

Hong Zhou

List of Publications by Year in descending order

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80
papers

1,579
citations

361413

20
h-index

345221

36
g-index

81
all docs

81
docs citations

81
times ranked

1562
citing authors

#	ARTICLE	IF	CITATIONS
1	A chaotic pendulum triboelectric-electromagnetic hybridized nanogenerator for wave energy scavenging and self-powered wireless sensing system. <i>Nano Energy</i> , 2020, 69, 104440.	16.0	152
2	Dual-Mode SERS and Electrochemical Detection of miRNA Based on Popcorn-like Gold Nanofilms and Toehold-Mediated Strand Displacement Amplification Reaction. <i>Analytical Chemistry</i> , 2021, 93, 6120-6127.	6.5	98
3	Metal-Organic Framework Surface-Enhanced Infrared Absorption Platform Enables Simultaneous On-Chip Sensing of Greenhouse Gases. <i>Advanced Science</i> , 2020, 7, 2001173.	11.2	71
4	Aquaporin-1 retards renal cyst development in polycystic kidney disease by inhibition of Wnt signaling. <i>FASEB Journal</i> , 2015, 29, 1551-1563.	0.5	66
5	A novel synergistic enhanced chemiluminescence achieved by a multiplex nanoprobe for biological applications combined with dual-amplification of magnetic nanoparticles. <i>Chemical Science</i> , 2010, 1, 681.	7.4	64
6	Recent advances of ratiometric electrochemiluminescence biosensors. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6469-6475.	5.8	64
7	Many Birds, One Stone: A Smart Nanodevice for Ratiometric Dual-Spectrum Assay of Intracellular MicroRNA and Multimodal Synergetic Cancer Therapy. <i>ACS Nano</i> , 2021, 15, 6961-6976.	14.6	64
8	Multi-Band Sensing for Dielectric Property of Chemicals Using Metamaterial Integrated Microfluidic Sensor. <i>Scientific Reports</i> , 2018, 8, 14801.	3.3	60
9	Terahertz biosensing based on bi-layer metamaterial absorbers toward ultra-high sensitivity and simple fabrication. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	59
10	A double-helix-structured triboelectric nanogenerator enhanced with positive charge traps for self-powered temperature sensing and smart-home control systems. <i>Nanoscale</i> , 2018, 10, 19781-19790.	5.6	46
11	Infrared metamaterial for surface-enhanced infrared absorption spectroscopy: pushing the frontier of ultrasensitive on-chip sensing. <i>International Journal of Optomechatronics</i> , 2021, 15, 97-119.	6.6	46
12	Enhancing the Output Performance of Triboelectric Nanogenerator via Grating-Electrode-Enabled Surface Plasmon Excitation. <i>Advanced Energy Materials</i> , 2019, 9, 1902725.	19.5	45
13	Infrared Plasmonic Biosensor with Tetrahedral DNA Nanostructure as Carriers for Label-Free and Ultrasensitive Detection of miR-155. <i>Advanced Science</i> , 2021, 8, e2100583.	11.2	43
14	Bionic Ultra-Sensitive Self-Powered Electromechanical Sensor for Muscle-Triggered Communication Application. <i>Advanced Science</i> , 2021, 8, e2101020.	11.2	41
15	Three-dimensional fluorescence spectral characterization of soil dissolved organic matters in the fluctuating water-level zone of Kai County, Three Gorges Reservoir. <i>Frontiers of Environmental Science and Engineering in China</i> , 2011, 5, 426-434.	0.8	38
16	Plasmonic Biosensor Augmented by a Genetic Algorithm for Ultra-Rapid, Label-Free, and Multi-Functional Detection of COVID-19. <i>Analytical Chemistry</i> , 2021, 93, 9437-9444.	6.5	34
17	Multifunctional Chemical Sensing Platform Based on Dual-Resonant Infrared Plasmonic Perfect Absorber for On-Chip Detection of Poly(ethyl cyanoacrylate). <i>Advanced Science</i> , 2021, 8, e2101879.	11.2	29
18	Enhanced electrochemiluminescence ratiometric cytosensing based on surface plasmon resonance of Au nanoparticles and nanosucculent films. <i>Biosensors and Bioelectronics</i> , 2021, 189, 113367.	10.1	26

