## Liang Wang

## List of Publications by Year in descending order

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126708 197535 3,051 124 33 49 citations h-index g-index papers 124 124 124 3475 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Detection of polychlorinated benzenes (persistent organic pollutants) by a luminescent sensor based on a lanthanide metal–organic framework. Journal of Materials Chemistry A, 2017, 5, 5541-5549.	5.2	160
2	Review on fiber morphology obtained by bubble electrospinning and blown bubble spinning. Thermal Science, 2012, 16, 1263-1279.	0.5	138
3	The role of transparent exopolymer particles (TEP) in membrane fouling: A critical review. Water Research, 2020, 181, 115930.	<b>5.</b> 3	128
4	Polymer/clay aerogel composites with flame retardant agents: Mechanical, thermal and fire behavior. Materials & Design, 2013, 52, 609-614.	5.1	84
5	Efficient inhibition of photogenerated electron-hole recombination through persulfate activation and dual-pathway degradation of micropollutants over iron molybdate. Applied Catalysis B: Environmental, 2019, 257, 117904.	10.8	79
6	Hydrophobic PVDF/graphene hybrid membrane for CO2 absorption in membrane contactor. Journal of Membrane Science, 2016, 520, 120-129.	4.1	74
7	Enhanced Energy Harvesting Ability of ZnO/PAN Hybrid Piezoelectric Nanogenerators. ACS Applied Materials & Samp; Interfaces, 2020, 12, 54936-54945.	4.0	70
8	Intrinsic relationship between Langmuir sorption volume and pressure for coal: Experimental and thermodynamic modeling study. Fuel, 2019, 241, 105-117.	3.4	67
9	Enhanced photoactivity of Bi2WO6 by iodide insertion into the interlayer for water purification under visible light. Chemical Engineering Journal, 2018, 352, 664-672.	6.6	65
10	Mitigated membrane fouling and enhanced removal of extracellular antibiotic resistance genes from wastewater effluent via an integrated pre-coagulation and microfiltration process. Water Research, 2019, 159, 145-152.	<b>5.</b> 3	60
11	Foamlike Xanthan Gum/Clay Aerogel Composites and Tailoring Properties by Blending with Agar. Industrial & Engineering Chemistry Research, 2014, 53, 7680-7687.	1.8	58
12	Superhydrophobic PVDF membrane induced by hydrophobic SiO 2 nanoparticles and its use for CO 2 absorption. Separation and Purification Technology, 2018, 190, 108-116.	3.9	58
13	Kinetics and mechanisms of electrocatalytic hydrodechlorination of diclofenac on Pd-Ni/PPy-rGO/Ni electrodes. Applied Catalysis B: Environmental, 2020, 268, 118696.	10.8	58
14	Enhancement of hydrophilicity and the resistance for irreversible fouling of polysulfone (PSF) membrane immobilized with graphene oxide (GO) through chloromethylated and quaternized reaction. Chemical Engineering Journal, 2018, 334, 2068-2078.	6.6	57
15	A multi-responsive luminescent sensor for organic small-molecule pollutants and metal ions based on a 4d–4f metal–organic framework. Dalton Transactions, 2017, 46, 3526-3534.	1.6	56
16	Activation of persulfate by EDTA-2K-derived nitrogen-doped porous carbons for organic contaminant removal: Radical and non-radical pathways. Chemical Engineering Journal, 2020, 386, 124009.	6.6	56
17	Graphene oxide-polyethylene glycol incorporated PVDF nanocomposite ultrafiltration membrane with enhanced hydrophilicity, permeability, and antifouling performance. Chemosphere, 2020, 253, 126649.	4.2	56
18	QAC modified PVDF membranes: Antibiofouling performance, mechanisms, and effects on microbial communities in an MBR treating municipal wastewater. Water Research, 2017, 120, 256-264.	5.3	53

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19	AgBr-wrapped Ag chelated on nitrogen-doped reduced graphene oxide for water purification under visible light. Applied Catalysis B: Environmental, 2018, 220, 118-125.	10.8	51
