

Liang Chen

List of Publications by Year in descending order

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107
papers

4,162
citations

186265
28
h-index

123424
61
g-index

107
all docs

107
docs citations

107
times ranked

5491
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion sieving in graphene oxide membranes via cationic control of interlayer spacing. <i>Nature</i> , 2017, 550, 380-383.	27.8	1,171
2	Toxic effects of fluoride on organisms. <i>Life Sciences</i> , 2018, 198, 18-24.	4.3	187
3	Adsorption of Antibiotics on Graphene and Biochar in Aqueous Solutions Induced by π - π Interactions. <i>Scientific Reports</i> , 2016, 6, 31920.	3.3	185
4	Graphene oxideâ€“DNA based sensors. <i>Biosensors and Bioelectronics</i> , 2014, 60, 22-29.	10.1	178
5	Trial of Upadacitinib and Adalimumab for Psoriatic Arthritis. <i>New England Journal of Medicine</i> , 2021, 384, 1227-1239.	27.0	143
6	Two-dimensional Naâ€“Cl crystals of unconventional stoichiometries on graphene surface from dilute solution at ambient conditions. <i>Nature Chemistry</i> , 2018, 10, 776-779.	13.6	116
7	Analysis of mulberry leaf components in the treatment of diabetes using network pharmacology. <i>European Journal of Pharmacology</i> , 2018, 833, 50-62.	3.5	107
8	Interaction of Graphene and its Oxide with Lipid Membrane: A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6225-6231.	3.1	101
9	The Cytotoxicity Effect of Resveratrol: Cell Cycle Arrest and Induced Apoptosis of Breast Cancer 4T1 Cells. <i>Toxins</i> , 2019, 11, 731.	3.4	99
10	Exact vector multipole and vortex solitons in the media with spatially modulated cubicâ€“quintic nonlinearity. <i>Nonlinear Dynamics</i> , 2017, 90, 1269-1275.	5.2	94
11	Vector spatiotemporal localized structures in $(3\sqrt{3} + 1)$ -dimensional strongly nonlocal nonlinear media. <i>Nonlinear Dynamics</i> , 2016, 86, 999-1005.	5.2	83
12	The Emerging Role of Circular RNAs in Hepatocellular Carcinoma. <i>Journal of Cancer</i> , 2018, 9, 1548-1559.	2.5	73
13	Raman and infrared-active modes in MgO nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 852-855.	2.7	67
14	Rogue wave and combined breather with repeatedly excited behaviors in the dispersion/diffraction decreasing medium. <i>Nonlinear Dynamics</i> , 2017, 87, 67-73.	5.2	65
15	Exploration on the mechanism of DNA adsorption on graphene and graphene oxide via molecular simulations. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 275402.	2.8	64
16	Remarkable Antibacterial Activity of Reduced Graphene Oxide Functionalized by Copper Ions. <i>Advanced Functional Materials</i> , 2021, 31, 2008018.	14.9	60
17	Comparative proteomic analysis reveals that caspase-1 and serine protease may be involved in silkworm resistance to Bombyx mori nuclear polyhedrosis virus. <i>Journal of Proteomics</i> , 2012, 75, 3630-3638.	2.4	56
18	Proteomics, metabolomics and metagenomics for type 2 diabetes and its complications. <i>Life Sciences</i> , 2018, 212, 194-202.	4.3	51

