

# Linda Zou

## List of Publications by Year in descending order

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127  
papers

10,308  
citations

30047

54  
h-index

32815

100  
g-index

132  
all docs

132  
docs citations

132  
times ranked

9328  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent developments in forward osmosis: Opportunities and challenges. <i>Journal of Membrane Science</i> , 2012, 396, 1-21.	4.1	1,141
2	Graphene oxide-assisted membranes: Fabrication and potential applications in desalination and water purification. <i>Journal of Membrane Science</i> , 2015, 484, 95-106.	4.1	508
3	Novel Graphene-Like Electrodes for Capacitive Deionization. <i>Environmental Science &amp; Technology</i> , 2010, 44, 8692-8697.	4.6	392
4	Using mesoporous carbon electrodes for brackish water desalination. <i>Water Research</i> , 2008, 42, 2340-2348.	5.3	338
5	Using activated carbon electrode in electrosorptive deionisation of brackish water. <i>Desalination</i> , 2008, 225, 329-340.	4.0	289
6	The controversial antibacterial activity of graphene-based materials. <i>Carbon</i> , 2016, 105, 362-376.	5.4	249
7	Ion-exchange membrane capacitive deionization: A new strategy for brackish water desalination. <i>Desalination</i> , 2011, 275, 62-66.	4.0	247
8	Surface hydrophilic modification of RO membranes by plasma polymerization for low organic fouling. <i>Journal of Membrane Science</i> , 2011, 369, 420-428.	4.1	241
9	Ordered mesoporous carbons synthesized by a modified sol-gel process for electrosorptive removal of sodium chloride. <i>Carbon</i> , 2009, 47, 775-781.	5.4	229
10	Carbon nanotube/graphene composite for enhanced capacitive deionization performance. <i>Carbon</i> , 2013, 59, 464-471.	5.4	224
11	Photocatalytic reduction of carbon dioxide into gaseous hydrocarbon using TiO <sub>2</sub> pellets. <i>Catalysis Today</i> , 2006, 115, 269-273.	2.2	222
12	Brackish water desalination by a hybrid forward osmosis-nanofiltration system using divalent draw solute. <i>Desalination</i> , 2012, 284, 175-181.	4.0	208
13	Relating solution physicochemical properties to internal concentration polarization in forward osmosis. <i>Journal of Membrane Science</i> , 2011, 379, 459-467.	4.1	201
14	Effects of working temperature on separation performance, membrane scaling and cleaning in forward osmosis desalination. <i>Desalination</i> , 2011, 278, 157-164.	4.0	196
15	A study of the capacitive deionisation performance under various operational conditions. <i>Journal of Hazardous Materials</i> , 2012, 213-214, 491-497.	6.5	182
16	Removal of VOCs by photocatalysis process using adsorption enhanced TiO <sub>2</sub> -SiO <sub>2</sub> catalyst. <i>Chemical Engineering and Processing: Process Intensification</i> , 2006, 45, 959-964.	1.8	177
17	Using graphene nano-flakes as electrodes to remove ferric ions by capacitive deionization. <i>Separation and Purification Technology</i> , 2010, 75, 8-14.	3.9	174
18	Effects of membrane orientation on process performance in forward osmosis applications. <i>Journal of Membrane Science</i> , 2011, 382, 308-315.	4.1	170

