Choonsoo Kim

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Redox-mediated electrochemical desalination for waste valorization in dairy production. Chemical Engineering Journal, 2022, 428, 131082.	12.7	30
2	Improvement in the desalination performance of membrane capacitive deionization with a bipolar electrode via an energy recovery process. Chemical Engineering Journal, 2022, 439, 135603.	12.7	9
3	Performance analysis of hydrated Zr(IV) oxide nanoparticle-impregnated anion exchange resin for selective phosphate removal. Journal of Colloid and Interface Science, 2021, 586, 741-747.	9.4	25
4	Electrochemical lithium recovery system through the simultaneous lithium enrichment via sustainable redox reaction. Chemical Engineering Journal, 2021, 420, 127715.	12.7	39
5	Effects of chloride and other anions on electrochemical chlorine evolution over self-doped TiO2 nanotube array. Korean Journal of Chemical Engineering, 2021, 38, 756-762.	2.7	0
6	Parametric investigation of the desalination performance in multichannel membrane capacitive deionization (MC-MCDI). Desalination, 2021, 503, 114950.	8.2	24
7	Ir0.11Fe0.25O0.64 as a highly efficient electrode for electrochlorination in dilute chloride solutions. Journal of Industrial and Engineering Chemistry, 2021, 102, 155-162.	5.8	9
8	Parametric study of multichannel desalination battery for low-energy electrochemical deionization of brackish water. Desalination, 2021, 515, 115188.	8.2	8
9	Enhanced desalination performance of nitrogen-doped porous carbon electrode in redox-mediated deionization. Desalination, 2021, 520, 115333.	8.2	12
10	High chlorine evolution performance of electrochemically reduced TiO ₂ nanotube array coated with a thin RuO ₂ layer by the self-synthetic method. RSC Advances, 2021, 11, 12107-12116.	3.6	4
11	Selective phosphate removal using layered double hydroxide/reduced graphene oxide (LDH/rGO) composite electrode in capacitive deionization. Journal of Colloid and Interface Science, 2020, 564, 1-7.	9.4	68
12	High performance electrochemical saline water desalination using silver and silver-chloride electrodes. Desalination, 2020, 476, 114216.	8.2	57
13	Enhancing the Desalination Performance of Capacitive Deionization Using a Layered Double Hydroxide Coated Activated Carbon Electrode. Applied Sciences (Switzerland), 2020, 10, 403.	2.5	10
14	Performance analysis of the multi-channel membrane capacitive deionization with porous carbon electrode stacks. Desalination, 2020, 479, 114315.	8.2	29
15	Short Review of Multichannel Membrane Capacitive Deionization: Principle, Current Status, and Future Prospect. Applied Sciences (Switzerland), 2020, 10, 683.	2.5	33
16	A short review on electrochemically self-doped TiO2 nanotube arrays: Synthesis and applications. Korean Journal of Chemical Engineering, 2019, 36, 1753-1766.	2.7	20
17	Novel Reuse Strategy in Flow-Electrode Capacitive Deionization with Switch Cycle Operation To Enhance Desalination Performance. Environmental Science and Technology Letters, 2019, 6, 739-744.	8.7	15
18	High-Desalination Performance via Redox Couple Reaction in the Multichannel Capacitive Deionization System. ACS Sustainable Chemistry and Engineering, 2019, 7, 16182-16189.	6.7	67

