

Jian-Hua Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

3,165
citations

201575

27
h-index

155592

55
g-index

76
all docs

76
docs citations

76
times ranked

4959
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials for Microfluidic Chip Fabrication. <i>Accounts of Chemical Research</i> , 2013, 46, 2396-2406.	7.6	664
2	Plasmonic gold mushroom arrays with refractive index sensing figures of merit approaching the theoretical limit. <i>Nature Communications</i> , 2013, 4, 2381.	5.8	612
3	Whole-Teflon microfluidic chips. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8162-8166.	3.3	184
4	Sustainable Dual Release of Antibiotic and Growth Factor from pH-Responsive Uniform Alginate Composite Microparticles to Enhance Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22730-22744.	4.0	102
5	Sensitive and rapid on-site detection of SARS-CoV-2 using a gold nanoparticle-based high-throughput platform coupled with CRISPR/Cas12-assisted RT-LAMP. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130411.	4.0	86
6	Antibody modified gold nano-mushroom arrays for rapid detection of alpha-fetoprotein. <i>Biosensors and Bioelectronics</i> , 2015, 68, 468-474.	5.3	77
7	Convenient Method for Modifying Poly(dimethylsiloxane) with Poly(ethylene glycol) in Microfluidics. <i>Analytical Chemistry</i> , 2009, 81, 6627-6632.	3.2	69
8	Bedside Focused Cardiac Ultrasound in COVID-19 from the Wuhan Epicenter: The Role of Cardiac Point-of-Care Ultrasound, Limited Transthoracic Echocardiography, and Critical Care Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2020, 33, 676-682.	1.2	66
9	Construction of Plasmonic Nano-Biosensor-Based Devices for Point-of-Care Testing. <i>Small Methods</i> , 2017, 1, 1700197.	4.6	65
10	Fabrication of a microfluidic Ag/AgCl reference electrode and its application for portable and disposable electrochemical microchips. <i>Electrophoresis</i> , 2010, 31, 3083-3089.	1.3	59
11	Reliable and reusable whole polypropylene plastic microfluidic devices for a rapid, low-cost antimicrobial susceptibility test. <i>Lab on A Chip</i> , 2019, 19, 2915-2924.	3.1	56
12	A tough nitric oxide-eluting hydrogel coating suppresses neointimal hyperplasia on vascular stent. <i>Nature Communications</i> , 2021, 12, 7079.	5.8	54
13	Directing Osteogenesis of Stem Cells with Drug-Laden, Polymer-Microsphere-Based Micropatterns Generated by Teflon Microfluidic Chips. <i>Advanced Functional Materials</i> , 2012, 22, 3799-3807.	7.8	49
14	Stretchable, Healable, and Degradable Soft Ionic Microdevices Based on Multifunctional Soaking-Toughened Dual-Dynamic-Network Organohydrogel Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56393-56402.	4.0	47
15	Mediator-free electron-transfer on patternable hierarchical meso/macro porous bienzyme interface for highly-sensitive sweat glucose and surface electromyography monitoring. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127962.	4.0	47
16	Flexible Nanowire Cluster as a Wearable Colorimetric Humidity Sensor. <i>Small</i> , 2017, 13, 1700109.	5.2	46
17	A new ferroelastic hybrid material with a large spontaneous strain: (Me ₃ NOH) ₂ [ZnCl ₄]. <i>Chemical Communications</i> , 2019, 55, 8983-8986.	2.2	44
18	Well-designed metal nanostructured arrays for label-free plasmonic biosensing. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6479-6492.	2.7	42