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19	Integrating a Microwave Resonator and a Microchannel with an Immunochromatographic Strip for Stable and Quantitative Biodetection. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14630-14639.	8.0	25
20	Low molecular weight fucoidan protects renal tubular cells from injury induced by albumin overload. <i>Scientific Reports</i> , 2016, 6, 31759.	3.3	24
21	Biological effects of corosolic acid as an anti-inflammatory, anti-metabolic syndrome and anti-neoplastic natural compound (Review). <i>Oncology Letters</i> , 2020, 21, 84.	1.8	22
22	Aquaporin-3 deletion in mice results in renal collecting duct abnormalities and worsens ischemia-reperfusion injury. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 1231-1241.	3.8	21
23	Relevance function of microRNA-708 in the pathogenesis of cancer. <i>Cellular Signalling</i> , 2019, 63, 109390.	3.6	21
24	Hybrid Sequencing of Full-Length cDNA Transcripts of Stems and Leaves in <i>Dendrobium officinale</i> . <i>Genes</i> , 2017, 8, 257.	2.4	20
25	Natural products, extracts and formulations comprehensive therapy for the improvement of motor function in alcoholic liver disease. <i>Pharmacological Research</i> , 2019, 150, 104501.	7.1	19
26	Electric Field Stiffening Effect in <i>c</i> -Oriented Aluminum Nitride Piezoelectric Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1819-1827.	8.0	18
27	Low molecular weight fucoidan ameliorates diabetic nephropathy via inhibiting epithelial-mesenchymal transition and fibrotic processes. <i>American Journal of Translational Research (discontinued)</i> , 2015, 7, 1553-63.	0.0	18
28	Loss-induced phase transition in mid-infrared plasmonic metamaterials for ultrasensitive vibrational spectroscopy. <i>Informa Mater</i> , 2022, 4, .	17.3	18
29	A Novel Colon-Specific Osmotic Pump Capsule of Panax notoginseng Saponins (PNS): Formulation, Optimization, and In Vitro-In Vivo Evaluation. <i>AAPS PharmSciTech</i> , 2018, 19, 2322-2329.	3.3	17
30	Dual-mode resonant infrared detector based on film bulk acoustic resonator toward ultra-high sensitivity and anti-interference capability. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	16
31	Influence of Multiple Bionic Unit Coupling on Sliding Wear of Laser-Processed Gray Cast Iron. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 1614-1625.	2.5	13
32	Cardamonin retards progression of autosomal dominant polycystic kidney disease via inhibiting renal cyst growth and interstitial fibrosis. <i>Pharmacological Research</i> , 2020, 155, 104751.	7.1	13
33	Corrosion properties in a simulated body fluid of Mg/TCP composites prepared by powder metallurgy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012, 19, 1040-1044.	4.9	12
34	Functional inhibition of urea transporter UT-B enhances endothelial-dependent vasodilatation and lowers blood pressure via L-arginine-endothelial nitric oxide synthase-nitric oxide pathway. <i>Scientific Reports</i> , 2016, 6, 18697.	3.3	12
35	Effects of Laser Energies on Wear and Tensile Properties of Biomimetic 7075 Aluminum Alloy. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 1361-1368.	2.5	12
36	Bionic Repair of Thermal Fatigue Cracks in Ductile Iron by Laser Melting with Different Laser Parameters. <i>Metals</i> , 2020, 10, 101.	2.3	12

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37	Dual-resonator Lamb wave strain sensor with temperature compensation and enhanced sensitivity. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	11
38	Effects of Different Graphite Types on the Thermal Fatigue Behavior of Bionic Laser-Processed Gray Cast Iron. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 5848-5857.	2.2	11
39	Performance enhancements of high-pressure die-casting die processed by biomimetic laser-remelting process. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 58, 421-429.	3.0	10
40	High-temperature high-sensitivity AlN-on-SOI Lamb wave resonant strain sensor. <i>AIP Advances</i> , 2018, 8, .	1.3	10
41	A general scattering proximity immunoassay with the formation of dimer of gold nanoparticle. <i>Talanta</i> , 2021, 233, 122515.	5.5	10
42	Self-Assembly of Multifunctional DNA Nanohydrogels with Tumor Microenvironment-Responsive Cascade Reactions for Cooperative Cancer Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 5165-5174.	5.2	10
43	Imposed Thermal Fatigue and Post-Thermal-Cycle Wear Resistance of Biomimetic Gray Cast Iron by Laser Treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 3758-3769.	2.2	9
44	Theoretical and Experimental Studies on MEMS Variable Cross-Section Cantilever Beam Based Piezoelectric Vibration Energy Harvester. <i>Micromachines</i> , 2021, 12, 772.	2.9	8
45	Identification of Traditional She Medicine Shi-Liang Tea Species and Closely Related Species Using the ITS2 Barcode. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 195.	2.5	7
46	Temperature Monitorable Kinetics Study of Human Blood Coagulation by Utilizing a Dual-Mode AlN-Based Acoustic Wave Resonator. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 131-135.	3.0	7
47	Influence of Laser Energy Density on Acquisition and Wear Resistance of Bionic Semisolid Unit of 40Cr Steel. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 2283-2295.	2.5	7
48	Comparative Study of Induction Quenching and Laser Surface Texturing on Anti-wear Performance of 40Cr Steel. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 2238-2244.	2.5	7
49	Corticotropin-releasing hormone reduces basal estradiol production in zebrafish follicular cells. <i>Molecular and Cellular Endocrinology</i> , 2021, 527, 111222.	3.2	7
50	Proximity binding induced nucleic acid cascade amplification strategy for ultrasensitive homogeneous detection of PSA. <i>Analytica Chimica Acta</i> , 2021, 1186, 339123.	5.4	7
51	Experimental and modeling study on Cr(VI) transfer from soil into surface runoff. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016, 30, 1347-1361.	4.0	6
52	Effect of alternate biomimetic coupling units on dry sliding wear resistance of gray cast iron. <i>Journal of Materials Research</i> , 2017, 32, 343-353.	2.6	6
53	Temperature decoupled viscosity-density product measurement in liquid by utilizing a dual-mode AlN-based acoustic wave resonator. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	6
54	The combination of cloxacillin, thioridazine and tetracycline protects mice against <i>Staphylococcus aureus</i> peritonitis by inhibiting $\hat{1}\pm$ -Hemolysin-induced MAPK/NF- $\hat{1}\pm$ B/NLRP3 activation. <i>International Journal of Biological Macromolecules</i> , 2022, 198, 1-10.	7.5	6