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19	Enhancement in Desalination Performance of Battery Electrodes via Improved Mass Transport Using a Multichannel Flow System. ACS Applied Materials & Interfaces, 2019, 11, 36580-36588.	8.0	30
20	Sodium ion removal by hydrated vanadyl phosphate for electrochemical water desalination. Journal of Materials Chemistry A, 2019, 7, 4175-4184.	10.3	46
21	Hybrid Electrochemical Desalination System Combined with an Oxidation Process. ACS Sustainable Chemistry and Engineering, 2018, 6, 1620-1626.	6.7	34
22	Potentialâ€Đependent, Switchable Ion Selectivity in Aqueous Media Using Titanium Disulfide. ChemSusChem, 2018, 11, 2091-2100.	6.8	33
23	Semi-continuous capacitive deionization using multi-channel flow stream and ion exchange membranes. Desalination, 2018, 425, 104-110.	8.2	51
24	RuO2 coated blue TiO2 nanotube array (blue TNA-RuO2) as an effective anode material in electrochemical chlorine generation. Journal of Industrial and Engineering Chemistry, 2018, 66, 478-483.	5.8	28
25	Confined Redox Reactions of lodide in Carbon Nanopores for Fast and Energyâ€Efficient Desalination of Brackish Water and Seawater. ChemSusChem, 2018, 11, 3460-3472.	6.8	46
26	Enhanced desalination via cell voltage extension of membrane capacitive deionization using an aqueous/organic bi-electrolyte. Desalination, 2018, 443, 56-61.	8.2	39
27	Effective adsorbent for arsenic removal: core/shell structural nano zero-valent iron/manganese oxide. Environmental Science and Pollution Research, 2017, 24, 24235-24242.	5.3	35
28	Concentrationâ€Gradient Multichannel Flowâ€Stream Membrane Capacitive Deionization Cell for High Desalination Capacity of Carbon Electrodes. ChemSusChem, 2017, 10, 4914-4920.	6.8	69
29	Pseudocapacitive Desalination of Brackish Water and Seawater with Vanadiumâ€Pentoxideâ€Decorated Multiwalled Carbon Nanotubes. ChemSusChem, 2017, 10, 3611-3623.	6.8	89
30	Titanium Disulfide: A Promising Low-Dimensional Electrode Material for Sodium Ion Intercalation for Seawater Desalination. Chemistry of Materials, 2017, 29, 9964-9973.	6.7	112
31	Influence of pore structure and cell voltage of activated carbon cloth as a versatile electrode material for capacitive deionization. Carbon, 2017, 122, 329-335.	10.3	149
32	Faradaic deionization of brackish and sea water via pseudocapacitive cation and anion intercalation into few-layered molybdenum disulfide. Journal of Materials Chemistry A, 2017, 5, 15640-15649.	10.3	167
33	Sonoelectrodeposition of RuO2 electrodes for high chlorine evolution efficiencies. Journal of the Korean Society of Water and Wastewater, 2017, 31, 397-407.	0.3	1
34	Development of templated RuO2 nanorod and nanosheet electrodes to improve the electrocatalytic activities for chlorine evolution. Journal of the Korean Society of Water and Wastewater, 2017, 31, 373-381.	0.3	1
35	Hydrogen peroxide generation in flow-mode capacitive deionization. Journal of Electroanalytical Chemistry, 2016, 776, 101-104.	3.8	60
36	Electrochemical softening using capacitive deionization (CDI) with zeolite modified carbon electrode (ZMCE). Desalination and Water Treatment, 2016, 57, 24682-24687.	1.0	5

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37	Na2FeP2O7 as a Novel Material for Hybrid Capacitive Deionization. Electrochimica Acta, 2016, 203, 265-271.	5.2	217
38	Capacitive deionization with Ca-alginate coated-carbon electrode for hardness control. Desalination, 2016, 392, 46-53.	8.2	89
39	Effect of doping level of colored TiO ₂ nanotube arrays fabricated by electrochemical self-doping on electrochemical properties. Physical Chemistry Chemical Physics, 2016, 18, 14370-14375.	2.8	51
40	Effect of Annealing Temperature on the Capacitive and Oxidant-generating Properties of an Electrochemically Reduced TiO2 Nanotube Array. Electrochimica Acta, 2016, 222, 1578-1584.	5.2	18
41	Evaluation of thin-film nanocomposite RO membranes using TiO ₂ nanotubes and TiO ₂ nanoparticles: a comparative study. Desalination and Water Treatment, 2016, 57, 24674-24681.	1.0	6
42	Electrochemical ozone production in inert supporting electrolytes on a boron-doped diamond electrode with a solid polymer electrolyte electrolyzer. Desalination and Water Treatment, 2016, 57, 10152-10158.	1.0	15
43	The Effect of Preparation Parameters in Thermal Decomposition of Ruthenium Dioxide Electrodes on Chlorine Electroâ€Catalytic Activity. Bulletin of the Korean Chemical Society, 2015, 36, 1411-1417.	1.9	5
44	Capacitive and Oxidant Generating Properties of Black-Colored TiO ₂ Nanotube Array Fabricated by Electrochemical Self-Doping. ACS Applied Materials & Interfaces, 2015, 7, 7486-7491.	8.0	98
45	A Review of Chlorine Evolution Mechanism on Dimensionally Stable Anode (DSA [®]). Korean Chemical Engineering Research, 2015, 53, 531-539.	0.2	19
46	TiO2 sol–gel spray method for carbon electrode fabrication to enhance desalination efficiency of capacitive deionization. Desalination, 2014, 342, 70-74.	8.2	106
47	Blue TiO2 Nanotube Array as an Oxidant Generating Novel Anode Material Fabricated by Simple Cathodic Polarization. Electrochimica Acta, 2014, 141, 113-119.	5.2	98
48	Hybrid capacitive deionization to enhance the desalination performance of capacitive techniques. Energy and Environmental Science, 2014, 7, 3683-3689.	30.8	517
49	Facile detection of photogenerated reactive oxygen species in TiO2 nanoparticles suspension using colorimetric probe-assisted spectrometric method. Chemosphere, 2013, 93, 2011-2015.	8.2	26
50	Highly selective lithium recovery from brine using a λ-MnO2–Ag battery. Physical Chemistry Chemical Physics, 2013, 15, 7690.	2.8	164
51	The effect of electrode material on the generation of oxidants and microbial inactivation in the electrochemical disinfection processes. Water Research, 2009, 43, 895-901.	11.3	345