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19	Aluminum nanopyramid array with tunable ultraviolet-“visible”-infrared wavelength plasmon resonances for rapid detection of carbohydrate antigen 199. <i>Biosensors and Bioelectronics</i> , 2016, 79, 500-507.	5.3	42
20	Intelligent and Multifunctional Graphene Nanomesh Electronic Skin with High Comfort. <i>Small</i> , 2022, 18, e2104810.	5.2	42
21	Convenient formation of nanoparticle aggregates on microfluidic chips for highly sensitive SERS detection of biomolecules. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1601-1609.	1.9	41
22	On-Chip Screening of Experimental Conditions for the Synthesis of Noble-Metal Nanostructures with Different Morphologies. <i>Small</i> , 2011, 7, 3308-3316.	5.2	32
23	Eccentric magnetic microcapsules for orientation-specific and dual stimuli-responsive drug release. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4530-4538.	2.9	31
24	On-demand shape and size purification of nanoparticle based on surface area. <i>Nanoscale</i> , 2014, 6, 13145-13153.	2.8	30
25	Reciprocating-flowing on-a-chip enables ultra-fast immunobinding for multiplexed rapid ELISA detection of SARS-CoV-2 antibody. <i>Biosensors and Bioelectronics</i> , 2021, 176, 112920.	5.3	30
26	Hydrophilic Magneto-chromic Nanoparticles with Controllable Sizes and Super-high Magnetization for Visualization of Magnetic Field Intensity. <i>Scientific Reports</i> , 2015, 5, 17063.	1.6	29
27	Digital CRISPR/Cas12b-based platform enabled absolute quantification of viral RNA. <i>Analytica Chimica Acta</i> , 2022, 1192, 339336.	2.6	29
28	Controllably tuning the near-infrared plasmonic modes of gold nanoplates for enhanced optical coherence imaging and photothermal therapy. <i>RSC Advances</i> , 2015, 5, 80709-80718.	1.7	28
29	An Optical Sensor with Polyaniline-Gold Hybrid Nanostructures for Monitoring pH in Saliva. <i>Nanomaterials</i> , 2017, 7, 67.	1.9	27
30	Pumping-induced perturbation of flow in microfluidic channels and its implications for on-chip cell culture. <i>Lab on A Chip</i> , 2011, 11, 2288.	3.1	26
31	A Transparent, Wearable Fluorescent Mouthguard for High-Sensitive Visualization and Accurate Localization of Hidden Dental Lesion Sites. <i>Advanced Materials</i> , 2020, 32, e2000060.	11.1	26
32	Artificial Intelligence-Assisted High-Throughput Screening of Printing Conditions of Hydrogel Architectures for Accelerated Diabetic Wound Healing. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	21
33	Generation of uniform polymer eccentric and core-centered hollow microcapsules for ultrasound-regulated drug release. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6848-6854.	2.9	19
34	A high-throughput system combining microfluidic hydrogel droplets with deep learning for screening the antisolvent-crystallization conditions of active pharmaceutical ingredients. <i>Lab on A Chip</i> , 2020, 20, 1907-1916.	3.1	19
35	Engineering Microcapsules for Simultaneous Delivery of Combinational Therapeutics. <i>Advanced Materials Technologies</i> , 2020, 5, 2000623.	3.0	16
36	Hierarchical Patterning of Cells with a Microeraser and Electrospun Nanofibers. <i>Small</i> , 2016, 12, 1230-1239.	5.2	15

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37	Reproducible Plasmonic Nanopyramid Array of Various Metals for Highly Sensitive Refractometric and Surface-Enhanced Raman Biosensing. <i>ACS Omega</i> , 2018, 3, 14181-14187.	1.6	15
38	Metaoptronic Multiplexed Interface for Probing Bioentity Behaviors. <i>Nano Letters</i> , 2021, 21, 2681-2689.	4.5	15
39	Adaptive Gelatin Microspheres Enhanced Stem Cell Delivery and Integration With Diabetic Wounds to Activate Skin Tissue Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 813805.	2.0	15
40	Uniaxial and Coaxial Vertical Embedded Extrusion Bioprinting. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102411.	3.9	15
41	Capture of red blood cells onto optical sensor for rapid ABO blood group typing and erythrocyte counting. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 411-417.	4.0	14
42	An intelligent nanomesh-reinforced graphene pressure sensor with an ultra large linear range. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4858-4869.	5.2	14
43	Generation of a co-culture cell micropattern model to simulate lung cancer bone metastasis for anti-cancer drug evaluation. <i>RSC Advances</i> , 2017, 7, 21837-21847.	1.7	13
44	Plasmonic Al nanopyramid array sensor for monitoring the attaching and spreading of cells. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 503-508.	4.0	13
45	Osteon-mimetic 3D nanofibrous scaffold enhances stem cell proliferation and osteogenic differentiation for bone regeneration. <i>Biomaterials Science</i> , 2022, 10, 1090-1103.	2.6	13
46	Microfluidic High-Throughput Platforms for Discovery of Novel Materials. <i>Nanomaterials</i> , 2020, 10, 2514.	1.9	12
47	Low-cost replication of plasmonic gold nanomushroom arrays for transmission-mode and multichannel biosensing. <i>RSC Advances</i> , 2015, 5, 61270-61276.	1.7	11
48	Electromyogram-strain synergetic intelligent artificial throat. <i>Chemical Engineering Journal</i> , 2022, 449, 137741.	6.6	11
49	Protein Capsules with Cross-Linked, Semipermeable, and Enzyme-Degradable Surface Barriers for Controlled Release. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1436-1442.	2.0	10
50	Multimodality imaging-guided local injection of eccentric magnetic microcapsules with electromagnetically controlled drug release. <i>Cancer Reports</i> , 2019, 2, e1154.	0.6	10
51	A microarray platform designed for high-throughput screening the reaction conditions for the synthesis of micro/nanosized biomedical materials. <i>Bioactive Materials</i> , 2020, 5, 286-296.	8.6	10
52	Gold Nanoprobe-Enabled Three-Dimensional Ozone Imaging by Optical Coherence Tomography. <i>Analytical Chemistry</i> , 2017, 89, 2561-2568.	3.2	8
53	Plasmonic Nanoprobe of (Gold Triangular Nanoprism Core)/(Polyaniline Shell) for Real-Time Three-Dimensional pH Imaging of Anterior Chamber. <i>Analytical Chemistry</i> , 2017, 89, 9758-9766.	3.2	8
54	High-Aspect-Ratio Plasmonic Heterostructures for In Vivo Enhanced Optical Coherence Tomography Imaging in the Second Near-Infrared Biological Window. <i>Advanced Optical Materials</i> , 2020, 8, 2000384.	3.6	8