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55	Influence of carbon pre-coating prior to laser deposition on rolling contact fatigue of gray cast iron. <i>Journal of Materials Research</i> , 2015, 30, 3104-3115.	2.6	5
56	Influence of Cycle Temperature on the Wear Resistance of Vermicular Iron Derivatized with Bionic Surfaces. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 5534-5547.	2.2	5
57	The knockout of urea transporter-B improves the hemorheological properties of erythrocyte. <i>Clinical Hemorheology and Microcirculation</i> , 2017, 65, 249-257.	1.7	5
58	Peptide-Based Biosensing of Redox-Active Protein-Heme Complexes Indicates Novel Mechanism for Tumor Survival under Oxidative Stress. <i>ACS Sensors</i> , 2019, 4, 2671-2678.	7.8	5
59	Effect of Composition on the Mechanical Properties and Wear Resistance of Low and Medium Carbon Steels with a Biomimetic Non-Smooth Surface Processed by Laser Remelting. <i>Metals</i> , 2020, 10, 37.	2.3	5
60	Metamaterial Gas Sensing Platform Based on Surface-Enhanced Infrared Absorption. , 2020, , .		5
61	An Enhanced-Differential PMUT for Ultra-Long Distance Measurement in Air. , 2021, , .		5
62	Resonant Magnetometer for Ultralow Magnetic Field Detection by Integrating Magnetoelastic Membrane on Film Bulk Acoustic Resonator. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 1452-1460.	3.0	5
63	Fault detection of nonlinear dynamic processes using dynamic kernel principal component analysis. , 2008, , .		4
64	Triboelectric Nanogenerators: Enhancing the Output Performance of Triboelectric Nanogenerator via Grating-Electrode-Enabled Surface Plasmon Excitation (<i>Adv. Energy Mater.</i> 44/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970177.	19.5	4
65	Surface-Enhanced Infrared Absorption-Based Biosensor and its Application to DNA Identification. , 2020, , .		4
66	Flexible Nano-Ag@paper Biosensor and its Application in Detection of Liver Cancer. , 2018, , .		3
67	Effects of angle formation between melted zone and friction direction on thermal fatigue and wear resistance of truck drum brake. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2021, 235, 1297-1307.	1.9	3
68	Injection of CD86+ macrophages instead of liver partition accelerates liver regeneration after portal vein ligation in rats. <i>Archives of Medical Science</i> , 2021, 17, 843-847.	0.9	3
69	Gene expression profile analysis and target gene discovery of <i>Mycobacterium tuberculosis</i> biofilm. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 5123-5134.	3.6	3
70	Cover die service life improvement by biomimetic laser-remelting process and CAE simulation. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 66, 1623-1631.	3.0	2
71	Spatiotemporal variations in euphotic depth and their correlation with influencing factors in a tributary of the <i>Taree Georges Reservoir</i> . <i>Water and Environment Journal</i> , 2014, 28, 233-241.	2.2	2
72	Effects of Pearlite on Thermal Fatigue and Wear Resistance of Gray Cast Iron Treated by Laser. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 3962-3974.	2.5	2

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73	Integrating Metamaterial and Microchannel onto Flexible Paper as Miniaturized Biochemical Sensing Platform. , 2019, , .		1
74	Targeting IRS α 1/ mPGES α 1/ NOX2 to inhibit the inflammatory response caused by insulin-like growth factor α 1-induced activation of NF κ B and NLRP3 in cancer cells. Veterinary and Comparative Oncology, 2020, 18, 689-698.	1.8	1
75	Simultaneous Quantification and Identification of Protein by Metamaterial Perfect Absorber. , 2020, , .		1
76	Influence of varying forms of bionic units on repairing remaining quenching surface of gray cast iron. Journal of Iron and Steel Research International, 2021, 28, 201-210.	2.8	1
77	Mid-IR Metamaterial Absorber with Polyvinylamine as a Sensitive Layer for On-Chip Sensing of Carbon Dioxide. , 2021, , .		1
78	Microstructure and Property of HD Die Steel With Unsmoothed Surface With Various Laser Parameters. Journal of Iron and Steel Research International, 2008, 15, 52-56.	2.8	0
79	Novel Molecular Imprinted Polymer Used to Detect Trace Codeine on Surface Plasmon Resonance. , 2016, , .		0
80	Magnetic Field Modulation Enhancement Effect in Split Ring Resonator for Biological Detection. , 2018, , .		0