

Wanxi Peng

List of Publications by Year in descending order

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95
papers

3,579
citations

159585

30
h-index

149698

56
g-index

95
all docs

95
docs citations

95
times ranked

3349
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Size and Aggregation/Agglomeration of Nanoparticles on the Interfacial/Interphase Properties and Tensile Strength of Polymer Nanocomposites. <i>Nanoscale Research Letters</i> , 2018, 13, 214.	5.7	335
2	Three pillars of sustainability in the wake of COVID-19: A systematic review and future research agenda for sustainable development. <i>Journal of Cleaner Production</i> , 2021, 297, 126660.	9.3	259
3	A review on phytoremediation of contaminants in air, water and soil. <i>Journal of Hazardous Materials</i> , 2021, 403, 123658.	12.4	192
4	A recent global review of hazardous chlorpyrifos pesticide in fruit and vegetables: Prevalence, remediation and actions needed. <i>Journal of Hazardous Materials</i> , 2020, 400, 123006.	12.4	150
5	Engineered biochar via microwave CO ₂ and steam pyrolysis to treat carcinogenic Congo red dye. <i>Journal of Hazardous Materials</i> , 2020, 395, 122636.	12.4	142
6	Mitigation of indoor air pollution: A review of recent advances in adsorption materials and catalytic oxidation. <i>Journal of Hazardous Materials</i> , 2021, 405, 124138.	12.4	128
7	Optimization of a hybrid system for solar-wind-based water desalination by reverse osmosis: Comparison of approaches. <i>Desalination</i> , 2018, 442, 16-31.	8.2	121
8	Engineering pyrolysis biochar via single-step microwave steam activation for hazardous landfill leachate treatment. <i>Journal of Hazardous Materials</i> , 2020, 390, 121649.	12.4	110
9	Gasification of refuse-derived fuel from municipal solid waste for energy production: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 2127-2140.	16.2	109
10	Progress in waste valorization using advanced pyrolysis techniques for hydrogen and gaseous fuel production. <i>Bioresource Technology</i> , 2021, 320, 124299.	9.6	104
11	Mainstream avenues for boosting graphitic carbon nitride efficiency: towards enhanced solar light-driven photocatalytic hydrogen production and environmental remediation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10571-10603.	10.3	80
12	Microwave pyrolysis valorization of used baby diaper. <i>Chemosphere</i> , 2019, 230, 294-302.	8.2	71
13	A review of dietary phytochemicals and their relation to oxidative stress and human diseases. <i>Chemosphere</i> , 2021, 271, 129499.	8.2	69
14	Mapping healthcare waste management research: Past evolution, current challenges, and future perspectives towards a circular economy transition. <i>Journal of Hazardous Materials</i> , 2022, 422, 126724.	12.4	68
15	Health effects from contaminant exposure in Baltic Sea birds and marine mammals: A review. <i>Environment International</i> , 2020, 139, 105725.	10.0	67
16	Predicting the electrical conductivity in polymer carbon nanotube nanocomposites based on the volume fractions and resistances of the nanoparticle, interphase, and tunneling regions in conductive networks. <i>RSC Advances</i> , 2018, 8, 19001-19010.	3.6	64
17	Characteristics of antibacterial molecular activities in poplar wood extractives. <i>Saudi Journal of Biological Sciences</i> , 2017, 24, 399-404.	3.8	63
18	Effect of Z -factor for strength of interphase layers on the tensile strength of polymer nanocomposites. <i>Polymer Composites</i> , 2019, 40, 1117-1122.	4.6	62

