

Zhijun Chen

List of Publications by Year in descending order

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108
papers

3,704
citations

101543

36
h-index

149698

56
g-index

112
all docs

112
docs citations

112
times ranked

4323
citing authors

#	ARTICLE	IF	CITATIONS
1	Multipurpose Solar-Thermal Hydrogel Platform for Desalination of Seawater and Subsequent Collection of Atmospheric Water. <i>ACS ES&T Water</i> , 2023, 3, 1740-1746.	4.6	8
2	Lignin: a sustainable photothermal block for smart elastomers. <i>Green Chemistry</i> , 2022, 24, 823-836.	9.0	64
3	Occurrence and distribution of cyclic-alkane-consuming psychrophilic bacteria in the Yellow Sea and East China Sea. <i>Journal of Hazardous Materials</i> , 2022, 427, 128129.	12.4	7
4	Developing Flexible Quinacridoneâ€Derivativesâ€Based Photothermal Evaporaters for Solar Steam and Thermoelectric Power Generation. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	17
5	Donorâ€Acceptor Molecule Based Highâ€Performance Photothermal Organic Material for Efficient Water Purification and Electricity Generation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	34
6	Exploring the Circular Polarization Capacity from Chiral Cellulose Nanocrystal Films for a Photoâ€Controlled Chiral Helix of Supramolecular Polymers. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	26
7	Boosting solar-thermal-electric conversion of thermoelectrochemical cells by construction of a carboxymethylcellulose-interpenetrated polyacrylamide network. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7785-7791.	10.3	7
8	Sustainable Afterglow Roomâ€Temperature Phosphorescence Emission Materials Generated Using Natural Phenolics. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	7
9	Sustainable Afterglow Roomâ€Temperature Phosphorescence Emission Materials Generated Using Natural Phenolics. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	28
10	Fabrication of ZnO@Plant Polyphenols/Cellulose as Active Food Packaging and Its Enhanced Antibacterial Activity. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5218.	4.1	6
11	The Surface Structure Origin of Carbon Fiber with Enhanced Electrothermal Properties Prepared by Modification of Graphene Coating. <i>Journal of Electronic Materials</i> , 2022, 51, 4288-4298.	2.2	3
12	Design of a ZnO@Plant Polyphenol/Poly(vinyl alcohol) Film via Plant Polyphenol-Induced Cross-Linking and Its Enhanced UV Shielding and Antibacterial Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 9369-9380.	6.7	10
13	Woodâ€Derived Carbon Materials and Lightâ€Emitting Materials. <i>Advanced Materials</i> , 2021, 33, e2000596.	21.0	75
14	Seeking brightness from nature: Sustainable carbon dots-based AIEgens with tunable emission wavelength from natural rosin. <i>Chemical Engineering Journal</i> , 2021, 413, 127457.	12.7	34
15	One-step synthesis of self-quenching-resistant biomass-based solid-state fluorescent carbon dots with high yield for white lighting emitting diodes. <i>Dyes and Pigments</i> , 2021, 185, 108953.	3.7	33
16	Simple, green, ultrasound-assisted preparation of novel coreâ€shell microcapsules from octyl methoxycinnamate and oligomeric proanthocyanidins for UV-stable sunscreen. <i>RSC Advances</i> , 2021, 11, 6374-6382.	3.6	7
17	Integrating photon up- and down-conversion to produce efficient light-harvesting materials for enhancing natural photosynthesis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24308-24314.	10.3	13
18	Melanin-Inspired Design: Preparing Sustainable Photothermal Materials from Lignin for Energy Generation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7600-7607.	8.0	87

