

Liang Chen

List of Publications by Year in descending order

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112
papers

5,847
citations

182225
30
h-index

93651
72
g-index

112
all docs

112
docs citations

112
times ranked

8965
citing authors

#	ARTICLE	IF	CITATIONS
1	Brønsted acid enhanced hexagonal cerium phosphate for the selective catalytic reduction of NO with NH ₃ : In situ DRIFTS and DFT investigation. <i>Journal of Hazardous Materials</i> , 2022, 424, 127334.	6.5	12
2	Improved Stable Drag Reduction of Controllable Laser-Patterned Superwetting Surfaces Containing Bioinspired Micro/Nanostructured Arrays. <i>ACS Omega</i> , 2022, 7, 2049-2063.	1.6	15
3	Primary cilia and ciliary signaling pathways in aging and age-related brain disorders. <i>Neurobiology of Disease</i> , 2022, 163, 105607.	2.1	41
4	Phosphate on ceria with controlled active sites distribution for wide temperature NH ₃ -SCR. <i>Journal of Hazardous Materials</i> , 2022, 427, 128148.	6.5	22
5	Engineering Catalytic Interfaces in Cu ⁺ /CeO ₂ -TiO ₂ Photocatalysts for Synergistically Boosting CO ₂ Reduction to Ethylene. <i>ACS Nano</i> , 2022, 16, 2306-2318.	7.3	107
6	Unraveling the Role of Interfacial Water Structure in Electrochemical Semihydrogenation of Alkynes. <i>ACS Catalysis</i> , 2022, 12, 4840-4847.	5.5	34
7	First-principles study of substitutional solute and carbon interactions in tungsten. <i>Tungsten</i> , 2022, 4, 231-238.	2.0	3
8	New insights into the radial structural differences of polyacrylonitrile fibres during thermal stabilization by the synchronous processing adjustment of time and temperature. <i>RSC Advances</i> , 2022, 12, 13339-13346.	1.7	1
9	Synthesis of self-healing soybean oil-based waterborne polyurethane based on Diels-Alder reaction. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	4
10	PIWI-interacting RNAs in human diseases: databases and computational models. <i>Briefings in Bioinformatics</i> , 2022, 23, .	3.2	5
11	The bioinformatics toolbox for circRNA discovery and analysis. <i>Briefings in Bioinformatics</i> , 2021, 22, 1706-1728.	3.2	170
12	Effects of simplified ethanol-wet bonding and hydrophobic coating on resin-dentin bonding properties. <i>Journal of Adhesion Science and Technology</i> , 2021, 35, 913-927.	1.4	3
13	RNA polymerase II associated proteins regulate stomatal development through direct interaction with stomatal transcription factors in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2021, 230, 171-189.	3.5	7
14	The effects of three cold plasma treatments on the osteogenic activity and antibacterial property of PEEK. <i>Dental Materials</i> , 2021, 37, 81-93.	1.6	36
15	Ab initio calculations of interaction between Ni and Si in α -Fe. <i>Journal of Nuclear Science and Technology</i> , 2021, 58, 201-206.	0.7	0
16	Noncoding RNAs and Epigenetic Regulation in Aging. , 2021, , 348-363.		0
17	Dysregulation of MicroRNAs and PIWI-Interacting RNAs in a <i>Caenorhabditis elegans</i> Parkinson's Disease Model Overexpressing Human α -Synuclein and Influence of tdp-1. <i>Frontiers in Neuroscience</i> , 2021, 15, 600462.	1.4	12
18	DeepHBSP: A Deep Learning Framework for Predicting Human Blood-Secretory Proteins Using Transfer Learning. <i>Journal of Computer Science and Technology</i> , 2021, 36, 234-247.	0.9	1