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19	Covid-19 pandemic in the lens of food safety and security. <i>Environmental Research</i> , 2021, 193, 110405.	7.5	56
20	Soft computing-based modeling and emission control/reduction of a diesel engine fueled with carbon nanoparticle-dosed water/diesel emulsion fuel. <i>Journal of Hazardous Materials</i> , 2021, 407, 124369.	12.4	56
21	Phytoremediation of radionuclides in soil, sediments and water. <i>Journal of Hazardous Materials</i> , 2021, 407, 124771.	12.4	53
22	Managing the hazardous waste cooking oil by conversion into bioenergy through the application of waste-derived green catalysts: A review. <i>Journal of Hazardous Materials</i> , 2022, 424, 127636.	12.4	53
23	Crotalaria verrucosa Leaf Extract Mediated Synthesis of Zinc Oxide Nanoparticles: Assessment of Antimicrobial and Anticancer Activity. <i>Molecules</i> , 2020, 25, 4896.	3.8	48
24	Antioxidant and xanthine oxidase inhibitory activities of total polyphenols from onion. <i>Saudi Journal of Biological Sciences</i> , 2018, 25, 1509-1513.	3.8	46
25	A state-of-the-art review on producing engineered biochar from shellfish waste and its application in aquaculture wastewater treatment. <i>Chemosphere</i> , 2022, 288, 132559.	8.2	43
26	Strategic hazard mitigation of waste furniture boards via pyrolysis: Pyrolysis behavior, mechanisms, and value-added products. <i>Journal of Hazardous Materials</i> , 2022, 421, 126774.	12.4	40
27	Study on biomolecules in extractives of <i>Camellia oleifera</i> fruit shell by GC-MS. <i>Saudi Journal of Biological Sciences</i> , 2018, 25, 234-236.	3.8	39
28	Cross-Dehydrogenative Coupling Reactions Between C(sp) ³ -H and X-H (X = N, P, S, Si, Sn) Bonds: An Environmentally Benign Access to Heteroatom-Substituted Alkynes. <i>Topics in Current Chemistry</i> , 2019, 377, 20.	5.8	39
29	Application of LSSVM algorithm for estimating higher heating value of biomass based on ultimate analysis. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 709-715.	2.3	37
30	An exploration on the toxicity mechanisms of phytotoxins and their potential utilities. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 395-435.	12.8	36
31	A detailed study of oxy-fuel combustion of biomass in a circulating fluidized bed (CFB) combustor: Evaluation of catalytic performance of metal nanoparticles (Al, Ni) for combustion efficiency improvement. <i>Energy</i> , 2016, 109, 1139-1147.	8.8	34
32	Characteristics of activated carbon remove sulfur particles against smog. <i>Saudi Journal of Biological Sciences</i> , 2017, 24, 1370-1374.	3.8	32
33	Hemicellulose structural changes during steam pretreatment and biogradation of <i>Lentinus edodes</i> . <i>Arabian Journal of Chemistry</i> , 2018, 11, 771-781.	4.9	31
34	Exergy intensity and environmental consequences of the medical face masks curtailing the COVID-19 pandemic: Malign bodyguard?. <i>Journal of Cleaner Production</i> , 2021, 313, 127880.	9.3	31
35	Pilot-scale co-processing of lignocellulosic biomass, algae, shellfish waste via thermochemical approach: Recent progress and future directions. <i>Bioresource Technology</i> , 2022, 347, 126687.	9.6	28
36	Adsorption characteristics of sulfur powder by bamboo charcoal to restrain sulfur allergies. <i>Saudi Journal of Biological Sciences</i> , 2017, 24, 103-107.	3.8	27

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37	Preparation and properties of novel flame-retardant PBS wood-plastic composites. <i>Arabian Journal of Chemistry</i> , 2018, 11, 844-857.	4.9	26
38	Molecular characteristics of <i>Illicium verum</i> extractives to activate acquired immune response. <i>Saudi Journal of Biological Sciences</i> , 2016, 23, 348-352.	3.8	25
39	Removal of Cu ²⁺ from wastewater by modified xanthan gum (XG) with ethylenediamine (EDA). <i>RSC Advances</i> , 2016, 6, 83226-83233.	3.6	24
40	Vertical flow constructed wetlands using expanded clay and biochar for wastewater remediation: A comparative study and prediction of effluents using machine learning. <i>Journal of Hazardous Materials</i> , 2021, 413, 125426.	12.4	24
41	A Screen-Printed Electrode Modified With Graphene/Co ₃ O ₄ Nanocomposite for Electrochemical Detection of Tramadol. <i>Frontiers in Chemistry</i> , 2020, 8, 562308.	3.6	23
42	Support Austria's glyphosate ban. <i>Science</i> , 2020, 367, 257-258.	12.6	23
43	Systematic characterization of volatile organic components and pyrolyzates from <i>Camellia oleifera</i> seed cake for developing high value-added products. <i>Arabian Journal of Chemistry</i> , 2018, 11, 802-814.	4.9	22
44	Properties of antibacterial bioboard from bamboo macromolecule by hot press. <i>Saudi Journal of Biological Sciences</i> , 2018, 25, 465-468.	3.8	22
45	Towards a better understanding of the aggregation mechanisms of iron (hydr)oxide nanoparticles interacting with extracellular polymeric substances: Role of pH and electrolyte solution. <i>Science of the Total Environment</i> , 2018, 645, 372-379.	8.0	22
46	Recent Progress in Carbon Nanotube Polymer Composites in Tissue Engineering and Regeneration. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6440.	4.1	22
47	Progress in thermochemical conversion of aquatic weeds in shellfish aquaculture for biofuel generation: Technical and economic perspectives. <i>Bioresource Technology</i> , 2022, 344, 126202.	9.6	20
48	Adsorption characteristics of sulfur solution by activated carbon against drinking-water toxicosis. <i>Saudi Journal of Biological Sciences</i> , 2017, 24, 1355-1360.	3.8	19
49	High-efficient extraction of principal medicinal components from fresh <i>Phellodendron</i> bark (cortex) Tj ETQq1 1 0.784314 rgBT _J /Overl	3.8	19
50	Desulphurization characteristics of bamboo charcoal from sulfur solution. <i>Saudi Journal of Biological Sciences</i> , 2017, 24, 127-131.	3.8	18
51	The ongoing cut-down of the Amazon rainforest threatens the climate and requires global tree planting projects: A short review. <i>Environmental Research</i> , 2020, 181, 108887.	7.5	18
52	Progress in valorisation of agriculture, aquaculture and shellfish biomass into biochemicals and biomaterials towards sustainable bioeconomy. <i>Chemosphere</i> , 2022, 291, 133036.	8.2	18
53	Biodegradation of hazardous naphthalene and cleaner production of rhamnolipids " Green approaches of pollution mitigation. <i>Environmental Research</i> , 2022, 209, 112875.	7.5	18
54	Production of value-added hydrochar from single-mode microwave hydrothermal carbonization of oil palm waste for de-chlorination of domestic water. <i>Science of the Total Environment</i> , 2022, 833, 154968.	8.0	18