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19	Distinct Sustainable Carbon Nanodots Enable Free Radical Photopolymerization, Photo-ATRP and Photo-CuAAC Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10983-10991.	13.8	44
20	Sustainable Carbon Dot-Based AIEgens: Promising Light-Harvesting Materials for Enhancing Photosynthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4139-4145.	6.7	35
21	Lignin Nanoparticles: Promising Sustainable Building Blocks of Photoluminescent and Haze Films for Improving Efficiency of Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33536-33545.	8.0	13
22	Solar-powered "pump" for uranium recovery from seawater. <i>Chemical Engineering Journal</i> , 2021, 416, 129486.	12.7	27
23	Quantitative Förster Resonance Energy Transfer: Efficient Light Harvesting for Sequential Photo-Thermo-Electric Conversion. <i>Small</i> , 2021, 17, e2103172.	10.0	13
24	The Stability of Diphosphino-Boryl Pincer Backbone: PBP to POP Ligand Hydrolysis. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2489-2494.	3.3	11
25	Sensitive Mechanofluorochromic Carbon Dot-Based AIEgens: Promising Reporting Components for Self-Sensing Plastics. <i>Advanced Optical Materials</i> , 2021, 9, 2101092.	7.3	14
26	Experimental and first-principle computational exploration on biomass cellulose/magnesium hydroxide composite: Local structure, interfacial interaction and antibacterial property. <i>International Journal of Biological Macromolecules</i> , 2021, 191, 584-590.	7.5	2
27	Composite films with excellent mechanical, antioxidant and UV-shielding properties prepared from oligomeric proanthocyanidin nanospheres and poly(vinyl alcohol). <i>Industrial Crops and Products</i> , 2021, 172, 114054.	5.2	7
28	A ratiometric fluorescent hydrogel of controlled thickness prepared continuously using microtomy for the detection and removal of Hg(II). <i>Chemical Engineering Journal</i> , 2021, 426, 131296.	12.7	29
29	Multinuclear transition metal-containing polyoxometalates constructed from Nb/W mixed-addendum precursors: synthesis, structures and catalytic performance. <i>Dalton Transactions</i> , 2021, 50, 8690-8695.	3.3	4
30	Few-Layered Metal-Organic Framework Nanosheets as Catalysts for the Synthesis of 2,3-Dihydroquinazolinone and Propargylamines. <i>ACS Applied Nano Materials</i> , 2021, 4, 12108-12118.	5.0	3
31	Phloretin loaded porous starch (Ph-PS): Preparation, characterization, in vitro release and protective effect against oxidative stress in vivo zebrafish model. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 2047-2053.	7.5	4
32	Which Type of Pincer Complex Is Thermodynamically More Stable? Understanding the Structures and Relative Bond Strengths of Group 10 Metal Complexes Supported by Benzene-Based PYCYP Pincer Ligands. <i>Inorganic Chemistry</i> , 2021, 60, 18924-18937.	4.0	10
33	Kohlenstoff-Nanopunkte als Photokatalysatoren für die freie radikalische und ATRP-basierte radikalische Photopolymerisation mit blauen LEDs. <i>Angewandte Chemie</i> , 2020, 132, 3192-3197.	2.0	16
34	Carbon Dots as a Promising Green Photocatalyst for Free Radical and ATRP-Based Radical Photopolymerization with Blue LEDs. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3166-3171.	13.8	95
35	Natural phenolic compound-iron complexes: sustainable solar absorbers for wood-based solar steam generation devices. <i>RSC Advances</i> , 2020, 10, 1152-1158.	3.6	28
36	Nature-inspired design: p-toluenesulfonic acid-assisted hydrothermally engineered wood for solar steam generation. <i>Nano Energy</i> , 2020, 78, 105322.	16.0	61

