Youngbin Baek

List of Publications by Year
in descending order

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33	1,752	361045 20	395343 33
papers	citations	h-index	g-index

33	33	33	2491
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-Performance Reverse Osmosis CNT/Polyamide Nanocomposite Membrane by Controlled Interfacial Interactions. ACS Applied Materials & Interfaces, 2014, 6, 2819-2829.	4.0	261
2	A carbon nanotube wall membrane for water treatment. Nature Communications, 2015, 6, 7109.	5.8	178
3	Carbon nanotube-based membranes: Fabrication and application to desalination. Journal of Industrial and Engineering Chemistry, 2012, 18, 1551-1559.	2.9	165
4	High performance and antifouling vertically aligned carbon nanotube membrane for water purification. Journal of Membrane Science, 2014, 460, 171-177.	4.1	142
5	Measuring hydrophilicity of RO membranes by contact angles via sessile drop and captive bubble method: A comparative study. Desalination, 2012, 303, 23-28.	4.0	132
6	Evaluation of surface properties of reverse osmosis membranes on the initial biofouling stages under no filtration condition. Journal of Membrane Science, 2010, 351, 112-122.	4.1	112
7	Biofouling occurrence process and its control in the forward osmosis. Desalination, 2013, 325, 30-36.	4.0	101
8	Carbon nanotube-bonded graphene hybrid aerogels and their application to water purification. Nanoscale, 2015, 7, 6782-6789.	2.8	77
9	The improvement of antibiofouling properties of a reverse osmosis membrane by oxidized CNTs. RSC Advances, 2014, 4, 32802.	1.7	74
10	Effect of surface properties of reverse osmosis membranes on biofouling occurrence under filtration conditions. Journal of Membrane Science, 2011, 382, 91-99.	4.1	71
11	Evaluation of carbon nanotube-polyamide thin-film nanocomposite reverse osmosis membrane: Surface properties, performance characteristics and fouling behavior. Journal of Industrial and Engineering Chemistry, 2017, 56, 327-334.	2.9	50
12	A Carbonaceous Membrane based on a Polymer of Intrinsic Microporosity (PIM-1) for Water Treatment. Scientific Reports, 2016, 6, 36078.	1.6	39
13	A high-performance and fouling resistant thin-film composite membrane prepared via coating TiO2 nanoparticles by sol-gel-derived spray method for PRO applications. Desalination, 2016, 397, 157-164.	4.0	38
14	Electroconductive Feed Spacer as a Tool for Biofouling Control in a Membrane System for Water Treatment. Environmental Science and Technology Letters, 2014, 1, 179-184.	3.9	37
15	Fouling and rejection behavior of carbon nanotube membranes. Desalination, 2014, 343, 180-186.	4.0	34
16	Ultrafiltration behavior of monoclonal antibodies and Fcâ€fusion proteins: Effects of physical properties. Biotechnology and Bioengineering, 2017, 114, 2057-2065.	1.7	31
17	New disinfectant to control biofouling of polyamide reverse osmosis membrane. Journal of Membrane Science, 2013, 427, 30-36.	4.1	30
18	Effects of Histidine and Sucrose on the Biophysical Properties of a Monoclonal Antibody. Pharmaceutical Research, 2017, 34, 629-639.	1.7	28

#	Article	IF	Citations
19	Intermolecular interactions in highly concentrated formulations of recombinant therapeutic proteins. Current Opinion in Biotechnology, 2018, 53, 59-64.	3.3	24
20	Autonomous Graphene Vessel for Suctioning and Storing Liquid Body of Spilled Oil. Scientific Reports, 2016, 6, 22339.	1.6	23
21	Mass Balance Model with Donnan Equilibrium Accurately Describes Unusual pH and Excipient Profiles during Diafiltration of Monoclonal Antibodies. Biotechnology Journal, 2019, 14, 1800517.	1.8	17
22	Improvement of vertically aligned carbon nanotube membranes: desalination potential, flux enhancement and scale-up. Desalination and Water Treatment, 2016, 57, 28133-28140.	1.0	15
23	Ultrafiltration behavior of an Fc-fusion protein: Filtrate flux data and modeling. Journal of Membrane Science, 2017, 528, 171-177.	4.1	15
24	pH variations during diafiltration due to buffer nonidealities. Biotechnology Progress, 2017, 33, 1555-1560.	1.3	9
25	Evaluation of long-term stability in capacitive deionization using activated carbon electrodes coated with ion exchange polymers. Korean Journal of Chemical Engineering, 2020, 37, 1199-1205.	1.2	8
26	Relationship between surface hydrophobicity and flux for membrane separation. RSC Advances, 2020, 10, 40043-40046.	1.7	7
27	Feasibility of supercritical CO₂ treatment for controlling biofouling in the reverse osmosis process. Biofouling, 2012, 28, 627-633.	0.8	6
28	Evaluation of thin-film nanocomposite RO membranes using TiO₂nanotubes and TiO₂nanoparticles: a comparative study. Desalination and Water Treatment, 2016, 57, 24674-24681.	1.0	6
29	Stereospecific interactions between histidine and monoclonal antibodies. Biotechnology and Bioengineering, 2019, 116, 2632-2639.	1.7	6
30	Relationships among Permeability, Membrane Roughness, and Eukaryote Inhabitation during Submerged Gravity-Driven Membrane (GDM) Filtration. Applied Sciences (Switzerland), 2020, 10, 8111.	1.3	6
31	Experimental analysis of transport characteristics for vertically aligned carbon nanotube membranes. Desalination and Water Treatment, 2013, 51, 5349-5354.	1.0	4
32	Development of a Hydrodynamic Cleaning Cycle for Ultrafiltration/Diafiltration Processes Used for Monoclonal Antibody Formulation. Industrial & Engineering Chemistry Research, 2018, 57, 16110-16115.	1.8	4
33	Effects of Impurities from Sugar Excipient on Filtrate Flux during Ultrafiltration and Diafiltration Process. Membranes, 2021, 11, 775.	1.4	2