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55	Evaluation of the cadmium phytoextraction potential of tobacco (<i>Nicotiana tabacum</i>) and rhizosphere micro-characteristics under different cadmium levels. <i>Chemosphere</i> , 2022, 286, 131714.	8.2	17
56	Molecules and functions of rosewood: <i>Dalbergia stevenson</i> . <i>Arabian Journal of Chemistry</i> , 2018, 11, 782-792.	4.9	16
57	Biomedical Molecular Characteristics of YBSJ Extractives from <i>Illicium Verum</i> Fruit. <i>Biotechnology and Biotechnological Equipment</i> , 2013, 27, 4311-4316.	1.3	15
58	Properties of nonvolatile and antibacterial bioboard produced from bamboo macromolecules by hot pressing. <i>Saudi Journal of Biological Sciences</i> , 2018, 25, 474-478.	3.8	15
59	Progress in microbial biomass conversion into green energy. <i>Chemosphere</i> , 2021, 281, 130835.	8.2	15
60	Molecules and functions of rosewood: <i>Diospyros celebica</i> . <i>Arabian Journal of Chemistry</i> , 2018, 11, 756-762.	4.9	14
61	Design, preparation and evaluation of a high performance sensor for formaldehyde based on a novel hybride nonocomposite ZnWO ₃ /rGO. <i>Analytica Chimica Acta</i> , 2019, 1051, 120-128.	5.4	14
62	Body mass, mercury exposure, biochemistry and untargeted metabolomics of incubating common eiders (<i>Somateria mollissima</i>) in three Baltic colonies. <i>Environment International</i> , 2020, 142, 105866.	10.0	13
63	Exergetic performance evaluation of a diesel engine powered by diesel/biodiesel mixtures containing oxygenated additive ethylene glycol diacetate. <i>Science of the Total Environment</i> , 2021, 792, 148435.	8.0	13
64	Integrated farming system producing zero emissions and sustainable livelihood for small-scale cattle farms: Case study in the Mekong Delta, Vietnam. <i>Environmental Pollution</i> , 2020, 265, 114853.	7.5	13
65	A Novel ANFIS-PSO Network for forecasting oil flocculated asphaltene weight percentage at wide range of operation conditions. <i>Petroleum Science and Technology</i> , 2018, 36, 1044-1050.	1.5	12
66	Biological analysis on extractives of bayberry fresh flesh by GC-MS. <i>Saudi Journal of Biological Sciences</i> , 2018, 25, 816-818.	3.8	9
67	3-(4-Bromophenyl)-4-(4-hydroxyanilino)furan-2(5H)-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o2329-o2329.	0.2	8
68	GC-MS explores health care components in the extract of <i>Pterocarpus Macarocarpus</i> Kurz. <i>Saudi Journal of Biological Sciences</i> , 2018, 25, 1196-1201.	3.8	8
69	Effect of graphene nanoplatelets addition on the elastic properties of short ceramic fiber-reinforced aluminum-based hybrid nanocomposites. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 1417-1433.	4.7	8
70	Integration of environmental metabolomics and physiological approach for evaluation of saline pollution to rice plant. <i>Environmental Pollution</i> , 2021, 286, 117214.	7.5	8
71	Separation characteristics of lignin from <i>Eucalyptus camaldulensis</i> lignin celluloses for biomedical cellulose. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2014, 27, 723-8.	0.2	8
72	Report: Molecular basis of antibacterial activities in extracts of <i>Eucommia ulmoides</i> wood. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2014, 27, 2133-8.	0.2	8