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37	Depolymerization of proanthocyanidins and application exploration in the field of preparation of flexible materials. <i>New Journal of Chemistry</i> , 2020, 44, 19323-19336.	2.8	5
38	Seeking Answers from Tradition: Facile Preparation of Durable Adhesive Hydrogel Using Natural Quercetin. <i>IScience</i> , 2020, 23, 101342.	4.1	4
39	A composite carbon-based solid acid-supported palladium catalyst (Pd/C-SO ₃ H) for hydrogenolysis of plant-derived polymeric proanthocyanidins. <i>RSC Advances</i> , 2020, 10, 20665-20675.	3.6	7
40	Designing Hybrid Chiral Photonic Films with Circularly Polarized Room-Temperature Phosphorescence. <i>ACS Nano</i> , 2020, 14, 11130-11139.	14.6	130
41	Quantitative Analysis of Solubility Parameters and Surface Properties of Larch Bark Proanthocyanidins. <i>Polymers</i> , 2020, 12, 2800.	4.5	8
42	Preparation of Biomass-Based Carbon Dots with Aggregation Luminescence Enhancement from Hydrogenated Rosin for Biological Imaging and Detection of Fe ³⁺ . <i>ACS Omega</i> , 2020, 5, 11842-11848.	3.5	25
43	A Structure Comparison of Ni(II) Complexes Supported by PNCNP and POCOP Pincer Ligands. <i>ChemistrySelect</i> , 2020, 5, 5205-5209.	1.5	3
44	Engineering a ratiometric fluorescent sensor membrane containing carbon dots for efficient fluoride detection and removal. <i>Chemical Engineering Journal</i> , 2020, 399, 125741.	12.7	41
45	Fluorescent Poly(vinyl alcohol) Films Containing Chlorogenic Acid Carbon Nanodots for Food Monitoring. <i>ACS Applied Nano Materials</i> , 2020, 3, 7611-7620.	5.0	23
46	Biomass-Based Polymer Nanoparticles With Aggregation-Induced Fluorescence Emission for Cell Imaging and Detection of Fe ³⁺ Ions. <i>Frontiers in Chemistry</i> , 2020, 8, 563.	3.6	6
47	Near-Infrared-Detached Adhesion Enabled by Upconverting Nanoparticles. <i>IScience</i> , 2020, 23, 100832.	4.1	12
48	Simultaneous removal of Pb ²⁺ , Cu ²⁺ and Cd ²⁺ ions from wastewater using hierarchical porous polyacrylic acid grafted with lignin. <i>Journal of Hazardous Materials</i> , 2020, 392, 122208.	12.4	44
49	Irregular aggregation-induced emission luminogens. <i>Coordination Chemistry Reviews</i> , 2020, 418, 213358.	18.8	44
50	Cellulose Spacer Strategy: Anti-Aggregation-Caused Quenching Membrane for Mercury Ion Detection and Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15182-15189.	6.7	25
51	Deep Eutectic Solvent-Assisted In Situ Wood Delignification: A Promising Strategy To Enhance the Efficiency of Wood-Based Solar Steam Generation Devices. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26032-26037.	8.0	97
52	Biomass-derived solar-to-thermal materials: promising energy absorbers to convert light to mechanical motion. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4002-4008.	10.3	32
53	Clustering-Triggered Emission of Carboxymethylated Nanocellulose. <i>Frontiers in Chemistry</i> , 2019, 7, 447.	3.6	55
54	Tunable Upconverted Circularly Polarized Luminescence in Cellulose Nanocrystal Based Chiral Photonic Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23512-23519.	8.0	79

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55	Molecular Glue Strategy: Large-Scale Conversion of Clustering-Induced Emission Luminogen to Carbon Dots. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19301-19307.	8.0	44
56	Near-Infrared Light Driven Photopolymerization Based On Photon Upconversion. <i>ChemPhotoChem</i> , 2019, 3, 1077-1083.	3.0	33
57	Assembling semiconductor quantum dots in hierarchical photonic cellulose nanocrystal films: circularly polarized luminescent nanomaterials as optical coding labels. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13794-13802.	5.5	79
58	Ultra-small amorphous carbon dots: preparation, photoluminescence properties, and their application as TiO ₂ photosensitizers. <i>Journal of Materials Science</i> , 2019, 54, 5280-5293.	3.7	24
59	A new drug carrier with oxygen generation function for modulating tumor hypoxia microenvironment in cancer chemotherapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 173, 335-345.	5.0	26
60	Multifunctional chiral nematic cellulose nanocrystals/glycerol structural colored nanocomposites for intelligent responsive films, photonic inks and iridescent coatings. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5391-5400.	5.5	103
61	Toughness and crystallization enhancement in wood fiber-reinforced polypropylene composite through controlling matrix nucleation. <i>Journal of Materials Science</i> , 2018, 53, 6542-6551.	3.7	26
62	Enzymatic biocatalysis of bamboo chemical constituents to impart antimold properties. <i>Wood Science and Technology</i> , 2018, 52, 619-635.	3.2	13
63	Preparation of a Smart and Portable Film for in Situ Sensing of Iron Microcorrosion. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4981-4985.	8.0	6
64	Seeking Brightness from Nature: J-Aggregation-Induced Emission in Cellulolytic Enzyme Lignin Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3169-3175.	6.7	80
65	Novel Quercetin Aggregation-Induced Emission Luminogen (AIEgen) with Excited-State Intramolecular Proton Transfer for In Vivo Bioimaging. <i>Advanced Functional Materials</i> , 2018, 28, 1706196.	14.9	100
66	Seeking value from biomass materials: preparation of coffee bean shell-derived fluorescent carbon dots via molecular aggregation for antioxidation and bioimaging applications. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1269-1275.	5.9	62
67	Sustainable Use of Coffee Husks For Reinforcing Polyethylene Composites. <i>Journal of Polymers and the Environment</i> , 2018, 26, 48-58.	5.0	49
68	Natural-Product-Derived Carbon Dots: From Natural Products to Functional Materials. <i>ChemSusChem</i> , 2018, 11, 11-24.	6.8	278
69	Screening, Synthesis, and QSAR Research on Cinnamaldehyde-Amino Acid Schiff Base Compounds as Antibacterial Agents. <i>Molecules</i> , 2018, 23, 3027.	3.8	12
70	A nanocomposite probe consisting of carbon quantum dots and phosphotungstic acid for fluorometric determination of chromate(VI) with improved selectivity. <i>Mikrochimica Acta</i> , 2018, 185, 470.	5.0	20
71	Natural Quercetin AIEgen Composite Film with Antibacterial and Antioxidant Properties for in Situ Sensing of Al ³⁺ Residues in Food, Detecting Food Spoilage, and Extending Food Storage Times. <i>ACS Applied Bio Materials</i> , 2018, 1, 636-642.	4.6	39
72	Preparation and Characterization of Antioxidative and UV-Protective Larch Bark Tannin/PVA Composite Membranes. <i>Molecules</i> , 2018, 23, 2073.	3.8	45