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19	Using zwitterionic amino acid L-DOPA to modify the surface of thin film composite polyamide reverse osmosis membranes to increase their fouling resistance. <i>Journal of Membrane Science</i> , 2012, 401-402, 68-75.	4.1	163
20	Development of novel MnO <sub>2</sub> /nanoporous carbon composite electrodes in capacitive deionization technology. <i>Desalination</i> , 2011, 276, 199-206.	4.0	158
21	Graphene nanosheets reduced by a multi-step process as high-performance electrode material for capacitive deionisation. <i>Carbon</i> , 2012, 50, 2315-2321.	5.4	146
22	Assembly of Ni-Al layered double hydroxide and graphene electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2014, 134, 127-135.	2.6	146
23	Improving the fouling resistance of brackish water membranes via surface modification with graphene oxide functionalized chitosan. <i>Desalination</i> , 2015, 365, 99-107.	4.0	140
24	Kinetics and thermodynamics study for electrosorption of NaCl onto carbon nanotubes and carbon nanofibers electrodes. <i>Chemical Physics Letters</i> , 2010, 485, 161-166.	1.2	121
25	Kinetic modelling for photosynthesis of hydrogen and methane through catalytic reduction of carbon dioxide with water vapour. <i>Catalysis Today</i> , 2008, 131, 125-129.	2.2	117
26	Photocatalytic TiO <sub>2</sub> /adsorbent nanocomposites prepared via wet chemical impregnation for wastewater treatment: A review. <i>Applied Catalysis A: General</i> , 2009, 371, 1-9.	2.2	116
27	A Short Review of Membrane Fouling in Forward Osmosis Processes. <i>Membranes</i> , 2017, 7, 30.	1.4	112
28	Fouling resistant zwitterionic surface modification of reverse osmosis membranes using amino acid L-cysteine. <i>Desalination</i> , 2013, 324, 79-86.	4.0	111
29	Wettability and its influence on graphene nanosheets as electrode material for capacitive deionization. <i>Chemical Physics Letters</i> , 2012, 548, 23-28.	1.2	110
30	Single-walled carbon nanotubes and polyaniline composites for capacitive deionization. <i>Desalination</i> , 2012, 290, 125-129.	4.0	109
31	Fine-Tuning the Surface of Forward Osmosis Membranes via Grafting Graphene Oxide: Performance Patterns and Biofouling Propensity. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 18004-18016.	4.0	101
32	Study of fouling and scaling in capacitive deionisation by using dissolved organic and inorganic salts. <i>Journal of Hazardous Materials</i> , 2013, 244-245, 387-393.	6.5	96
33	Costs and financial feasibility of malaria elimination. <i>Lancet, The</i> , 2010, 376, 1604-1615.	6.3	91
34	Effective in-situ chemical surface modification of forward osmosis membranes with polydopamine-induced graphene oxide for biofouling mitigation. <i>Desalination</i> , 2016, 385, 126-137.	4.0	91
35	Using capacitive deionisation for inland brackish groundwater desalination in a remote location. <i>Desalination</i> , 2013, 308, 154-160.	4.0	88
36	Desalination of seawater ion complexes by MFI-type zeolite membranes: Temperature and long term stability. <i>Journal of Membrane Science</i> , 2014, 453, 126-135.	4.1	88