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19	Controllable reduction of graphene oxide by electron-beam irradiation. RSC Advances, 2019, 9, 3597-3604.	3.6	43
20	Precise control of the interlayer spacing between graphene sheets by hydrated cations. Physical Chemistry Chemical Physics, 2019, 21, 7623-7629.	2.8	41
21	Controlling interlayer spacings of graphene oxide membranes with cationic for precise sieving of mono-/multi-valent ions. Separation and Purification Technology, 2020, 241, 116738.	7.9	41
22	Network pharmacology-based analysis on bioactive anti-diabetic compounds in <i>Potentilla discolor</i> bunge. Journal of Ethnopharmacology, 2019, 241, 111905.	4.1	40
23	Molecular dynamics simulations of the adsorption of DNA segments onto graphene oxide. Journal Physics D: Applied Physics, 2014, 47, 505401.	2.8	39
24	Comparative proteomic analysis of indica and japonica rice varieties. Genetics and Molecular Biology, 2014, 37, 652-661.	1.3	36
25	Microarray analysis of gene expression profile in resistant and susceptible <i>Bombyx mori</i> strains reveals resistance-related genes to nucleopolyhedrovirus. Genomics, 2013, 101, 256-262.	2.9	32
26	Selective reduction of epoxy groups in graphene oxide membrane for ultrahigh water permeation. Carbon, 2021, 172, 228-235.	10.3	32
27	Ultrahigh water permeation with a high multivalent metal ion rejection rate through graphene oxide membranes. Journal of Materials Chemistry A, 2021, 9, 10672-10677.	10.3	31
28	Localized modes of the $(n+1)$ -dimensional Schrödinger equation with power-law nonlinearities in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mi mathvariant="script" \rangle PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -symmetric potentials. Communications in Nonlinear Science and Numerical Simulation, 2017, 43, 239-250.	3.3	30
29	DFT calculations of vibrational spectra and nonlinear optical properties for MgO nanotube clusters. Computational and Theoretical Chemistry, 2008, 863, 55-59.	1.5	29
30	Treatment of Diabetes Mellitus Using iPS Cells and Spice Polyphenols. Journal of Diabetes Research, 2017, 2017, 1-11.	2.3	29
31	Network Pharmacology-Based Dissection of the Anti-diabetic Mechanism of <i>Lobelia chinensis</i> . Frontiers in Pharmacology, 2020, 11, 347.	3.5	29
32	Silver nanoparticle toxicity in silkworms: Omics technologies for a mechanistic understanding. Ecotoxicology and Environmental Safety, 2019, 172, 388-395.	6.0	28
33	Effect of physical and chemical structures of graphene oxide on water permeation in graphene oxide membranes. Applied Surface Science, 2020, 520, 146308.	6.1	28
34	Realizing ultrahigh nanofiltration performance based on small flake reduced graphene oxide membranes. Desalination, 2022, 528, 115601.	8.2	28
35	Effect of the intramolecular hydrogen bond on the spectral and optical properties in chitosan oligosaccharide. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 69, 237-242.	2.7	27
36	Display of <i>Bombyx mori</i> Alcohol Dehydrogenases on the <i>Bacillus subtilis</i> Spore Surface to Enhance Enzymatic Activity under Adverse Conditions. PLoS ONE, 2011, 6, e21454.	2.5	26