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73	Wound Dressings Based on Chitosan-Dialdehyde Cellulose Nanocrystals-Silver Nanoparticles: Mechanical Strength, Antibacterial Activity and Cytotoxicity. <i>Polymers</i> , 2018, 10, 673.	4.5	40
74	Preparation of Carbon Dots for Cellular Imaging by the Molecular Aggregation of Cellulolytic Enzyme Lignin. <i>Langmuir</i> , 2017, 33, 5786-5795.	3.5	75
75	Reactivity improvement of cellulolytic enzyme lignin via mild hydrothermal modification. <i>Bioorganic Chemistry</i> , 2017, 75, 173-180.	4.1	3
76	Upconversion Nanocarriers Encapsulated with Photoactivatable Ru Complexes for Near-Infrared Light-Regulated Enzyme Activity. <i>Small</i> , 2017, 13, 1700997.	10.0	40
77	Design of cinnamaldehyde amino acid Schiff base compounds based on the quantitative structure-activity relationship. <i>Royal Society Open Science</i> , 2017, 4, 170516.	2.4	9
78	Upconversion Nanoparticle-Assisted Radical Polymerization at $\lambda = 974$ nm and the Generation of Acidic Cations. <i>ChemPhotoChem</i> , 2017, 1, 499-503.	3.0	45
79	One-step hydrothermal synthesis of fluorescent nanocrystalline cellulose/carbon dot hydrogels. <i>Carbohydrate Polymers</i> , 2017, 175, 7-17.	10.2	54
80	Characterization of Type-II Acetylated Cellulose Nanocrystals with Various Degree of Substitution and Its Compatibility in PLA Films. <i>Polymers</i> , 2017, 9, 346.	4.5	36
81	Quantitative Structure Activity Relationship of Cinnamaldehyde Compounds against Wood-Decaying Fungi. <i>Molecules</i> , 2016, 21, 1563.	3.8	8
82	Lichtgesteuerte Kupplungsreaktionen im nahen Infrarot mittels Aufkonvertierungs-Nanopartikeln. <i>Angewandte Chemie</i> , 2016, 128, 12382-12386.	2.0	13
83	Modification of chemical reactivity of enzymatic hydrolysis lignin by ultrasound treatment in dilute alkaline solutions. <i>International Journal of Biological Macromolecules</i> , 2016, 93, 1279-1284.	7.5	29
84	Thermogravimetric analyses (TGA) of lignins isolated from the residue of corn stover bioethanol (CSB) production. <i>Holzforschung</i> , 2016, 70, 1175-1182.	1.9	13
85	Manipulating pH using near-infrared light assisted by upconverting nanoparticles. <i>Chemical Communications</i> , 2016, 52, 13959-13962.	4.1	32
86	Near-Infrared Photoinduced Coupling Reactions Assisted by Upconversion Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12195-12199.	13.8	65
87	Effect of nanocellulose/chitosan composite coatings on cucumber quality and shelf life. <i>Toxicological and Environmental Chemistry</i> , 2016, 98, 450-461.	1.2	14
88	Multiphoton Excitation of Upconverting Nanoparticles in Pulsed Regime. <i>Analytical Chemistry</i> , 2016, 88, 1468-1475.	6.5	18
89	Synthesis, antimicrobial activity of Schiff base compounds of cinnamaldehyde and amino acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 809-813.	2.2	44
90	Upconverting Nanoparticle-Assisted Photochemistry Induced by Low-Intensity Near-Infrared Light: How Low Can We Go?. <i>Chemistry - A European Journal</i> , 2015, 21, 9165-9170.	3.3	74