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19	Biogenesis, physiological functions and potential applications of extracellular vesicles in substance use disorders. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 4849-4865.	2.4	18
20	Bauschinger-Like Effect of AZ31 Magnesium Alloy Wide Sheet During the Straightening Process. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 1255-1264.	1.5	6
21	Experimental study on the suffusion mechanism of gap-graded soils under an exceedance hydraulic gradient. <i>Natural Hazards</i> , 2021, 109, 405-439.	1.6	7
22	Distribution of antibiotic resistance genes in the environment. <i>Environmental Pollution</i> , 2021, 285, 117402.	3.7	126
23	Human amyloid beta and β -synuclein co-expression in neurons impair behavior and recapitulate features for Lewy body dementia in <i>Caenorhabditis elegans</i> . <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021, 1867, 166203.	1.8	14
24	Effect of welding current on the microstructures and mechanical properties of GTAW joints for ZLa22 alloy. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 2309-2318.	1.3	4
25	Double C-S bond formation via multiple Csp ³ -H bond cleavage: synthesis of 4-hydroxythiazoles from amides and elemental sulfur under metal-free conditions. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 10068-10072.	1.5	5
26	Fluorescent Nanoscale Covalent Organic Frameworks with the Theoretically Matched Redox Potential of Fe ³⁺ /Fe ²⁺ for Monitoring of Adenosine-5 ² -Triphosphate in Cells. <i>ACS Applied Nano Materials</i> , 2021, 4, 13132-13139.	2.4	8
27	Modeling and Optimizing of the Multi-Layer Nearest Neighbor Network for Face Image Super-Resolution. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020, 30, 4513-4525.	5.6	14
28	Sequence analysis of reassortants within H3N2 subtype influenza A virus circulated in Hong Kong, 2014-2017. <i>Travel Medicine and Infectious Disease</i> , 2020, 33, 101510.	1.5	1
29	Structural Transformation of Polyacrylonitrile (PAN) Fibers during Rapid Thermal Pretreatment in Nitrogen Atmosphere. <i>Polymers</i> , 2020, 12, 63.	2.0	39
30	CoP/N-Doped Carbon Nanowire Derived from Co-Based Coordination Polymer as Efficient Electrocatalyst toward Oxygen Evolution Reaction. <i>Energy Technology</i> , 2020, 8, 1901419.	1.8	5
31	lncRNA PART1 and MIR17HG as β -catenin direct targets regulate tumor progression of cervical squamous cell carcinoma. <i>Cancer Science</i> , 2020, 111, 4129-4141.	1.7	15
32	RSD1 Is Essential for Stomatal Patterning and Files in Rice. <i>Frontiers in Plant Science</i> , 2020, 11, 600021.	1.7	7
33	PDmethDB: A curated Parkinson's disease associated methylation information database. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 3745-3749.	1.9	6
34	Circular RNAs from <i>BOULE</i> play conserved roles in protection against stress-induced fertility decline. <i>Science Advances</i> , 2020, 6, .	4.7	34
35	The effect of nitrogen plasma treatment on adhesive properties of PEEK. <i>Journal of Adhesion Science and Technology</i> , 2020, 34, 2672-2684.	1.4	6
36	Shear bond strength of three CAD/CAM ceramics treated by Nd:YAG laser and HF. <i>Journal of Adhesion Science and Technology</i> , 2020, 34, 2364-2374.	1.4	0