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55	Controlled drug release from ultrasound-visualized elastic eccentric microcapsules using different resonant modes. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1920-1929.	2.9	7
56	Plasmon-Emitter Hybrid Nanostructures of Gold Nanorod-Quantum Dots with Regulated Energy Transfer as a Universal Nano-Sensor for One-step Biomarker Detection. <i>Nanomaterials</i> , 2020, 10, 444.	1.9	7
57	Hollow Microneedle Arrays Produced by Low-Cost, High-Fidelity Replication of Hypodermic Needle Tips for High-Dose Transdermal Drug Delivery. <i>Advanced Engineering Materials</i> , 2021, 23, 2001355.	1.6	7
58	Vascularized Carotid Atherosclerotic Plaque Models for the Validation of Novel Methods of Quantifying Intraplaque Neovascularization. <i>Journal of the American Society of Echocardiography</i> , 2021, 34, 1184-1194.	1.2	7
59	Ultrasensitive Molecular Detection at Subpicomolar Concentrations by the Diffraction Pattern Imaging with Plasmonic Metasurfaces and Convex Holographic Gratings. <i>Advanced Science</i> , 2022, 9, .	5.6	7
60	Intelligent and highly sensitive strain sensor based on indium tin oxide micromesh with a high crack density. <i>Nanoscale</i> , 2022, 14, 4234-4243.	2.8	6
61	Eccentric magnetic microcapsules for MRI-guided local administration and pH-regulated drug release. <i>RSC Advances</i> , 2018, 8, 41956-41965.	1.7	5
62	Optimizing the performance of digital loop-mediated isothermal amplification. <i>Analytical Biochemistry</i> , 2021, 631, 114371.	1.1	5
63	Au@Ag Nanorods-PDMS Wearable Mouthguard as a Visualized Detection Platform for Screening Dental Caries and Periodontal Diseases. <i>Advanced Healthcare Materials</i> , 2021, , 2102682.	3.9	3
64	Template-Electrodeposited Plasmonic Metasurfaces for High-Sensitivity Biomolecular Detection. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	3
65	Single Plasmonic Particle with Exposed Sensing Hot Spot for Exploring Gas Molecule Adsorption in Nanolocalized Space. <i>Analytical Chemistry</i> , 2019, 91, 4063-4069.	3.2	2
66	Monitoring the Adhesion and Inhibitory Activity of <i>Candida albicans</i> on Poly-L-lysine Modified Gold Nano-Match Head Arrays. <i>Advanced Materials Interfaces</i> , 0, , 2102590.	1.9	2
67	Dual-phase nanoplasmonic sensing platform for monitoring blood protein adsorption and its coagulation in vitro. <i>Sensors and Actuators B: Chemical</i> , 2022, 368, 132240.	4.0	2
68	Ultrasound-visualized, site-specific vascular embolization using magnetic protein microcapsules. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2407-2416.	2.9	1
69	NanoSuit-Assisted Liquid-Cell Scanning Electron Microscopy Enables Dynamic Gold Nanoparticle Monitoring for the Aggregation and Transmembrane Processes in Living Cells. <i>Nano Letters</i> , 2022, 22, 5788-5794.	4.5	1
70	A fluorescence detector for rapid on-chip detection of amniotic fluid embolism biomarker based on dual-gate photosensitive thin-film transistor. , 2016, , .		0
71	A Microarray Screening Platform with an Experimental Conditions Gradient Generator for the High-Throughput Synthesis of Micro/Nanosized Calcium Phosphates. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3939.	1.8	0
72	Hollow Microneedle Arrays Produced by Low-Cost, High-Fidelity Replication of Hypodermic Needle Tips for High-Dose Transdermal Drug Delivery. <i>Advanced Engineering Materials</i> , 2021, 23, 2170020.	1.6	0

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73	Nanocomposites: A Transparent, Wearable Fluorescent Mouthguard for High-Sensitive Visualization and Accurate Localization of Hidden Dental Lesion Sites (Adv. Mater. 21/2020). Advanced Materials, 2020, 32, 2070162.	11.1	0