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91	Photon Upconversion Lithography: Patterning of Biomaterials Using Near-Infrared Light. <i>Advanced Materials</i> , 2015, 27, 2203-2206.	21.0	119
92	Identification of common features of vehicle motion under drowsy/distracted driving: A case study in Wuhan, China. <i>Accident Analysis and Prevention</i> , 2015, 81, 251-259.	5.7	33
93	Synthesis and antifungal property of <i>N,N</i> -bis(trans-cinnamaldehyde)-1,2-diiminoethane and its derivatives. <i>Toxicological and Environmental Chemistry</i> , 2015, 97, 429-438.	1.2	2
94	Formation Mechanisms, Structure, Solution Behavior, and Reactivity of Aminodiborane. <i>Journal of the American Chemical Society</i> , 2015, 137, 12406-12414.	13.7	42
95	Quantitative structure-activity relationship of antifungal activity of rosin derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 347-354.	2.2	14
96	Ultralow-intensity near-infrared light induces drug delivery by upconverting nanoparticles. <i>Chemical Communications</i> , 2015, 51, 431-434.	4.1	168
97	Preparation of Nanocrystalline Cellulose from Corn cob Acid-Hydrolysis Residue and Its Reinforcement Capabilities on Polyvinyl Alcohol Membranes. <i>Polymers and Polymer Composites</i> , 2014, 22, 675-682.	1.9	2
98	Fabrication of nano-crystalline cellulose with phosphoric acid and its full application in a modified polyurethane foam. <i>Polymer Degradation and Stability</i> , 2013, 98, 1940-1944.	5.8	45
99	Application of hinokitiol potassium salt for wood preservative. <i>Journal of Environmental Sciences</i> , 2013, 25, S32-S35.	6.1	6
100	Antifungal activities of <i>Cunninghamia lanceolata</i> heartwood extractives. <i>BioResources</i> , 2011, 6, 606-614.	1.0	62
101	Preparation of a lignin-based composite and its properties. <i>BioResources</i> , 2011, 6, 1532-1542.	1.0	8
102	Two New Diterpene Phenols from <i>Calocedrus decurrans</i> . <i>Natural Product Communications</i> , 2010, 5, 1934578X1000500.	0.5	0
103	The distribution and geological significance of carbazole compounds in Silurian paleo-pools of the Tarim Basin, Northwest China. <i>Diqiu Huaxue</i> , 2008, 27, 1-8.	0.5	1
104	Characterization and insecticidal activity of sucrose octanoates. <i>Agronomy for Sustainable Development</i> , 2008, 28, 239-245.	5.3	8
105	Fire-retardant mechanism of fire-retardant FRW by FTIR. <i>Frontiers of Forestry in China: Selected Publications From Chinese Universities</i> , 2006, 1, 438-444.	0.2	6
106	Donor-Acceptor Molecule Based High Performance Photothermal Organic Material for Efficient Water-Electric Cogeneration. <i>Angewandte Chemie</i> , 0, , .	2.0	0
107	Exploring the circular polarization capacity from chiral cellulose nanocrystal films for photo-controlled chiral helix of supramolecular polymers. <i>Angewandte Chemie</i> , 0, , .	2.0	2
108	Contrasting vertical distribution between prokaryotes and fungi in different water masses on the Ninety-East Ridge, Southern Indian Ocean. <i>Journal of Oceanology and Limnology</i> , 0, , 1.	1.3	0