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37	Graphene oxide-polybenzimidazolium nanocomposite anion exchange membranes for electro dialysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24728-24739.	5.2	87
38	Ion-selective carbon nanotube electrodes in capacitive deionisation. <i>Electrochimica Acta</i> , 2013, 91, 11-19.	2.6	86
39	A study of the long-term operation of capacitive deionisation in inland brackish water desalination. <i>Desalination</i> , 2013, 320, 80-85.	4.0	85
40	Polyaniline-modified activated carbon electrodes for capacitive deionisation. <i>Desalination</i> , 2014, 333, 101-106.	4.0	85
41	Orthophosphate removal from domestic wastewater using limestone and granular activated carbon. <i>Desalination</i> , 2011, 271, 265-272.	4.0	82
42	Reduction of metal leaching in brown coal fly ash using geopolymers. <i>Journal of Hazardous Materials</i> , 2004, 114, 59-67.	6.5	81
43	Coating zwitterionic amino acid L-DOPA to increase fouling resistance of forward osmosis membrane. <i>Desalination</i> , 2013, 312, 82-87.	4.0	80
44	Review of nanomaterials-assisted ion exchange membranes for electromembrane desalination. <i>Npj Clean Water</i> , 2018, 1, .	3.1	79
45	Thermodynamics and kinetics of adsorption of ammonium ions by graphene laminate electrodes in capacitive deionization. <i>Desalination</i> , 2015, 357, 178-188.	4.0	78
46	Graphene/Polyaniline nanocomposite as electrode material for membrane capacitive deionization. <i>Desalination</i> , 2014, 344, 274-279.	4.0	77
47	Preparation and capacitance properties of graphene/NiAl layered double-hydroxide nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2013, 396, 251-257.	5.0	73
48	Evaluating the antifouling effects of silver nanoparticles regenerated by TiO <sub>2</sub> on forward osmosis membrane. <i>Journal of Membrane Science</i> , 2014, 454, 264-271.	4.1	68
49	Single-Step Assembly of Multifunctional Poly(tannic acid)-Graphene Oxide Coating To Reduce Biofouling of Forward Osmosis Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 17519-17528.	4.0	66
50	Nanostructuring of pseudocapacitive MnFe <sub>2</sub> O <sub>4</sub> /Porous rGO electrodes in capacitive deionization. <i>Electrochimica Acta</i> , 2019, 306, 1-8.	2.6	65
51	Characterising vehicle emissions from the burning of biodiesel made from vegetable oil. <i>Environmental Technology (United Kingdom)</i> , 2003, 24, 1253-1260.	1.2	61
52	The synergistic effect of ozonation and photocatalysis on color removal from reused water. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 196, 24-32.	2.0	61
53	Trapping and decomposing of color compounds from recycled water by TiO <sub>2</sub> coated activated carbon. <i>Journal of Environmental Management</i> , 2009, 90, 3217-3225.	3.8	57
54	Photosynthesis of hydrogen and methane as key components for clean energy system. <i>Science and Technology of Advanced Materials</i> , 2007, 8, 89-92.	2.8	56

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55	Using shell-tunable mesoporous Fe <sub>3</sub> O <sub>4</sub> @HMS and magnetic separation to remove DDT from aqueous media. <i>Journal of Hazardous Materials</i> , 2009, 171, 459-464.	6.5	56
56	Preparing MnO <sub>2</sub> /PSS/CNTs composite electrodes by layer-by-layer deposition of MnO <sub>2</sub> in the membrane capacitive deionisation. <i>Desalination</i> , 2012, 286, 108-114.	4.0	53
57	Evaluation of the salt removal efficiency of capacitive deionisation: Kinetics, isotherms and thermodynamics. <i>Chemical Engineering Journal</i> , 2013, 223, 704-713.	6.6	53
58	Investigation of the effects of ion and water interaction on structure and chemistry of silicalite MFI type zeolite for its potential use as a seawater desalination membrane. <i>Journal of Materials Chemistry</i> , 2010, 20, 4675.	6.7	43
59	Using FO as pre-treatment of RO for high scaling potential brackish water: Energy and performance optimisation. <i>Journal of Membrane Science</i> , 2015, 492, 430-438.	4.1	43
60	Reduced graphene oxide/polyaniline conductive anion exchange membranes in capacitive deionisation process. <i>Electrochimica Acta</i> , 2015, 182, 383-390.	2.6	39
61	Fouling characteristics and their implications on cleaning of a FO-RO pilot process for treating brackish surface water. <i>Desalination</i> , 2016, 394, 91-100.	4.0	39
62	Chemically crosslinked rGO laminate film as an ion selective barrier of composite membrane. <i>Journal of Membrane Science</i> , 2016, 515, 204-211.	4.1	39
63	Using inorganic polymer to reduce leach rates of metals from brown coal fly ash. <i>Minerals Engineering</i> , 2004, 17, 159-166.	1.8	37
64	Perceptions of racial confrontation: The role of color blindness and comment ambiguity.. <i>Cultural Diversity and Ethnic Minority Psychology</i> , 2013, 19, 92-96.	1.3	37
65	Graphene films of controllable thickness as binder-free electrodes for high performance supercapacitors. <i>Electrochimica Acta</i> , 2014, 130, 791-799.	2.6	35
66	Recycle of calcium waste into mesoporous carbons as sustainable electrode materials for capacitive deionization. <i>Microporous and Mesoporous Materials</i> , 2014, 183, 91-98.	2.2	35
67	A case study of fouling development and flux reversibility of treating actual lake water by forward osmosis process. <i>Desalination</i> , 2015, 357, 55-64.	4.0	35
68	Insights on Tuning the Nanostructure of rGO Laminate Membranes for Low Pressure Osmosis Process. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22509-22517.	4.0	35
69	Adsorption characteristics of N-nitrosodimethylamine from aqueous solution on surface-modified activated carbons. <i>Journal of Hazardous Materials</i> , 2009, 168, 51-56.	6.5	32
70	Using oxygen plasma treatment to improve the performance of electrodes for capacitive water deionization. <i>Electrochimica Acta</i> , 2013, 106, 494-499.	2.6	31
71	Synthesis and characterisation of superhydrophilic conductive heterogeneous PANI/PVDF anion-exchange membranes. <i>Desalination</i> , 2015, 362, 59-67.	4.0	31
72	Interfacial Force-Assisted In-Situ Fabrication of Graphene Oxide Membrane for Desalination. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 27205-27214.	4.0	31

