	19
22	Plasmonic LAMP: Improving the Detection Specificity and Sensitivity for SARS-CoV-2 by Plasmonic Sensing of Isothermally Amplified Nucleic Acids. Small, 2022, 18, e2107832.	10.0	19
23	Understanding the Collective Optical Properties of Complex Plasmonic Vesicles. Advanced Optical Materials, 2017, 5, 1700403.	7.3	16
24	Digital plasmonic nanobubble detection for rapid and ultrasensitive virus diagnostics. Nature Communications, 2022, 13, 1687.	12.8	16
25	Probing Neuropeptide Volume Transmission In Vivo by Simultaneous Near-Infrared Light-Triggered Release and Optical Sensing**. Angewandte Chemie - International Edition, 2022, 61, .	13.8	14
26	Brain Targeting, Antioxidant Polymeric Nanoparticles for Stroke Drug Delivery and Therapy. Small, 2022, 18, e2107126.	10.0	12
27	Ultrafast Pulsed Laser Induced Nanocrystal Transformation in Colloidal Plasmonic Vesicles. Advanced Optical Materials, 2018, 6, 1800726.	7.3	10
28	Non-Arrhenius Reaction-Diffusion Kinetics for Protein Inactivation over a Large Temperature Range. ACS Nano, 2019, 13, 8669-8679.	14.6	10
29	Computational Investigation of Protein Photoinactivation by Molecular Hyperthermia. Journal of Biomechanical Engineering, 2021, 143, .	1.3	7
30	Nanoparticle Fragmentation below the Melting Point under Single Picosecond Laser Pulse Stimulation. Journal of Physical Chemistry C, 2021, 125, 26718-26730.	3.1	7
31	Near-Infrared Light Triggered-Release in Deep Brain Regions Using Ultra-photosensitive Nanovesicles. Angewandte Chemie, 2020, 132, 8686-8693.	2.0	6
32	One Dimensional Experimental Setup to Study the Heating of Nanoparticle Laden Systems. , 2010, , .		4
33	Spatiotemporal Evolution of Temperature During Transient Heating of Nanoparticle Arrays. Journal of Heat Transfer, 2022, 144, .	2.1	4
34	Curvature and temperature-dependent thermal interface conductance between nanoscale-gold and water. Journal of Chemical Physics, 0, , .	3.0	4
35	An In Vitro Study on Adjuvant Enhanced Irreversible Electroporation. , 2012, , .		3
36	Single pulse heating of a nanoparticle array for biological applications. Nanoscale Advances, 2022, 4, 2090-2097.	4.6	3

#	ARTICLE	IF	CITATIONS
37	Toward dynamic, anisotropic, high-resolution, and functional measurement in the brain extracellular space. <i>Neurophotonics</i> , 2022, 9, 032210.	3.3	2
38	Nanoparticle heating: nanoscale to bulk effects of electromagnetically heated iron oxide and gold for biomedical applications. , 2011, , .		1
39	Probing Neuropeptide Volume Transmission In Vivo by Simultaneous Near-Infrared Light Triggered Release and Optical Sensing. <i>Angewandte Chemie</i> , 0, , .	2.0	1
40	Thermal Analysis Measurement of Gold Nanoparticle Interactions With Cell and Biomaterial. , 2012, , .		0
41	Non-Thermal Destruction of Prostate Cancer by Irreversible Electroporation. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2012, 6, .	0.7	0
42	Thermoplasmonics: Molecular Hyperthermia: Spatiotemporal Protein Unfolding and Inactivation by Nanosecond Plasmonic Heating ( <i>Small</i> 36/2017). <i>Small</i> , 2017, 13, .	10.0	0
43	Flow of Electrolyte With a Surface-Charged Particle in a Nano-Channel: Quasi-Steady Modeling. , 2009, , .		0
44	Irreversible Electroporation: An In Vivo Study Within the Dorsal Skin Fold Chamber. , 2011, , .		0
45	Plasmonic LAMP: Improving the Detection Specificity and Sensitivity for SARS-CoV-2 by Plasmonic Sensing of Isothermally Amplified Nucleic Acids ( <i>Small</i> 12/2022). <i>Small</i> , 2022, 18, .	10.0	0