

Jian-Hua Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

3,165
citations

201674

27
h-index

155660

55
g-index

76
all docs

76
docs citations

76
times ranked

4959
citing authors

#	ARTICLE	IF	CITATIONS
1	Digital CRISPR/Cas12b-based platform enabled absolute quantification of viral RNA. <i>Analytica Chimica Acta</i> , 2022, 1192, 339336.	5.4	29
2	An intelligent nanomesh-reinforced graphene pressure sensor with an ultra large linear range. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4858-4869.	10.3	14
3	Osteon-mimetic 3D nanofibrous scaffold enhances stem cell proliferation and osteogenic differentiation for bone regeneration. <i>Biomaterials Science</i> , 2022, 10, 1090-1103.	5.4	13
4	Intelligent and highly sensitive strain sensor based on indium tin oxide micromesh with a high crack density. <i>Nanoscale</i> , 2022, 14, 4234-4243.	5.6	6
5	Intelligent and Multifunctional Graphene Nanomesh Electronic Skin with High Comfort. <i>Small</i> , 2022, 18, e2104810.	10.0	42
6	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.	4.1	15
7	Uniaxial and Coaxial Vertical Embedded Extrusion Bioprinting. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102411.	7.6	15
8	Template-Free Electrodeposited Plasmonic Metasurfaces for High-Sensitivity Biomolecular Detection. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	3
9	Ultrasensitive Molecular Detection at Subpicomolar Concentrations by the Diffraction Pattern Imaging with Plasmonic Metasurfaces and Convex Holographic Gratings. <i>Advanced Science</i> , 2022, 9, .	11.2	7
10	Electromyogram-strain synergetic intelligent artificial throat. <i>Chemical Engineering Journal</i> , 2022, 449, 137741.	12.7	11
11	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.	7.8	2
12	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.	9.1	1
13	Artificial Intelligence-Assisted High-Throughput Screening of Printing Conditions of Hydrogel Architectures for Accelerated Diabetic Wound Healing. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	21
14	Ultrasound-visualized, site-specific vascular embolization using magnetic protein microcapsules. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2407-2416.	5.8	1
15	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.	3.5	7
16	Metaoptronic Multiplexed Interface for Probing Bioentity Behaviors. <i>Nano Letters</i> , 2021, 21, 2681-2689.	9.1	15
17	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.	10.1	30
18	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.	3.5	0

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19	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.	2.8	7
20	Optimizing the performance of digital loop-mediated isothermal amplification. <i>Analytical Biochemistry</i> , 2021, 631, 114371.	2.4	5
21	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.	7.8	86
22	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.	7.6	3
23	A tough nitric oxide-eluting hydrogel coating suppresses neointimal hyperplasia on vascular stent. <i>Nature Communications</i> , 2021, 12, 7079.	12.8	54
24	Engineering Microcapsules for Simultaneous Delivery of Combinational Therapeutics. <i>Advanced Materials Technologies</i> , 2020, 5, 2000623.	5.8	16
25	Microfluidic High-Throughput Platforms for Discovery of Novel Materials. <i>Nanomaterials</i> , 2020, 10, 2514.	4.1	12
26	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.	8.0	47
27	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.	2.8	66
28	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.	6.0	19
29	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.	7.3	8
30	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.	4.1	0
31	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.	7.8	47
32	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.	4.1	7
33	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.	15.6	10
34	A Transparent, Wearable Fluorescent Mouthguard for High-Sensitive Visualization and Accurate Localization of Hidden Dental Lesion Sites. <i>Advanced Materials</i> , 2020, 32, e2000060.	21.0	26
35	Nanocomposites: A Transparent, Wearable Fluorescent Mouthguard for High-Sensitive Visualization and Accurate Localization of Hidden Dental Lesion Sites (Adv. Mater. 21/2020). <i>Advanced Materials</i> , 2020, 32, 2070162.	21.0	0
36	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.	6.0	56

