David Jassby

List of Publications by Year
in descending order

66	3,795	117571	128225
papers	citations	34 h-index	60 g-index

68	68	68	4010
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Frequency-dependent stability of CNT Joule heaters in ionizable media and desalination processes. Nature Nanotechnology, 2017, 12, 557-563.	15.6	215
2	Organic fouling inhibition on electrically conducting carbon nanotubeâ€“polyvinyl alcohol composite ultrafiltration membranes. Journal of Membrane Science, 2014, 468, 1-10.	4.1	211
3	Delivery, uptake, fate, and transport of engineered nanoparticles in plants: a critical review and data analysis. Environmental Science: Nano, 2019, 6, 2311-2331.	2.2	192
4	Aquatic Biofouling Prevention by Electrically Charged Nanocomposite Polymer Thin Film Membranes. Environmental Science & Technology, 2013, 47, 2760-2768.	4.6	170
5	Fouling and wetting in the membrane distillation driven wastewater reclamation process â€“ A review. Advances in Colloid and Interface Science, 2019, 269, 370-399.	7.0	164
6	The role of nanotechnology in industrial water treatment. Nature Nanotechnology, 2018, 13, 670-672.	15.6	156
7	Stable Superhydrophobic Ceramic-Based Carbon Nanotube Composite Desalination Membranes. Nano Letters, 2018, 18, 5514-5521.	4.5	153
8	Electrochemical removal of hexavalent chromium using electrically conducting carbon nanotube/polymer composite ultrafiltration membranes. Journal of Membrane Science, 2017, 531, 160-171.	4.1	143
9	Polyaniline-Coated Carbon Nanotube Ultrafiltration Membranes: Enhanced Anodic Stability for In Situ Cleaning and Electro-Oxidation Processes. ACS Applied Materials & Interfaces, 2016, 8, 22574-22584.	4.0	136
10	Enhanced Oxidative and Adsorptive Removal of Diclofenac in Heterogeneous Fenton-like Reaction with Sulfide Modified Nanoscale Zerovalent Iron. Environmental Science & Technology, 2018, 52, 6466-6475.	4.6	129
11	Coupling Underwater Superoleophobic Membranes with Magnetic Pickering Emulsions for Fouling-Free Separation of Crude Oil/Water Mixtures: An Experimental and Theoretical Study. ACS Nano, 2015, 9, 9930-9941.	7.3	123
12	Surfactant-stabilized oil separation from water using ultrafiltration and nanofiltration. Journal of Membrane Science, 2017, 529, 159-169.	4.1	117
13	Electroactive Membranes for Water Treatment: Enhanced Treatment Functionalities, Energy Considerations, and Future Challenges. Accounts of Chemical Research, 2019, 52, 1177-1186.	7.6	116
14	Microbial Attachment Inhibition through Low-Voltage Electrochemical Reactions on Electrically Conducting Membranes. Environmental Science & Technology, 2015, 49, 12741-12750.	4.6	114
15	Enhanced Flux and Electrochemical Cleaning of Silicate Scaling on Carbon Nanotube-Coated Membrane Distillation Membranes Treating Geothermal Brines. ACS Applied Materials & Interfaces, 2017, 9, 38594-38605.	4.0	83
16	Nickel-Based Membrane Electrodes Enable High-Rate Electrochemical Ammonia Recovery. Environmental Science & Technology, 2018, 52, 8930-8938.	4.6	83
17	Hydrophobic nanostructured wood membrane for thermally efficient distillation. Science Advances, 2019, 5, eaaw3203.	4.7	81
18	Electroconductive and electroresponsive membranes for water treatment. Reviews in Chemical Engineering, 2016, 32, 533-550.	2.3	80