20	Hierarchical Janus membrane with superior fouling and wetting resistance for efficient water recovery from challenging wastewater via membrane distillation. Journal of Membrane Science, 2021, 618, 118676.	4.1	50
21	Enhanced water permeance of a polyamide thin-film composite nanofiltration membrane with a metal-organic framework interlayer. Journal of Membrane Science, 2021, 625, 119154.	4.1	50
22	An antifouling catechol/chitosan-modified polyvinylidene fluoride membrane for sustainable oil-in-water emulsions separation. Frontiers of Environmental Science and Engineering, 2021, 15, 1.	3.3	48
23	Mixed-charge poly(2,6-dimethyl-phenylene oxide)anion exchange membrane for diffusion dialysis in acid recovery. Journal of Membrane Science, 2018, 549, 543-549.	4.1	47
24	Impacts of quaternary ammonium compounds on membrane bioreactor performance: Acute and chronic responses of microorganisms. Water Research, 2018, 134, 153-161.	5.3	43
25	3D tree-shaped hierarchical flax fabric for highly efficient solar steam generation. Journal of Materials Chemistry A, 2021, 9, 2248-2258.	5.2	43
26	Effect of long-term operation on the performance of polypropylene and polyvinylidene fluoride membrane contactors for CO2 absorption. Separation and Purification Technology, 2013, 116, 300-306.	3.9	40
27	A Macroporous Metal–Organic Framework with Enhanced Hydrophobicity for Efficient Oil Adsorption. Chemistry - A European Journal, 2018, 24, 3754-3759.	1.7	38
28	Polyamide thin film nanocomposite membrane containing polydopamine modified ZIF-8 for nanofiltration. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 612, 125971.	2.3	38
29	Green bio-based aerogels prepared from recycled cellulose fiber suspensions. RSC Advances, 2015, 5, 31384-31391.	1.7	36
30	Proton blockage membrane with tertiary amine groups for concentration of sulfonic acid in electrodialysis. Journal of Membrane Science, 2018, 555, 78-87.	4.1	35
31	Comb-shaped sulfonated poly(ether ether ketone) as a cation exchange membrane for electrodialysis in acid recovery. Journal of Materials Chemistry A, 2018, 6, 22940-22950.	5.2	35
32	Notable light-free catalytic activity for pollutant destruction over flower-like BiOI microspheres by a dual-reaction-center Fenton-like process. Journal of Colloid and Interface Science, 2018, 527, 251-259.	5.0	35
33	Heteroatom-doped porous carbons from sucrose and phytic acid for adsorptive desulfurization and sulfamethoxazole removal: A comparison between aqueous and non-aqueous adsorption. Journal of Colloid and Interface Science, 2019, 557, 336-348.	5.0	34
34	Fabrication of Co3O4-Bi2O3-Ti catalytic membrane for efficient degradation of organic pollutants in water by peroxymonosulfate activation. Journal of Colloid and Interface Science, 2022, 607, 451-461.	5.0	34
35	Regulation of the adsorption affinity of metal-organic framework MIL-101 via a TiO2 coating strategy for high capacity adsorption and efficient photocatalysis. Microporous and Mesoporous Materials, 2018, 266, 47-55.	2.2	33
36	Visible-light-driven photocatalyst of La–N-codoped TiO2 nano-photocatalyst: Fabrication and its enhanced photocatalytic performance and mechanism. Journal of Industrial and Engineering Chemistry, 2015, 25, 16-21.	2.9	31

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37	Activated carbons derived from hydrothermal impregnation of sucrose with phosphoric acid: remarkable adsorbents for sulfamethoxazole removal. RSC Advances, 2019, 9, 17841-17851.	1.7	31
38	Multi-Jet Electrospinning with Auxiliary Electrode: The Influence of Solution Properties. Polymers, 2018, 10, 572.	2.0	28