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37	TDP-1/TDP-43 potentiates human α -Synuclein (HASN) neurodegeneration in <i>Caenorhabditis elegans</i> . <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165876.	1.8	17
38	Preparation of a Flexible Superhydrophobic Surface and Its Wetting Mechanism Based on Fractal Theory. <i>Langmuir</i> , 2020, 36, 8435-8443.	1.6	22
39	Effects of oxygen on the structural evolution of polyacrylonitrile fibers during rapid thermal treatment. <i>RSC Advances</i> , 2020, 10, 6356-6361.	1.7	15
40	GC-Steering: GC-Aware Request Steering and Parallel Reconstruction Optimizations for SSD-Based RAIDs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2020, 39, 4587-4600.	1.9	4
41	SPEECHLESS Speaks Loudly in Stomatal Development. <i>Frontiers in Plant Science</i> , 2020, 11, 114.	1.7	28
42	A highly effective bifunctional catalyst of cobalt selenide nanoparticles embedded nitrogen-doped bamboo-like carbon nanotubes toward hydrogen and oxygen evolution reactions based on metal-organic framework. <i>Journal of Colloid and Interface Science</i> , 2020, 566, 296-303.	5.0	52
43	Prognostic significance of PD-L1 expression on cell surface vimentin-positive circulating tumor cells in gastric cancer patients. <i>Molecular Oncology</i> , 2020, 14, 865-881.	2.1	35
44	Trends in the development of miRNA bioinformatics tools. <i>Briefings in Bioinformatics</i> , 2019, 20, 1836-1852.	3.2	361
45	Transcriptome Informatics. , 2019, , 324-340.		8
46	Mesoporous silica nanoparticles for tissue engineering applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2019, 11, e1573.	3.3	87
47	Cover Image, Volume 11, Issue 6. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2019, 11, e1597.	3.3	0
48	Surprisingly Popular Algorithm-Based Comprehensive Adaptive Topology Learning PSO. , 2019, , .		5
49	Raman study of amorphization in nanocrystalline 3C-SiC irradiated with C ⁺ and He ⁺ ions. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1197-1204.	1.2	21
50	Analyses of a Panel of Transcripts Identified From a Small Sample Size and Construction of RNA Networks in Hepatocellular Carcinoma. <i>Frontiers in Genetics</i> , 2019, 10, 431.	1.1	14
51	Warburg Effects in Cancer and Normal Proliferating Cells: Two Tales of the Same Name. <i>Genomics, Proteomics and Bioinformatics</i> , 2019, 17, 273-286.	3.0	39
52	Effects of LncRNA Lnc-LIF-AS on cell proliferation, migration and invasion in a human cervical cancer cell line. <i>Cytokine</i> , 2019, 120, 165-175.	1.4	6
53	Preparation and characterization of general-purpose gelatin-based co-loading flavonoids nano-core structure. <i>Scientific Reports</i> , 2019, 9, 6365.	1.6	18
54	Identification of potential blood biomarkers for Parkinson's disease by gene expression and DNA methylation data integration analysis. <i>Clinical Epigenetics</i> , 2019, 11, 24.	1.8	63