#	Article	IF	Citations
19	Laser-induced graphene and carbon nanotubes as conductive carbon-based materials in environmental technology. Materials Today, 2020, 34, 115-131.	8.3	77
20	Wastewater Reuse for Agriculture: Development of a Regional Water Reuse Decision-Support Model (RWRM) for Cost-Effective Irrigation Sources. Environmental Science & Technology, 2016, 50, 9390-9399.	4.6	72
21	Active H₂ Harvesting Prevents Methanogenesis in Microbial Electrolysis Cells. Environmental Science and Technology Letters, 2016, 3, 286-290.	3.9	70
22	Potential-Driven Electron Transfer Lowers the Dissociation Energy of the Câ€“F Bond and Facilitates Reductive Defluorination of Perfluorooctane Sulfonate (PFOS). ACS Applied Materials & Interfaces, 2019, 11, 33913-33922.	4.0	67
23	Hydrophobic Gas Transfer Membranes for Wastewater Treatment and Resource Recovery. Environmental Science & Technology, 2019, 53, 11618-11635.	4.6	64
24	Electrochemical mineral scale prevention and removal on electrically conducting carbon nanotube â€“ polyamide reverse osmosis membranes. Environmental Sciences: Processes and Impacts, 2014, 16, 1300-1308.	1.7	63
25	Structural Dependence of Reductive Defluorination of Linear PFAS Compounds in a UV/Electrochemical System. Environmental Science & Technology, 2020, 54, 10668-10677.	4.6	62
26	Saline Water-Based Mineralization Pathway for Gigatonne-Scale CO₂ Management. ACS Sustainable Chemistry and Engineering, 2021, 9, 1073-1089.	3.2	53
27	Delivery, Fate, and Mobility of Silver Nanoparticles in Citrus Trees. ACS Nano, 2020, 14, 2966-2981.	7.3	49
28	Treating anaerobic sequencing batch reactor effluent with electrically conducting ultrafiltration and nanofiltration membranes for fouling control. Journal of Membrane Science, 2016, 504, 104-112.	4.1	48
29	Mineral Scale Prevention on Electrically Conducting Membrane Distillation Membranes Using Induced Electrophoretic Mixing. Environmental Science & Technology, 2020, 54, 3678-3690.	4.6	48
30	The implications of drought and water conservation on the reuse of municipal wastewater: Recognizing impacts and identifying mitigation possibilities. Water Research, 2017, 124, 472-481.	5.3	47
31	Novel thermal efficiency-based model for determination of thermal conductivity of membrane distillation membranes. Journal of Membrane Science, 2018, 548, 298-308.	4.1	43
32	Coupling hydrothermal liquefaction and membrane distillation to treat anaerobic digestate from food and dairy farm waste. Bioresource Technology, 2018, 267, 408-415.	4.8	43
33	Hydrothermal carbonization of anaerobic digestate and manure from a dairy farm on energy recovery and the fate of nutrients. Bioresource Technology, 2021, 333, 125164.	4.8	42
34	Will Membranes Break Barriers on Volatile Fatty Acid Recovery from Anaerobic Digestion?. ACS ES&T Engineering, 2021, 1, 141-153.	3.7	39
35	Enhancing boron rejection on electrically conducting reverse osmosis membranes through local electrochemical pH modification. Desalination, 2020, 476, 114212.	4.0	34
36	The interactions and adsorption mechanisms of ternary heavy metals on boron nitride. Environmental Research, 2020, 183, 109240.	3.7	34

