

Jonathan A Brant

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,843
citations

687220

13
h-index

580701

25
g-index

26
all docs

26
docs citations

26
times ranked

2191
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing short-range membrane-colloid interactions using surface energetics. <i>Journal of Membrane Science</i> , 2002, 203, 257-273.	4.1	379
2	Aggregation and Deposition Characteristics of Fullerene Nanoparticles in Aqueous Systems. <i>Journal of Nanoparticle Research</i> , 2005, 7, 545-553.	0.8	316
3	Characterizing the Impact of Preparation Method on Fullerene Cluster Structure and Chemistry. <i>Langmuir</i> , 2006, 22, 3878-3885.	1.6	258
4	Comparison of Electrokinetic Properties of Colloidal Fullerenes (n-C60) Formed Using Two Procedures. <i>Environmental Science & Technology</i> , 2005, 39, 6343-6351.	4.6	229
5	Superhydrophobic dual layer functionalized titanium dioxide/polyvinylidene fluoride-co-hexafluoropropylene (TiO ₂ /PH) nanofibrous membrane for high flux membrane distillation. <i>Journal of Membrane Science</i> , 2017, 537, 140-150.	4.1	119
6	Heteroaggregation of Titanium Dioxide Nanoparticles with Natural Clay Colloids. <i>Environmental Science & Technology</i> , 2015, 49, 6608-6616.	4.6	116
7	Membrane-Colloid Interactions: Comparison of Extended DLVO Predictions with AFM Force Measurements. <i>Environmental Engineering Science</i> , 2002, 19, 413-427.	0.8	112
8	Bio-inspired superhydrophobic and superoleophilic nanofibrous membranes for non-aqueous solvent and oil separation from water. <i>Separation and Purification Technology</i> , 2019, 210, 587-599.	3.9	58
9	Feasibility assessment of pervaporation for desalinating high-salinity brines. <i>Journal of Water Reuse and Desalination</i> , 2014, 4, 109-124.	1.2	45
10	Characterizing NF and RO membrane surface heterogeneity using chemical force microscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 280, 45-57.	2.3	39
11	Nanoparticle stability in lake water shaped by natural organic matter properties and presence of particulate matter. <i>Science of the Total Environment</i> , 2019, 656, 338-346.	3.9	33
12	Salt rejection and water flux through a tubular pervaporative polymer membrane designed for irrigation applications. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 1329-1339.	1.2	29
13	Propagation-of-uncertainty from contact angle and streaming potential measurements to XDLVO model assessments of membrane-colloid interactions. <i>Journal of Colloid and Interface Science</i> , 2014, 428, 191-198.	5.0	20
14	Magnetic Field Effects on pH and Electrical Conductivity: Implications for Water and Wastewater Treatment. <i>Environmental Engineering Science</i> , 2020, 37, 717-727.	0.8	15
15	Synthesis of polyamide thin-film nanocomposite membranes using surface modified imogolite nanotubes. <i>Journal of Membrane Science</i> , 2018, 563, 664-675.	4.1	13
16	Mechanistic analysis of microfiltration membrane fouling by buckminsterfullerene (C60) nanoparticles. <i>Journal of Membrane Science</i> , 2012, 415-416, 546-557.	4.1	10
17	Dispersing surface-modified imogolite nanotubes in polar and non-polar solvents. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	10
18	Effects of aluminogermanate imogolite nanotube orientation on mass transport across polyamide nanocomposite membranes. <i>Journal of Membrane Science</i> , 2019, 585, 38-51.	4.1	10

#	ARTICLE	IF	CITATIONS
19	Water transport mechanisms for salt-rejecting membranes driven by soil-water potentials. <i>Journal of Membrane Science</i> , 2018, 563, 107-114.	4.1	8
20	Interrelationships Between Flux, Membrane Properties, and Soil Water Transport in a Subsurface Pervaporation Irrigation System. <i>Environmental Engineering Science</i> , 2015, 32, 539-550.	0.8	7
21	A methodology for fabrication of thermomechanically activated switchable surface wettability. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	5
22	Buckminsterfullerene (C60) nanoparticle fouling of microfiltration membranes operated in a cross-flow configuration. <i>Separation and Purification Technology</i> , 2012, 100, 30-43.	3.9	4
23	Influence of membrane characteristics on performance in soil-membrane-water subsurface desalination irrigation systems. <i>Journal of Water Process Engineering</i> , 2019, 32, 100984.	2.6	3
24	Enhancing the Dissolution of Nano-Silver Using a Multidirectional Magnetic Field in Water Systems. <i>Environmental Engineering Science</i> , 2021, 38, 936-943.	0.8	3
25	Aggregation and Fouling Impacts in Determining Organic and Clay Removal by Electropositive Filtration. <i>Journal of Environmental Engineering, ASCE</i> , 2017, 143, .	0.7	2