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55	Multi-Classification of Cancer Samples Based on Co-Expression Analyses. , 2019, , .		2
56	Merging metal organic framework with hollow organosilica nanoparticles as a versatile nanoplatform for cancer theranostics. Acta Biomaterialia, 2019, 86, 406-415.	4.1	59
57	Versatile Nanocarrier Based on Functionalized Mesoporous Silica Nanoparticles to Codeliver Osteogenic Gene and Drug for Enhanced Osteodifferentiation. ACS Biomaterials Science and Engineering, 2019, 5, 710-723.	2.6	25
58	Cognitive behavioral therapy for post-stroke depression: A meta-analysis. Journal of Affective Disorders, 2018, 235, 589-596.	2.0	106
59	Origin of molecular oxygen formation in irradiated borosilicate glasses studied by molecular dynamics simulation. International Journal of Applied Glass Science, 2018, 9, 344-351.	1.0	8
60	Facile Route to the Synthesis of 1,3-Diazahetero-Cycle-Fused [1,2- <i>a</i>]Quinoline Derivatives via Cascade Reactions. ACS Omega, 2018, 3, 1126-1136.	1.6	14
61	Targetable long non-coding RNAs in cancer treatments. Cancer Letters, 2018, 418, 119-124.	3.2	72
62	Comparing two approaches of miR-34a target identification, biotinylated-miRNA pulldown vs miRNA overexpression. RNA Biology, 2018, 15, 55-61.	1.5	27
63	Human amyloid β peptide and tau co-expression impairs behavior and causes specific gene expression changes in <i>Caenorhabditis elegans</i> . Neurobiology of Disease, 2018, 109, 88-101.	2.1	52
64	Genetic analysis for the grain number heterosis of a super-hybrid rice WFYT025 combination using RNA-Seq. Rice, 2018, 11, 37.	1.7	39
65	Transition-Metal-Free Sulfuration/Annulation of Alkenes: Economical Access to Thiophenes Enabled by the Cleavage of Multiple C-H Bonds. Organic Letters, 2018, 20, 7392-7395.	2.4	34
66	Macroporous nanofibrous vascular scaffold with improved biodegradability and smooth muscle cells infiltration prepared by dual phase separation technique. International Journal of Nanomedicine, 2018, Volume 13, 7003-7018.	3.3	27
67	miRNA arm switching identifies novel tumour biomarkers. EBioMedicine, 2018, 38, 37-46.	2.7	31
68	miRToolsGallery: a tag-based and rankable microRNA bioinformatics resources database portal. Database: the Journal of Biological Databases and Curation, 2018, 2018, .	1.4	18
69	Palladium-Catalyzed Domino Heck/Silylation Reaction for the Synthesis of (2-oxoindolin-3-yl)methylsilanes via Trapping of the σ -Alkylpalladium Intermediates with Disilanes. Advanced Synthesis and Catalysis, 2018, 360, 3477-3481.	2.1	17
70	Fabrication of heterogeneous porous bilayered nanofibrous vascular grafts by two-step phase separation technique. Acta Biomaterialia, 2018, 79, 168-181.	4.1	50
71	Temporary conductive hearing loss in early life impairs spatial memory of rats in adulthood. Brain and Behavior, 2018, 8, e01004.	1.0	17
72	Nonuniform impacts of forward suppression on neural responses to preferred stimuli and nonpreferred stimuli in the rat auditory cortex. European Journal of Neuroscience, 2018, 47, 1320-1338.	1.2	2

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73	Constrained large-eddy simulation of supersonic turbulent boundary layer over a compression ramp. <i>Journal of Turbulence</i> , 2017, 18, 781-808.	0.5	8
74	Induction of miR-3648 Upon ER Stress and Its Regulatory Role in Cell Proliferation. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1375.	1.8	37
75	The DEAD-Box RNA Helicase DDX3 Interacts with m ⁶ A RNA Demethylase ALKBH5. <i>Stem Cells International</i> , 2017, 2017, 1-11.	1.2	53
76	Novel tumor biomarker based on isomiR expression profiles. , 2017, , .		0
77	Identification of bladder cancer prognostic biomarkers using an ageing gene-related competitive endogenous RNA network. <i>Oncotarget</i> , 2017, 8, 111742-111753.	0.8	7
78	Repetitive transcranial magnetic stimulation for pain after spinal cord injury: a systematic review and meta-analysis. <i>Journal of Neurosurgical Sciences</i> , 2017, 61, 514-522.	0.3	23
79	NRPB3, the third largest subunit of RNA polymerase II, is essential for stomatal patterning and differentiation in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2016, 143, 1600-11.	1.2	20
80	Is a highly pathogenic avian influenza virus H5N1 fragment recombined in PB1 the key for the epidemic of the novel AIV H7N9 in China, 2013?. <i>International Journal of Infectious Diseases</i> , 2016, 43, 85-89.	1.5	6
81	Evolutionary conservation and function of the human embryonic stem cell specific miR-302/367 cluster. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2015, 16, 83-98.	0.4	20
82	Circular RNAs remain peculiarly unclear in biogenesis and function. <i>Science China Life Sciences</i> , 2015, 58, 616-618.	2.3	20
83	Research on the Lighting Performance of LED Street Lights With Different Color Temperatures. <i>IEEE Photonics Journal</i> , 2015, 7, 1-9.	1.0	52
84	Exon-intron circular RNAs regulate transcription in the nucleus. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 256-264.	3.6	2,330
85	The isolation of an RNA aptamer targeting to p53 protein with single amino acid mutation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10002-10007.	3.3	101
86	Hydrogenated TiO ₂ Branches Coated Mn ₃ O ₄ Nanorods as an Advanced Anode Material for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10348-10355.	4.0	81
87	Essential protein identification based on essential protein-protein interaction prediction by Integrated Edge Weights. <i>Methods</i> , 2015, 83, 51-62.	1.9	25
88	Circular RNAs in Eukaryotic Cells. <i>Current Genomics</i> , 2015, 16, 312-318.	0.7	122
89	Secure network coding for wireless routing. , 2014, , .		1
90	Hierarchical core-shell Fe ₂ O ₃ @C nanotubes as a high-rate and long-life anode for advanced lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3439-3444.	5.2	55