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37	Robust reduced graphene oxide membranes with high water permeance enhanced by K ⁺ modification. <i>Journal of Membrane Science</i> , 2021, 635, 119437.	8.2	25
38	Display of Human Proinsulin on the <i>Bacillus subtilis</i> Spore Surface for Oral Administration. <i>Current Microbiology</i> , 2013, 67, 1-8.	2.2	24
39	A Facile Preparation of Multicolor Carbon Dots. <i>Nanoscale Research Letters</i> , 2022, 17, 32.	5.7	24
40	The toxicity of NaF on BmN cells and a comparative proteomics approach to identify protein expression changes in cells under NaF-stress. <i>Journal of Hazardous Materials</i> , 2015, 286, 624-631.	12.4	22
41	The interaction between baculoviruses and their insect hosts. <i>Developmental and Comparative Immunology</i> , 2018, 83, 114-123.	2.3	22
42	Structural and electronic properties of hydrated MgO nanotube clusters. <i>Computational and Theoretical Chemistry</i> , 2009, 900, 33-36.	1.5	21
43	Mulberry Leaf Regulates Differentially Expressed Genes in Diabetic Mice Liver Based on RNA-Seq Analysis. <i>Frontiers in Physiology</i> , 2018, 9, 1051.	2.8	19
44	Surface Display of Human Serum Albumin on <i>Bacillus subtilis</i> Spores for Oral Administration. <i>Current Microbiology</i> , 2012, 64, 545-551.	2.2	18
45	Directional isolation of ethanol-tolerant acetic acid bacteria from industrial fermented vinegar. <i>European Food Research and Technology</i> , 2013, 236, 573-578.	3.3	18
46	Effects of cationic concentration on controlling the interlayer spacings for highly effective ion rejection via graphene oxide membranes. <i>Chemical Communications</i> , 2020, 56, 2743-2746.	4.1	18
47	Ultrahigh water permeance of a reduced graphene oxide nanofiltration membrane for multivalent metal ion rejection. <i>Chemical Communications</i> , 2020, 56, 15068-15071.	4.1	17
48	Antioxidative Stress Mechanisms behind Resveratrol: A Multidimensional Analysis. <i>Journal of Food Quality</i> , 2021, 2021, 1-12.	2.6	17
49	Size dependent structural and electronic properties of MgO nanotube clusters. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 349-356.	2.0	16
50	Water-Mediated Spontaneously Dynamic Oxygen Migration on Graphene Oxide with Structural Adaptivity for Biomolecule Adsorption*. <i>Chinese Physics Letters</i> , 2020, 37, 066803.	3.3	16
51	Novel 2D CaCl ₂ crystals with metallicity, room-temperature ferromagnetism, heterojunction, piezoelectricity-like property and monovalent calcium ions. <i>National Science Review</i> , 2021, 8, nwaa274.	9.5	16
52	Encapsulation and Release of Drug Molecule Pregabalin Based on Ultrashort Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9567-9574.	3.1	15
53	Mechanism analysis of toxicity of sodium sulfite to human hepatocytes L02. <i>Molecular and Cellular Biochemistry</i> , 2020, 473, 25-37.	3.1	15
54	Bio-inspired graphene oxide-amino acid cross-linked framework membrane trigger high water permeance and high metal ions rejection. <i>Journal of Membrane Science</i> , 2022, 659, 120745.	8.2	15

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55	Selective Transport through the Ultrashort Carbon Nanotubes Embedded in Lipid Bilayers. Journal of Physical Chemistry C, 2018, 122, 27681-27688.	3.1	14
56	Ultrahigh permeance of a chemical cross-linked graphene oxide nanofiltration membrane enhanced by cation- π interaction. RSC Advances, 2019, 9, 40397-40403.	3.6	14
57	Molecular insights into the dispersion stability of graphene oxide in mixed solvents: Theoretical simulations and experimental verification. Journal of Colloid and Interface Science, 2020, 571, 109-117.	9.4	14
58	“On-off-on” fluorescence switch of graphene quantum dots: A cationic control strategy. Applied Surface Science, 2021, 546, 149110.	6.1	13
59	Study on the interaction between catechin and cholesterol by the density functional theory. Open Chemistry, 2020, 18, 357-368.	1.9	13
60	RNA-Seq analysis of the pathogenesis of STZ-induced male diabetic mouse liver. Journal of Diabetes and Its Complications, 2020, 34, 107444.	2.3	12
61	Ultrathin and ultradense aligned carbon nanotube membranes for water purification with enhanced rejection performance. Desalination, 2020, 494, 114671.	8.2	12
62	Surface display of Acetobacter pasteurianus AdhA on Bacillus subtilis spores to enhance ethanol tolerance for liquor industrial potential. European Food Research and Technology, 2014, 238, 285-293.	3.3	11
63	Electronic structure analysis of glycine oligopeptides and glycine-tryptophan oligopeptides. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 57, 63-68.	2.7	11
64	Crown ethers in hydrogenated graphene. Physical Chemistry Chemical Physics, 2021, 23, 18983-18989.	2.8	11
65	Unexpected Ion Sieving in Graphene Oxide Membranes. Journal of Physical Chemistry C, 2022, 126, 9572-9579.	3.1	11
66	Bm65 is Essential for the Propagation of Bombyx mori Nucleopolyhedrovirus. Current Microbiology, 2013, 66, 22-29.	2.2	10
67	Surface Display of Human Growth Hormone on Bacillus subtilis Spores for Oral Administration. Current Microbiology, 2014, 68, 463-471.	2.2	9
68	Comparative proteomic analysis reveals the suppressive effects of dietary high glucose on the midgut growth of silkworm. Journal of Proteomics, 2014, 108, 124-132.	2.4	9
69	Constitutive Expresser of Pathogenesis Related Genes 1 Is Required for Pavement Cell Morphogenesis in Arabidopsis. PLoS ONE, 2015, 10, e0133249.	2.5	9
70	Proteomic Study on the New Potential Mechanism and Biomarkers of Diabetes. Proteomics - Clinical Applications, 2019, 13, e1800043.	1.6	9
71	Carbon Nanotubes Translocation through a Lipid Membrane and Transporting Small Hydrophobic and Hydrophilic Molecules. Applied Sciences (Switzerland), 2019, 9, 4271.	2.5	9
72	Effects of interlayer spacing and oxidation degree of graphene oxide nanosheets on water permeation: a molecular dynamics study. Journal of Molecular Modeling, 2022, 28, 57.	1.8	9