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37	Efficient ammonia recovery from wastewater using electrically conducting gas stripping membranes. Environmental Science: Nano, 2020, 7, 1759-1771.	2.2	29
38	Impact of Physical and Chemical Cleaning Agents on Specific Biofilm Components and the Implications for Membrane Biofouling Management. Industrial & Engineering Chemistry Research, 2018, 57, 3359-3370.	1.8	24
39	Enhanced removal of per- and polyfluoroalkyl substances in complex matrices by polyDADMAC-coated regenerable granular activated carbon. Environmental Pollution, 2022, 294, 118603.	3.7	24
40	Unintended consequences of water conservation on the use of treated municipal wastewater. Nature Sustainability, 2020, 3, 628-635.	11.5	22
41	Comparison of the colloidal stability, mobility, and performance of nanoscale zerovalent iron and sulfidated derivatives. Journal of Hazardous Materials, 2020, 396, 122691.	6.5	22
42	Conducting thermal energy to the membrane/water interface for the enhanced desalination of hypersaline brines using membrane distillation. Journal of Membrane Science, 2021, 626, 119188.	4.1	21
43	Linker-Free Magnetite-Decorated Gold Nanoparticles (Fe3O4-Au): Synthesis, Characterization, and Application for Electrochemical Detection of Arsenic (III). Sensors, 2021, 21, 883.	2.1	19
44	Performance, Energy and Cost of Produced Water Treatment by Chemical and Electrochemical Coagulation. Water (Switzerland), 2020, 12, 3426.	1.2	17
45	Field-Induced Redistribution of Surfactants at the Oil/Water Interface Reduces Membrane Fouling on Electrically Conducting Carbon Nanotube UF Membranes. Environmental Science & Technology, 2018, 52, 11591-11600.	4.6	16
46	Direct Potable Reuse: Are We Ready? A Review of Technological, Economic, and Environmental Considerations. ACS ES&T Engineering, 2022, 2, 273-291.	3.7	16
47	Removal of As(III) by Electrically Conducting Ultrafiltration Membranes. Water Research, 2021, 204, 117592.	5.3	15
48	Impact of ageing on the fate of molybdate-zerovalent iron nanohybrid and its subsequent effect on cyanobacteria (Microcystis aeruginosa) growth in aqueous media. Water Research, 2018, 140, 135-147.	5.3	14
49	Electrically Mediated Membrane Pore Gating via Grafted Polymer Brushes. , 2019, 1, 647-654.		13
50	Photolysis of chloral hydrate in water with 254â€¯nm ultraviolet: Kinetics, influencing factors, mechanisms, and products. Chemosphere, 2019, 218, 104-109.	4.2	12
51	Bismuth Subcarbonate Decorated Reduced Graphene Oxide Nanocomposite for the Sensitive Stripping Voltammetry Analysis of Pb(II) and Cd(II) in Water. Sensors, 2020, 20, 6085.	2.1	12
52	Development of robust and superamphiphobic membranes using reduced graphene oxide (rGO)/PVDF-HFP nanocomposite mats for membrane distillation. Environmental Science: Nano, 2021, 8, 2883-2893.	2.2	12
53	Nitrate Removal in an Electrically Charged Granular-Activated Carbon Column. Environmental Science & Technology, 2021, 55, 16597-16606.	4.6	11
54	Produced Water Desalination via Pervaporative Distillation. Water (Switzerland), 2020, 12, 3560.	1.2	10

#	Article	IF	Citations
55	Toward Rapid Detection of Trace Lead and Cadmium by Anodic Stripping Voltammetry in Complex Wastewater Streams. ACS ES&T Engineering, 2021, 1, 1509-1516.	3.7	9
56	Desalinating a real hyper-saline pre-treated produced water via direct-heat vacuum membrane distillation. Water Research, 2022, 218, 118503.	5.3	9
57	Electroprecipitation Mechanism Enabling Silica and Hardness Removal through Aluminum-Based Electrocoagulation. ACS ES&T Engineering, 2022, 2, 1200-1210.	3.7	8
58	Affordable, flexible, and modular: a guide to open-source membrane-based water treatment systems. Environmental Science: Water Research and Technology, 2016, 2, 965-974.	1.2	7
59	Conductive reverse osmosis membrane for electrochemical chlorine reduction and sustainable brackish water treatment. Chemical Engineering Journal, 2022, 435, 134858.	6.6	7
60	Multiplexed Anodic Stripping Voltammetry Detection of Heavy Metals in Water Using Nanocomposites Modified Screen-Printed Electrodes Integrated With a 3D-Printed Flow Cell. Frontiers in Chemistry, 2022, 10, 815805.	1.8	7
61	Elucidating the role of graphene oxide layers in enhancing N-Nitrosodimethylamine (NDMA) rejection and antibiofouling property of RO membrane simultaneously. Journal of Membrane Science, 2022, 643, 120043.	4.1	6
62	Single and binary protein electroultrafiltration using poly(vinyl-alcohol)-carbon nanotube (PVA-CNT) composite membranes. PLoS ONE, 2020, 15, e0228973.	1.1	5
63	Development of updated algorithms to define particle dynamics in Lake Tahoe (CAâ€NV) USA for total maximum daily load. Water Resources Research, 2013, 49, 7627-7643.	1.7	3
64	The evolution of metal size and partitioning throughout the wastewater treatment train. Journal of Hazardous Materials, 2021, 402, 123761.	6.5	2
65	Mineral Dissolution under Electric Stimulation. Journal of Physical Chemistry C, 2020, 124, 16515-16523.	1.5	1
66	Evaluation and Optimization of Treatment Technologies Treating Groundwater from the Arbuckle-Timbered Hills Aquifer in Oklahoma. ACS ES&T Water, 2021, 1, 1380-1389.	2.3	1