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91	Facile synthesis of hierarchically porous NiO micro-tubes as advanced anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16847-16850.	5.2	73
92	The role of low levels of fullerene C60 nanocrystals on enhanced learning and memory of rats through persistent CaMKII activation. <i>Biomaterials</i> , 2014, 35, 9269-9279.	5.7	16
93	General synthesis of hollow MnO ₂ , Mn ₃ O ₄ and MnO nanospheres as superior anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17421-17426.	5.2	213
94	A construction strategy for a tunnel with big deformation. <i>Journal of Modern Transportation</i> , 2013, 21, 86-94.	2.5	1
95	Controlled Growth of Porous Fe ₂ O ₃ Branches on MnO ₂ Nanorods for Excellent Performance in Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 4049-4056.	7.8	181
96	Effect of different carbon sources on the electrochemical properties of rod-like LiMnPO ₄ -C nanocomposites. <i>RSC Advances</i> , 2013, 3, 6847.	1.7	37
97	Environmental RNA interference in animals. <i>Science Bulletin</i> , 2013, 58, 4418-4425.	1.7	4
98	A Computational Systems Biology Study for Understanding Salt Tolerance Mechanism in Rice. <i>PLoS ONE</i> , 2013, 8, e64929.	1.1	27
99	Silhouette Index Supervised Affinity Propagation Clustering. <i>Journal of Bionanoscience</i> , 2013, 7, 447-452.	0.4	1
100	Improved Filter Feature Selection Methods by Samples Localization. <i>Journal of Bionanoscience</i> , 2013, 7, 371-377.	0.4	0
101	An Improved Sum of Edge Clustering Coefficient Method for Essential Protein Identification. <i>Journal of Bionanoscience</i> , 2013, 7, 386-390.	0.4	0
102	Identifying Intronic miRNA and mRNA Regulatory Network in Renal Cell Carcinoma by Paired Expression Data. <i>Journal of Bionanoscience</i> , 2013, 7, 551-559.	0.4	1
103	Synchronization stability of a distributed hysteresis controlled system. , 2012, , .		1
104	Performance Analysis for Optical OFDM Transmission in Short-Range IM/DD Systems. <i>Journal of Lightwave Technology</i> , 2012, 30, 974-983.	2.7	80
105	A Tone Reservation-Based Optical OFDM System for Short-Range IM/DD Transmission. <i>Journal of Lightwave Technology</i> , 2011, 29, 3824-3833.	2.7	1
106	Linear programming for tone reservation based IM/DD optical OFDM communications. , 2011, , .		0
107	Synchronization analysis of the supermarket refrigeration system. , 2009, , .		3
108	Diversity Combining for Asymmetrically Clipped Optical OFDM in IM/DD Channels. , 2009, , .		47

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109	Synthesis of a novel star polymer consisting of a dendritic polyamidoamine core and polystyrene arms and its self-assembly to form large multimolecular micelles. Journal of Applied Polymer Science, 2008, 109, 1039-1047.	1.3	8
110	Research and design of an executable modeling language based on MOF. , 2008, , .		2
111	Microwave Absorbing Properties of Amorphous FeCuNbSiB Microwires Multilayer Composites. , 2007, , .		0
112	Indoor thermal comfort studies based on physiological parameter measurement and questionnaire investigation. Central South University, 2006, 13, 404-407.	0.5	7