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73	Studies of the Anti-Diabetic Mechanism of Pueraria lobata Based on Metabolomics and Network Pharmacology. Processes, 2021, 9, 1245.	2.8	8
74	Comparative Proteomic Analysis of Midgut Proteins From Male and Female Bombyx mori (Lepidoptera:) Tj ETQq0 0.0.rgBT /Oxerlock 10	1.5	7
75	Caspase-1 from the silkworm, <i>Bombyx mori,</i> is involved in <i>Bombyx mori</i> nucleopolyhedrovirus infection. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2017, 72, 147-153.	1.4	7
76	Silver effects on silkworm, <i>Bombyx mori</i>. Journal of Toxicological Sciences, 2018, 43, 697-709.	1.5	7
77	Fullerene-intercalated graphene nanocontainers for gas storage and sustained release. Journal of Molecular Modeling, 2020, 26, 166.	1.8	7
78	Tuning the Interlayer Spacings in Dry Graphene Oxide Membranes via Ions. Chemistry - an Asian Journal, 2020, 15, 2346-2349.	3.3	7
79	Quartz Crystal Microbalance Humidity Sensors Based on Structured Graphene Oxide Membranes with Magnesium Ions: Design, Mechanism and Performance. Membranes, 2022, 12, 125.	3.0	7
80	Effective regulation of the electronic properties of a biphenylene network by hydrogenation and halogenation. RSC Advances, 2022, 12, 20088-20095.	3.6	7
81	Preparation of graphene oxides with different sheet sizes by temperature control. Chinese Physics B, 2017, 26, 106101.	1.4	6
82	The toxic effect of sodium fluoride on Spodoptera frugiperda 9 cells and differential protein analysis following NaF treatment of cells. Environmental Pollution, 2018, 236, 313-323.	7.5	6
83	In situ <scp>TEM</scp> study on electron irradiation effects in SiO₂âNa₂OâB₂O₃ glasses. International Journal of Applied Glass Science, 2019, 10, 220-227.	2.0	6
84	Enhanced Separation Performance of Radioactive Cesium and Cobalt in Graphene Oxide Membrane via Cationic Control. Langmuir, 2022, 38, 1995-2002.	3.5	6
85	Graphene quantum dots via ion modification for improving photoluminescence stability in aqueous solution with heavy metal ions. Applied Surface Science, 2022, 593, 153367.	6.1	6
86	Fast Reduced Graphene-Based Membranes with High Desalination Performance. Membranes, 2021, 11, 846.	3.0	5
87	Unexpected Selective Absorption of Lithium in Thermally Reduced Graphene Oxide Membranes. Chinese Physics Letters, 2021, 38, 116802.	3.3	5
88	Effect of polar groups on Raman spectrum of one dimension SiO2 nanowires. Computational and Theoretical Chemistry, 2008, 851, 35-39.	1.5	4
89	Foreign Protein Detection in Transgenic Rice Revealed by Comparative Proteomic Analysis. Crop Science, 2015, 55, 2225-2233.	1.8	4
90	Cytotoxicity and changes in gene expression under aluminium potassium sulfate on Spodoptera frugiperda 9 cells. Ecotoxicology, 2021, 30, 2056-2070.	2.4	4