39	Microwaveâ€crosslinked bioâ€based starch/clay aerogels. Polymer International, 2016, 65, 899-904.	1.6	27
40	Boron/nitrogen flame retardant additives crossâ€linked cellulose nanofibril/montmorillonite aerogels toward superâ€low flammability and improved mechanical properties. Polymers for Advanced Technologies, 2019, 30, 1807-1817.	1.6	27
41	A Europium–Organic Framework Sensing Material for 2-Aminoacetophenone, a Bacterial Biomarker in Water. Inorganic Chemistry, 2021, 60, 9192-9198.	1.9	27
42	CeO2 nanowires stretch-embedded in reduced graphite oxide nanocomposite support for Pt nanoparticles as potential electrocatalyst for methanol oxidation reaction. International Journal of Hydrogen Energy, 2017, 42, 20549-20559.	3.8	26
43	Properties of bio-based gum Arabic/clay aerogels. Industrial Crops and Products, 2016, 91, 15-21.	2.5	25
44	Wetting mechanism of a PVDF hollow fiber membrane in immersed membrane contactors for CO <sub>2</sub> capture in the presence of monoethanolamine. RSC Advances, 2017, 7, 13451-13457.	1.7	25
45	Enhanced photocatalytic destruction of pollutants by surface W vacancies in VW-Bi2WO6 under visible light. Journal of Colloid and Interface Science, 2020, 576, 385-393.	5.0	23
46	Egg shell waste as an activation agent for the manufacture of porous carbon. Chinese Journal of Chemical Engineering, 2020, 28, 896-900.	1.7	22
47	A Sm-doped Egeria-densa-like ZnO nanowires@PVDF nanofiber membrane for high-efficiency water clean. Science of the Total Environment, 2020, 737, 139818.	3.9	22
48	Carbon hollow fibers with tunable hierarchical structure as self-standing supercapacitor electrode. Chemical Engineering Journal, 2022, 431, 134099.	6.6	22
49	Silver chloride enwrapped silver grafted on nitrogen-doped reduced graphene oxide as a highly efficient visible-light-driven photocatalyst. Journal of Colloid and Interface Science, 2017, 505, 421-429.	5.0	21
50	Hierarchical micro/nanofibrous filter for effective fine-particle capture. Powder Technology, 2020, 360, 1192-1199.	2.1	21
51	Bilanthanide Metal–Organic Frameworks for Instant Detection of 17βâ€Estradiol, a Vital Physiological Index. Small Structures, 2022, 3, 2100113.	6.9	21
52	Adsorption of methyl orange from aqueous solution by composite magnetic microspheres of chitosan and quaternary ammonium chitosan derivative. Chinese Journal of Chemical Engineering, 2019, 27, 1973-1980.	1.7	20
53	Preparation and characterization of palladium/polyaniline/foamed nickel composite electrode for electrocatalytic dechlorination. Separation and Purification Technology, 2019, 211, 198-206.	3.9	20
54	Hierarchical Porous Polyamide 6 by Solution Foaming: Synthesis, Characterization and Properties. Polymers, 2018, 10, 1310.	2.0	19

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55	Effect of volatile solvent and evaporation time on formation and performance of PVC/PVC- <i>g</i> -PEGMA blended membranes. RSC Advances, 2019, 9, 34486-34495.	1.7	18
56	A leaf-vein-like MnO2@PVDF nanofiber gel polymer electrolyte matrix for Li-ion capacitor with excellent thermal stability and improved cyclability. Chemical Engineering Journal, 2020, 387, 124058.	6.6	18
57	Polyamide thin-film nanocomposite membrane containing star-shaped ZIF-8 with enhanced water permeance and PPCPs removal. Separation and Purification Technology, 2022, 292, 120886.	3.9	18
58	Preparation and characterization of palladium/polypyrrole-reduced graphene oxide/foamed nickel composite electrode and its electrochemical dechlorination of triclosan. Arabian Journal of Chemistry, 2020, 13, 3963-3973.	2.3	16
59	Research on the behaviors of extending thermochromic colors for a new thermochromic microcapsule. Journal of the Textile Institute, 2020, 111, 1097-1105.	1.0	16