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37	A new ferroelastic hybrid material with a large spontaneous strain: (Me ₃ NOH) ₂ [ZnCl ₄]. Chemical Communications, 2019, 55, 8983-8986.	4.1	44
38	Sustainable Dual Release of Antibiotic and Growth Factor from pH-Responsive Uniform Alginate Composite Microparticles to Enhance Wound Healing. ACS Applied Materials & Interfaces, 2019, 11, 22730-22744.	8.0	102
39	Single Plasmonic Particle with Exposed Sensing Hot Spot for Exploring Gas Molecule Adsorption in Nanolocalized Space. Analytical Chemistry, 2019, 91, 4063-4069.	6.5	2
40	Multimodality imaging-guided local injection of eccentric magnetic microcapsules with electromagnetically controlled drug release. Cancer Reports, 2019, 2, e1154.	1.4	10
41	Plasmonic Al nanopyramid array sensor for monitoring the attaching and spreading of cells. Sensors and Actuators B: Chemical, 2019, 279, 503-508.	7.8	13
42	Controlled drug release from ultrasound-visualized elastic eccentric microcapsules using different resonant modes. Journal of Materials Chemistry B, 2018, 6, 1920-1929.	5.8	7
43	Capture of red blood cells onto optical sensor for rapid ABO blood group typing and erythrocyte counting. Sensors and Actuators B: Chemical, 2018, 262, 411-417.	7.8	14
44	Eccentric magnetic microcapsules for MRI-guided local administration and pH-regulated drug release. RSC Advances, 2018, 8, 41956-41965.	3.6	5
45	Reproducible Plasmonic Nanopyramid Array of Various Metals for Highly Sensitive Refractometric and Surface-Enhanced Raman Biosensing. ACS Omega, 2018, 3, 14181-14187.	3.5	15
46	Gold Nanoprobe-Enabled Three-Dimensional Ozone Imaging by Optical Coherence Tomography. Analytical Chemistry, 2017, 89, 2561-2568.	6.5	8
47	Generation of a co-culture cell micropattern model to simulate lung cancer bone metastasis for anti-cancer drug evaluation. RSC Advances, 2017, 7, 21837-21847.	3.6	13
48	Flexible Nanowire Cluster as a Wearable Colorimetric Humidity Sensor. Small, 2017, 13, 1700109.	10.0	46
49	Construction of Plasmonic Nano-Biosensor-Based Devices for Point-of-Care Testing. Small Methods, 2017, 1, 1700197.	8.6	65
50	Plasmonic Nanoprobe of (Gold Triangular Nanoprism Core)/(Polyaniline Shell) for Real-Time Three-Dimensional pH Imaging of Anterior Chamber. Analytical Chemistry, 2017, 89, 9758-9766.	6.5	8
51	An Optical Sensor with Polyaniline-Gold Hybrid Nanostructures for Monitoring pH in Saliva. Nanomaterials, 2017, 7, 67.	4.1	27
52	Hierarchical Patterning of Cells with a Microeraser and Electrospun Nanofibers. Small, 2016, 12, 1230-1239.	10.0	15
53	A fluorescence detector for rapid on-chip detection of amniotic fluid embolism biomarker based on dual-gate photosensitive thin-film transistor. , 2016, , .		0
54	Aluminum nanopyramid array with tunable ultraviolet-“visible”-infrared wavelength plasmon resonances for rapid detection of carbohydrate antigen 199. Biosensors and Bioelectronics, 2016, 79, 500-507.	10.1	42

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55	Hydrophilic Magnetochromatic Nanoparticles with Controllable Sizes and Super-high Magnetization for Visualization of Magnetic Field Intensity. <i>Scientific Reports</i> , 2015, 5, 17063.	3.3	29
56	Eccentric magnetic microcapsules for orientation-specific and dual stimuli-responsive drug release. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4530-4538.	5.8	31
57	Well-designed metal nanostructured arrays for label-free plasmonic biosensing. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6479-6492.	5.5	42
58	Antibody modified gold nano-mushroom arrays for rapid detection of alpha-fetoprotein. <i>Biosensors and Bioelectronics</i> , 2015, 68, 468-474.	10.1	77
59	Low-cost replication of plasmonic gold nanomushroom arrays for transmission-mode and multichannel biosensing. <i>RSC Advances</i> , 2015, 5, 61270-61276.	3.6	11
60	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.	3.6	28
61	On-demand shape and size purification of nanoparticle based on surface area. <i>Nanoscale</i> , 2014, 6, 13145-13153.	5.6	30
62	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.	5.8	19
63	Protein Capsules with Cross-Linked, Semipermeable, and Enzyme-Degradable Surface Barriers for Controlled Release. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1436-1442.	3.9	10
64	Plasmonic gold mushroom arrays with refractive index sensing figures of merit approaching the theoretical limit. <i>Nature Communications</i> , 2013, 4, 2381.	12.8	612
65	Materials for Microfluidic Chip Fabrication. <i>Accounts of Chemical Research</i> , 2013, 46, 2396-2406.	15.6	664
66	Directing Osteogenesis of Stem Cells with Drug-Loaded, Polymer-Microsphere-Based Micropatterns Generated by Teflon Microfluidic Chips. <i>Advanced Functional Materials</i> , 2012, 22, 3799-3807.	14.9	49
67	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.	3.7	41
68	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.	6.0	26
69	On-Chip Screening of Experimental Conditions for the Synthesis of Noble-Metal Nanostructures with Different Morphologies. <i>Small</i> , 2011, 7, 3308-3316.	10.0	32
70	Whole-Teflon microfluidic chips. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8162-8166.	7.1	184
71	Fabrication of a microfluidic Ag/AgCl reference electrode and its application for portable and disposable electrochemical microchips. <i>Electrophoresis</i> , 2010, 31, 3083-3089.	2.4	59
72	Convenient Method for Modifying Poly(dimethylsiloxane) with Poly(ethylene glycol) in Microfluidics. <i>Analytical Chemistry</i> , 2009, 81, 6627-6632.	6.5	69

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73	Monitoring the Adhesion and Inhibitory Activity of <i>Candida albicans</i> on Poly-L-lysine Modified Gold Nano-Match Head Arrays. Advanced Materials Interfaces, 0, , 2102590.	3.7	2