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73	Removal of DDT from aqueous solutions using mesoporous silica materials. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 490-496.	1.6	30
74	Forward osmosis as a pre-treatment for treating coal seam gas associated water: Flux and fouling behaviour. <i>Desalination</i> , 2017, 403, 144-152.	4.0	30
75	Using modelling approach to validate a bench scale forward osmosis pre-treatment process for desalination. <i>Desalination</i> , 2014, 350, 1-13.	4.0	29
76	Diesel exhaust particulate matter induces multinucleate cells and zinc transporterâ€dependent apoptosis in human airway cells. <i>Immunology and Cell Biology</i> , 2007, 85, 617-622.	1.0	28
77	Core/Shell Microstructure Induced Synergistic Effect for Efficient Water-Droplet Formation and Cloud-Seeding Application. <i>ACS Nano</i> , 2017, 11, 12318-12325.	7.3	28
78	An alternative membrane treatment process to produce low-salt and high-nutrient recycled water suitable for irrigation purposes. <i>Desalination</i> , 2011, 274, 144-149.	4.0	27
79	Accelerated seeded precipitation pre-treatment of municipal wastewater to reduce scaling. <i>Chemosphere</i> , 2008, 72, 243-249.	4.2	26
80	Electrostatically-coupled graphene oxide nanocomposite cation exchange membrane. <i>Journal of Membrane Science</i> , 2020, 594, 117457.	4.1	26
81	A study on the synergistic adsorptive and photocatalytic activities of TiO <sub>2</sub> âˆ™xN <sub>x</sub> /Beta composite catalysts under visible light irradiation. <i>Chemical Engineering Journal</i> , 2010, 165, 301-309.	6.6	25
82	Assessing the effect of surface modification of polyamide RO membrane by l-DOPA on the short range physiochemical interactions with biopolymer fouling on the membrane. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 120, 222-228.	2.5	25
83	Asymmetric configuration of pseudocapacitive composite and rGO electrodes for enhanced capacitive deionization. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 392-403.	1.2	25
84	A statistical experimental investigation on arsenic removal using capacitive deionization. <i>Desalination and Water Treatment</i> , 2016, 57, 3254-3260.	1.0	24
85	Synthesis of TiO <sub>2</sub> â€graphene composites via visible-light photocatalytic reduction of graphene oxide. <i>Journal of Materials Research</i> , 2011, 26, 970-973.	1.2	23
86	A novel charge-driven self-assembly method to prepare visible-light sensitive TiO <sub>2</sub> /activated carbon composites for dissolved organic compound removal. <i>Chemical Engineering Journal</i> , 2011, 168, 485-492.	6.6	23
87	Designing hierarchical porous features of ZSM-5 zeolites via Si/Al ratio and their dynamic behavior in seawater ion complexes. <i>Microporous and Mesoporous Materials</i> , 2013, 173, 78-85.	2.2	23
88	A Novel Fabrication Approach for Multifunctional Graphene-based Thin Film Nano-composite Membranes with Enhanced Desalination and Antibacterial Characteristics. <i>Scientific Reports</i> , 2017, 7, 7490.	1.6	22
89	Amphiphilic Janus 3D MoS <sub>2</sub> /rGO Nanocomposite for Removing Oil from Wastewater. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 1266-1273.	1.8	19
90	Visible-light assisted methylene blue (MB) removal by novel TiO <sub>2</sub> /adsorbent nanocomposites. <i>Water Science and Technology</i> , 2010, 61, 2863-2871.	1.2	18