60	Significance of transparent exopolymer particles derived from aquatic algae in membrane fouling. Arabian Journal of Chemistry, 2020, 13, 4577-4585.	2.3	16
61	Designed synthesis of thin CeO2 nanowires-supported Pt electrocatalysts with pore-interconnected structure and its high catalytic activity for methanol oxidation. Journal of Materials Science, 2018, 53, 2087-2101.	1.7	15
62	The novel thermochromic and energy-storage microcapsules with significant extension of color change range to different tones. Journal of Macromolecular Science - Pure and Applied Chemistry, 2019, 56, 588-596.	1,2	15
63	Operation parameters optimization of a hybrid dead-end/cross-flow forward osmosis system for microalgae dewatering by response surface methodology. Chemical Engineering Research and Design, 2020, 143, 14-24.	2.7	15
64	Forward osmosis treatment of algal-rich water: Characteristics and mechanism of membrane fouling. Journal of Hazardous Materials, 2022, 423, 126984.	6.5	15
65	Functionalization of polyacrylonitrile with tetrazole groups for ultrafiltration membranes. RSC Advances, 2016, 6, 72133-72140.	1.7	14
66	Highly Flame Retardant Melamineâ€Formaldehyde Crossâ€Linked Cellulose Nanofibrils/Sodium Montmorillonite Aerogels with Improved Mechanical Properties. Macromolecular Materials and Engineering, 2018, 303, 1800379.	1.7	14
67	Microalgae dewatering using a hybrid dead-end/cross-flow forward osmosis system: Influence of microalgae properties, draw solution properties, and hydraulic conditions. Algal Research, 2020, 48, 101899.	2.4	14
68	$17\hat{l}\pm$ -Ethinylestradiol removal from water by magnetic ion exchange resin. Chinese Journal of Chemical Engineering, 2018, 26, 864-869.	1.7	13
69	Porous polyamide monolith by continuous solution foaming as reusable oils and organic solvents absorbent. Materials Letters, 2018, 213, 44-47.	1.3	12
70	Electrospun polyimide nanofiber-coated polyimide nonwoven fabric for hot gas filtration. Adsorption Science and Technology, 2018, 36, 1734-1743.	1.5	12
71	Numerical approach to controlling a moving jet's vibration in an electrospinning system: An auxiliary electrode and uniform electric field. Journal of Low Frequency Noise Vibration and Active Control, 2019, 38, 1687-1698.	1.3	12
72	Insights into the Fouling Propensities of Natural Derived Alginate Blocks during the Microfiltration Process. Processes, 2019, 7, 858.	1.3	12

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73	Reduction of long-term irreversible membrane fouling: A comparison of integrated and separated processes of MIEX and UF. Journal of Membrane Science, 2020, 616, 118567.	4.1	12
74	Enhanced struvite generation and separation by magnesium anode electrolysis coupled with cathode electrodeposition. Science of the Total Environment, 2022, 804, 150101.	3.9	12
75	Effect of non-uniform skin of "Walter―on the evaporative resistance and thermal insulation of clothing. International Journal of Clothing Science and Technology, 2017, 29, 686-695.	0.5	11
76	A double-switching voltage: Controlling multiple jets in electrospinning. Materials Letters, 2018, 233, 359-362.	1.3	10
77	Efficient pretreatment of industrial estate wastewater for biodegradability enhancement using a micro-electrolysis-circulatory system. Journal of Environmental Management, 2019, 250, 109492.	3.8	10
78	A polyamide 6–organic montmorillonite composite sponge by large-scale solution foaming as a reusable and efficient oil and organic pollutant sorbent. Soft Matter, 2019, 15, 9066-9075.	1.2	10
79	Protein-derived nitrogen and sulfur co-doped carbon for efficient adsorptive removal of heavy metals. Chinese Journal of Chemical Engineering, 2019, 27, 2581-2586.	1.7	10