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91	An investigation and evaluation on species and characteristics of pathogenic microorganisms in Chinese local hospital settings. <i>Microbial Pathogenesis</i> , 2015, 89, 154-160.	2.9	3
92	Proteomic response of the rat liver in differential swimming modes. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2018, 45, 581-590.	1.9	3
93	Genomics and proteomics combined analysis revealed the toxicity response of silkworm <i>Bombyx mori</i> to the environmental pathogen <i>Bacillus cereus</i> ZJ-4. <i>Ecotoxicology and Environmental Safety</i> , 2021, 222, 112467.	6.0	3
94	Ultrahigh Water Permeance of Reduced Graphene Oxide Membrane for Radioactive Liquid Waste Treatment. <i>Membranes</i> , 2021, 11, 809.	3.0	3
95	Pure Graphene Oxide Vertical p-n Junction with Remarkable Rectification Effect. <i>Molecules</i> , 2021, 26, 6849.	3.8	3
96	Graphitic-like Hexagonal Phase of Alkali Halides in Quasi-Two-Dimensional Confined Space under Ambient Conditions. <i>ACS Nano</i> , 2022, 16, 2046-2053.	14.6	3
97	Mulberry Leaf and Radix Astragali Regulates Differentially Expressed Genes and Proteins in the Streptozotocin-Induced Diabetic Mice Liver. <i>Processes</i> , 2021, 9, 1898.	2.8	2
98	Proteomic profiling of liver from <i>Elaphe taeniura</i> , a common snake in eastern and southeastern Asia. <i>Genetics and Molecular Biology</i> , 2013, 36, 438-447.	1.3	1
99	Molecular Cloning and Characterization of a <i>Bombyx mori</i> Gene Encoding the Transcription Factor Atonal. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2014, 69, 155-164.	1.4	1
100	Selective transport properties of graphene oxide membranes for various cations observed in situ using quartz crystal microbalance. <i>Applied Surface Science</i> , 2021, 541, 148502.	6.1	1
101	Tuning crystal structure of potassium dihydrogen phosphate at ambient conditions. <i>Physical Review Materials</i> , 2021, 5, .	2.4	1
102	Comparative transcriptome and proteome reveal synergistic functions of differentially expressed genes and proteins implicated in an overdominant silkworm heterosis of increased silk yield. <i>Insect Molecular Biology</i> , 2022, 31, 551-567.	2.0	1
103	BmNPV Orf 65 (Bm65) Is Identified as an Endonuclease Directly Facilitating UV-Induced DNA Damage Repair. <i>Journal of Virology</i> , 0, , .	3.4	1
104	Regional climate responses to the land use and land cover change in Heihe River Basin, China. , 2010, , .		0
105	Notice of Retraction: Primary Study of the Levels of PBDEs, PCBs, OCPs, and PAHs in Fish and Shellfish in Taihu Lake, China. , 2011, , .		0
106	Spatiotemporal Expression Profile of the Pumilio Gene in the Embryonic Development of Silkworm. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2014, 69, 317-324.	1.4	0
107	Manipulating the Flipping of Water Dipoles in Carbon Nanotubes [*] . <i>Chinese Physics Letters</i> , 2019, 36, 103101.	3.3	0