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91	When Whites' Attempts to Be Multicultural Backfire in Intergroup Interactions. <i>Social and Personality Psychology Compass</i> , 2015, 9, 581-592.	2.0	18
92	High performance boron removal from seawater by two-pass SWRO system with different membranes. <i>Water Science and Technology: Water Supply</i> , 2010, 10, 327-336.	1.0	17
93	Facile fouling resistant surface modification of microfiltration cellulose acetate membranes by using amino acid l-DOPA. <i>Water Science and Technology</i> , 2013, 68, 901-908.	1.2	17
94	Strategies for tuning hierarchical porosity of 3D rGO to optimize ion electrosorption. <i>2D Materials</i> , 2019, 6, 045010.	2.0	17
95	2D MoS <sub>2</sub> nanoplatelets for fouling resistant membrane surface. <i>Journal of Colloid and Interface Science</i> , 2021, 590, 415-423.	5.0	17
96	Electrostatically coupled SiO <sub>2</sub> nanoparticles/poly (L-DOPA) antifouling coating on a nanofiltration membrane. <i>Nanotechnology</i> , 2020, 31, 275602.	1.3	16
97	Langmuir-Blodgett assembly of sulphonated graphene nanosheets into single- and multi-layered thin films. <i>Chemical Physics Letters</i> , 2013, 568-569, 101-105.	1.2	14
98	Water vapor harvesting nanostructures through bioinspired gradient-driven mechanism. <i>Chemical Physics Letters</i> , 2019, 728, 167-173.	1.2	14
99	Enhanced Degradation Efficiency of Toluene Using Titania/Silica Photocatalysis as a Regeneration Process. <i>Environmental Technology (United Kingdom)</i> , 2006, 27, 359-366.	1.2	12
100	Highly Permeable MoS <sub>2</sub> Nanosheet Porous Membrane for Organic Matter Removal. <i>ACS Omega</i> , 2022, 7, 2419-2428.	1.6	12
101	Photocatalytic Production of Methane and Hydrogen Through Reduction of Carbon Dioxide with Water Using Titania Pellets. <i>International Journal of Green Energy</i> , 2006, 3, 283-290.	2.1	11
102	Precipitation enhancement by cloud seeding using the shell structured TiO <sub>2</sub> /NaCl aerosol as revealed by new model for cloud seeding experiments. <i>Atmospheric Research</i> , 2018, 212, 202-212.	1.8	11
103	Three-Dimensional Modelling of Precipitation Enhancement by Cloud Seeding in Three Different Climate Zones. <i>Atmosphere</i> , 2019, 10, 294.	1.0	11
104	Effect of chlorine and acid injection on hollow fiber RO for SWRO. <i>Desalination</i> , 2010, 262, 115-120.	4.0	10
105	Fabrication and characterisation of an electrospun tubular 3D scaffold platform of poly(vinylidene fluoride) for tissue engineering. <i>Biomaterials Science, Polymer Edition</i> , 2014, 25, 2023-2041.	1.9	10
106	A parametric study of visible-light sensitive TiO <sub>2</sub> photocatalysts synthesis via a facile sol-gel N-doping method. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 1153-1165.	1.3	10
107	Using MF-NF-RO train to produce low salt and high nutrient value recycled water for agricultural irrigation. <i>Water Science and Technology</i> , 2008, 58, 1837-1840.	1.2	9
108	Improving the capacitive deionisation performance by optimising pore structures of the electrodes. <i>Water Science and Technology</i> , 2010, 61, 1227-1233.	1.2	9