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73	Environmental perspectives of textile waste, environmental pollution and recycling. <i>Environmental Technology Reviews</i> , 2022, 11, 62-71.	4.3	8
74	Molecular bonding characteristics of Self-plasticized bamboo composites. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2014, 27, 975-82.	0.2	7
75	Oncolytic viruses as a promising therapeutic strategy against the detrimental health impacts of air pollution: The case of glioblastoma multiforme. <i>Seminars in Cancer Biology</i> , 2022, 86, 1122-1142.	9.6	6
76	Immune effects of extractives on bamboo biomass self-plasticization. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2014, 27, 991-9.	0.2	6
77	Seroprevalence of avian influenza in Baltic common eiders (<i>Somateria mollissima</i>) and pink-footed geese (<i>Anser brachyrhynchus</i>). <i>Environment International</i> , 2020, 142, 105873.	10.0	4
78	Molecules and medical function of <i>Diospyros lotus</i> L.. <i>Thermal Science</i> , 2020, 24, 1705-1712.	1.1	4
79	Variability of macroscopic dimensions of Moso bamboo. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2015, 28, 675-9.	0.2	4
80	Compression performance of thin-walled square steel tube/bamboo plywood composite hollow columns with binding bars. <i>Advances in Structural Engineering</i> , 2018, 21, 347-364.	2.4	3
81	Pyrolysis molecule of <i>Torreya grandis</i> bark for potential biomedicine. <i>Saudi Journal of Biological Sciences</i> , 2019, 26, 808-815.	3.8	3
82	Set sustainable goals for the Arctic gateway coordinated international governance is required to resist yet another tipping point. <i>Science of the Total Environment</i> , 2021, 776, 146003.	8.0	3
83	Antimicrobial activities of flavonoids against bamboo-destroying fungi and molds. <i>Toxicological and Environmental Chemistry</i> , 2017, 99, 892-899.	1.2	2
84	Chemical components analysis of <i>Toona sinensis</i> bark and wood by pyrolysis-gas chromatography-mass spectrometry. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020, 15, e2487.	1.5	2
85	Molecules and functions of rosewood: <i>Pterocarpus indicus</i> . <i>Thermal Science</i> , 2020, 24, 1869-1876.	1.1	2
86	A novel microwave air heater integrated with thermal energy storage. <i>International Journal of Energy Research</i> , 0, , .	4.5	2
87	Environmental management of two of the world's most endangered marine and terrestrial predators: Vaquita and cheetah. <i>Environmental Research</i> , 2020, 190, 109966.	7.5	1
88	Chemical components from different parts of <i>Forsythia suspensa</i> vahl with different extraction methods by gas-chromatography-mass spectrometry. <i>Thermal Science</i> , 2020, 24, 1617-1624.	1.1	1
89	<i>Catalpa ovata</i> G. Don. potential medicinal value of leaves. <i>Thermal Science</i> , 2020, 24, 1713-1720.	1.1	1
90	Analysis on active molecules in <i>Populus nigra</i> wood extractives by GC-MS. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2014, 27, 2061-5.	0.2	1

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91	Study on antibacterial molecular drugs in Eucalyptus granlla wood extractives by GC-MS. Pakistan Journal of Pharmaceutical Sciences, 2015, 28, 1445-8.	0.2	1
92	Notice of Retraction: Preliminary research on theory and experiment of microwave deresination for Pine wood. , 2010, , .		0
93	Pyrolysis molecule of Clerodendrum trichotomum for potential biomedicine. Thermal Science, 2020, 24, 1625-1631.	1.1	0
94	Molecular characteristics of Salix cheilophila chemical components. Thermal Science, 2020, 24, 1861-1868.	1.1	0
95	Resource utilization of Sambucus williamsii Hance root. Thermal Science, 2020, 24, 1697-1703.	1.1	0