80	Porous polyamide 6/carbon black composite as an effective electromagnetic interference shield. Polymer International, 2022, 71, 247-254.	1.6	10
81	Membrane fouling control in the integrated process of magnetic anion exchange and ultrafiltration. Desalination and Water Treatment, 2016, 57, 17283-17290.	1.0	9
82	Biological nitrogen removal in a modified anoxic/oxic process for piggery wastewater treatment. Desalination and Water Treatment, 2016, 57, 11266-11274.	1.0	9
83	The Preparation of Pd/Foam-Ni Electrode and Its Electrocatalytic Hydrodechlorination for Monochlorophenol Isomers. Catalysts, 2018, 8, 378.	1.6	9
84	Heteroatom-doped highly porous carbons prepared by <i>in situ</i> activation for efficient adsorptive removal of sulfamethoxazole. RSC Advances, 2020, 10, 1595-1602.	1.7	9
85	Ice-Template Crosslinked PVA Aerogels Modified with Tannic Acid and Sodium Alginate. Gels, 2022, 8, 419.	2.1	9
86	Preparation and characterization of superhydrophobic PVDF/HMSNs hybrid membrane for CO2 absorption. Polymer, 2021, 214, 123242.	1.8	8
87	Superâ€high fraction of organic montmorillonite filled polyamide 6 composite foam: Morphologies, thermal and mechanical properties. Polymers for Advanced Technologies, 2021, 32, 544-552.	1.6	8
88	Rational designing of tree-like polymer gel membrane based on PVDF/lamellar organic montmorillonite nanofiber with excellent flame retardancy and superior ion conductivity for high-performance lithium-ion capacitor. Chemical Engineering Journal, 2021, 422, 130116.	6.6	8
89	Pilot-scale study of forward osmosis for treating desulfurization wastewater. Water Science and Technology, 2020, 82, 2857-2863.	1.2	8
90	Demulsification performance and mechanism of oil droplets by electrocoagulation: Role of surfactant. Journal of Environmental Sciences, 2022, 118, 171-180.	3.2	8

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91	Degradation of di- <i>n</i> -butyl phthalate in aqueous solution by the O <sub>3</sub> /UV process. Desalination and Water Treatment, 2014, 52, 824-833.	1.0	7
92	Effect of potassium permanganate dosing position on the performance of coagulation/ultrafiltration combined process. Chinese Journal of Chemical Engineering, 2018, 26, 89-95.	1.7	7
93	Biological membrane fouling control with the integrated and separated processes of MIEX and UF. Separation and Purification Technology, 2021, 259, 118151.	3.9	7
94	Improved Fiber Uniformity and Jet Number in Multi-spinneret Electrospinning via Auxiliary Electrode. Fibers and Polymers, 2019, 20, 1172-1179.	1.1	6
95	Membrane fouling control by Ca2+ during coagulation–ultrafiltration process for algal-rich water treatment. Environmental Geochemistry and Health, 2020, 42, 809-818.	1.8	6
96	Catalytic ozonation of thymol in reverse osmosis concentrate with core/shell Fe 3 O 4 @SiO 2 @Yb 2 O 3 catalyst: Parameter optimization and degradation pathway. Chinese Journal of Chemical Engineering, 2017, 25, 665-670.	1.7	5
97	Electrospun polyimide nanofibrous membranes for absorption of oil spills. Journal of Industrial Textiles, 2020, 50, 584-595.	1.1	5
98	Hierarchical Cellular Poly( <i>m</i> à€phenylene isophthalamide) with High Flame Retardancy, Mechanical Robustness, and Heat Resistance at Extreme Situation. Macromolecular Materials and Engineering, 2021, 306, .	1.7	5
99	Preparation of Fe3O4/polysulfone ultrafiltration membrane and its adsorption of phosphate from aqueous solution. , 0, $116$ , $39$ -48.		5
100	Electrospun polyimide/organic montmorillonite composite nanofibrous membranes with enhanced mechanical properties and flame retardancy. Journal of Industrial Textiles, 2020, 49, 875-888.	1,1	4
101	Study on Chemical Pre-Oxidation Enhanced Coagulation for Micro-Polluted Raw Water Treatment. Advanced Materials Research, 0, 777, 472-475.	0.3	3