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109	Cellulose acetate-MoS <sub>2</sub> amphiphilic Janus-like fibrous sponge for removing oil from wastewater. Environmental Technology and Innovation, 2021, 24, 101070.	3.0	9
110	Enhanced Ice Nucleation and Growth by Porous Composite of RGO and Hydrophilic Silica Nanoparticles. Journal of Physical Chemistry C, 2020, 124, 677-685.	1.5	8
111	Graphene-PSS-DOPA nanocomposite cation exchange membranes for electro dialysis desalination. Environmental Science: Nano, 2020, 7, 3108-3123.	2.2	8
112	Adsorption Capacities of Hygroscopic Materials Based on NaCl-TiO <sub>2</sub> and NaCl-SiO <sub>2</sub> Core/Shell Particles. Journal of Nanotechnology, 2020, 2020, 1-16.	1.5	8
113	Photocatalytic Decolorization of Lanazol Blue CE Dye Solution Using a Flat-Plate Reactor. Journal of Environmental Engineering, ASCE, 2005, 131, 102-107.	0.7	7
114	Biosorption of bovine serum albumin by Ulva lactuca biomass from industrial wastewater: Equilibrium, kinetic and thermodynamic study. Journal of Hazardous Materials, 2010, 184, 597-602.	6.5	7
115	Minimizing the Lead-Acid Battery Bank Capacity through a Solar PV - Wind Turbine Hybrid System for a high-altitude village in the Nepal Himalayas. Energy Procedia, 2014, 57, 1516-1525.	1.8	7
116	Influence of hydrophobic and electrostatic membrane surface properties on biofouling in a submerged membrane bioreactor under different filtration modes. Desalination and Water Treatment, 2016, 57, 26641-26647.	1.0	6
117	Developing Nano-Structured Carbon Electrodes for Capacitive Brackish Water Desalination. , 0, , .		5
118	Functionalized Graphene as Electrode Material for Capacitive Deionization. Science of Advanced Materials, 2013, 5, 1111-1116.	0.1	5
119	Evaluating oil removal by amphiphilic MoS <sub>2</sub> /cellulose acetate fibrous sponge in a flow-through reactor and by artificial neural network. Environmental Nanotechnology, Monitoring and Management, 2022, 18, 100684.	1.7	4
120	Enhancing the Reuse of Treated Effluent by Photocatalytic Process. Journal of Advanced Oxidation Technologies, 2007, 10, .	0.5	3
121	Response to "Comments on "carbon nanotube/graphene composite for enhanced capacitive deionization performance" by Y. Wimalasiri and L. Zou". Carbon, 2015, 81, 847-849.	5.4	3
122	The influence of seawater ions on the structural features of MFI, FAU and LTA zeolites. , 2010, , .		2
123	Protein Fouling of Cellulose Acetate Microfiltration Membranes Modified by the Deposition of Amino Acid L-DOPA. Procedia Engineering, 2012, 44, 1177-1179.	1.2	2
124	The influences of deposited silica nanoparticles on a forward osmosis membrane. , 0, 80, 18-26.		2
125	A Comparative Study on Preparation of TiO <sub>2</sub> Pellets as Photocatalysts Based on Different Precursors. Materials Science Forum, 2005, 475-479, 4165-4170.	0.3	1
126	Removal of Color Compounds from Recycled Water Using Combined Activated Carbon Adsorption and AOP Decomposition. Journal of Advanced Oxidation Technologies, 2009, 12, .	0.5	1



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127	Efficiency of Graphene-Based Forward Osmosis Membranes. , 2020, , 309-334.		0