102	Effect of disinfection method on odor and disinfection byproduct control in drinking water treatment. Desalination and Water Treatment, 2016, 57, 7753-7762.	1.0	3
103	Binary structured polypropylene-/propylene-based elastomer fibrous membranes with enhanced flexibility. Journal of Industrial Textiles, 2022, 51, 1431-1444.	1.1	3
104	Magnetic porous Fe-C materials prepared by one-step pyrolyzation of NaFe(III)EDTA for adsorptive removal of sulfamethoxazole., 0, 207, 321-331.		3
105	Efficient synergism of K2FeO4 preoxidation/ MIEX adsorption in ultrafiltration membrane fouling control and mechanisms. Journal of Membrane Science, 2022, 648, 120331.	4.1	3
106	Preparation and Characterization of Double-skinned FO Membranes: Comparative Performance Between Nanofiber and Phase Conversion Membranes As Supporting Layers. Chemical Engineering Research and Design, 2022, , .	2.7	3
107	Study on Relationship between Characteristics of DOC and Removal Performance by BAC Filter. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	2
108	Effect of ACF Properties on the Electric Adsorption Performance of the ACF Electrode. Applied Mechanics and Materials, 2012, 209-211, 1990-1994.	0.2	2

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109	Experimental Studies on CO <sub>2</sub> Absorption in Immersed Hollow Fiber Membrane Contactor. Applied Mechanics and Materials, 0, 209-211, 1571-1575.	0.2	2
110	Pretreatment Process of Nanofiltration for Silting Density Index Reduction in Drinking Water Treatment System. Advanced Materials Research, 2013, 777, 467-471.	0.3	2
111	Electrosorption of Hardness Ions from Water with Activated Carbon Cloth Electrodes. Asian Journal of Chemistry, 2015, 27, 2082-2086.	0.1	2
112	catena-Poly[[[tetraquazinc(II)]-μ-2,5-dihydroxybenzene-1,4-diacetato-κ2O1:O4] dihydrate]. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, m1505-m1505.	0.2	2
113	Thermal and Wet Comfort of Fabrics Based on Fractal Dimension of Silicone Coating. Journal of Engineered Fibers and Fabrics, 2018, 13, 155892501801300.	0.5	1
114	EXPERIMENTAL STUDIES ON THE EFFECTS OF DIFFERENT CARBON SOURCES ON PHOSPHORUS REMOVAL DURING DENITRIFYING PROCESS IN THE PARALLEL A2O-MBR SYSTEM. Environmental Engineering and Management Journal, 2013, 12, 1833-1836.	0.2	1
115	Influence of the magnetizing pretreatment on the mitigation of membrane scaling during nanofiltration., 0, 96, 61-68.		1
116	Chapter 10. Thermal, Electrical, Insulation and Fire Resistance Properties of Polysaccharide and Protein-based Aerogels. RSC Green Chemistry, 2018, , 158-176.	0.0	1
117	Application of GIS in Water Pollutant Capacity Total Control. , 2009, , .		0
118	Study on Coagulation-Microfiltration Combination Process for Treating Luan River Water., 2009,,.		0
119	Distribution of extracellular polymeric substances in pilot-scale membrane bioreactor. Transactions of Tianjin University, 2010, 16, 147-151.	3.3	0
120	Study on Control of Membrane Fouling by Different Forms of Coagulation Pretreatment. , 2010, , .		0
121	Notice of Retraction: Study of differential UV spectroscopy on mechanism of trihalomethanes formation in drinking water treatmen. , 2010, , .		0
122	Notice of Retraction: Study on fouling resistance by nanosized TiO2 modified ultra-filtration membrane catalyzed ozonation. , 2010, , .		0
123	Notice of Retraction: Study on pressure-sensitivity of PU/PVDF blend hollow fiber membrane filtration. , 2010, , .		0
124	Lake Water Treatment Using Polyurethane-Polyvinylidene Fluoride Hollow Fiber Blend Membrane and Polyvinylidene Fluoride Hollow Fiber Membrane in a Coagulation-Microfiltration Process. Advanced Materials Research, 0, 518-523, 755-759.	0.3	0