SeungCheol Yang

List of Publications by Year
in descending order

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65 papers	2,644 citations	236925 25 h-index	189892 50 g-index
67 all docs	67 docs citations	67 times ranked	2115 citing authors

#	Article	IF	Citations
1	Effect of Ta⁵⁺ doping on the thermal physical properties of defective fluorite Y₃NbO₇ ceramics. Journal of the American Ceramic Society, 2022, 105, 1358-1366.	3.8	6
2	Characteristics of Mg1â^'Co O powder prepared using coprecipitation method for glass film formation on and magnetic performance improvement of electrical steel. Journal of Magnetism and Magnetic Materials, 2022, 550, 169085.	2.3	1
3	Effect of the polymerization degree of photopolymers on the thermal and mechanical properties of ceramic cores. Ceramics International, 2022, 48, 14754-14760.	4.8	6
4	High-Performance Asymmetric Flow-Electrode Capacitive Mixing with MnO₂-Coated Activated Carbon Flow-Electrode for Energy Harvesting from Salinity Gradient Power. , 2022, 4, 618-625.		7
5	Importance of channel dimension for flow-electrode flowing in flow-electrode capacitive mixing (F-CapMix): Evaluation of net power density under high-pressure-drop conditions. Separation and Purification Technology, 2022, 290, 120859.	7.9	7
6	Facile fabrication of carbon nanotube embedded pore filling ion exchange membrane with high ion exchange capacity and permselectivity for high-performance reverse electrodialysis. Journal of Membrane Science, 2022, 654, 120568.	8.2	8
7	Sustainable energy harvesting and on-site disinfection of natural seawater using reverse electrodialysis. Water Research, 2022, 220, 118681.	11.3	9
8	Multilayered Graphene-Coated Metal Current Collectors with High Electrical Conductivity and Corrosion Resistivity for Flow-Electrode Capacitive Mixing. ACS Sustainable Chemistry and Engineering, 2022, 10, 7625-7634.	6.7	7
9	Ultra-thin pore-filling membranes with mirror-image wave patterns for improved power density and reduced pressure drops in stacks of reverse electrodialysis. Journal of Membrane Science, 2021, 620, 118885.	8.2	17
10	Relationship between mechanical properties of ceramic green body and structures of photo-cured acrylate polymer for ceramic 3D printing based on photo polymerization. Ceramics International, 2021, 47, 3867-3875.	4.8	20
11	Optimization of the number of cell pairs to design efficient reverse electrodialysis stack. Desalination, 2021, 497, 114676.	8.2	24
12	Synthesis of magnesium-based binary powders with high reactivity using a coprecipitation method. Journal of Nanoparticle Research, 2021, 23, 1.	1.9	2
13	Enhanced energy recovery using a cascaded reverse electrodialysis stack for salinity gradient power generation. Water Research, 2021, 200, 117255.	11.3	6
14	Electrochemical Analysis of High-Performance Flow-Electrode Capacitive Mixing (F-CapMix) under Different Operating Conditions. ACS Sustainable Chemistry and Engineering, 2021, 9, 9199-9208.	6.7	14
15	Correlations between Properties of Pore-Filling Ion Exchange Membranes and Performance of a Reverse Electrodialysis Stack for High Power Density. Membranes, 2021, 11, 609.	3.0	12
16	Cross Effect of Surface Area and Electrical Conductivity for Carbonaceous Materials in Flow-electrode Capacitive Mixing (F-CapMix) and Flow-electrode Capacitive Deionization (FCDI): Solid-like Behavior of Flow-electrode. ACS Sustainable Chemistry and Engineering, 2021, 9, 13514-13525.	6.7	12
17	Hot corrosion behavior of Yb2O3â€“Gd2O3â€“Y2O3 co-stabilized zirconia-based thermal barrier coatings covered with a Lewis neutral layer. Surface and Coatings Technology, 2021, 428, 127911.	4.8	3
18	Energy-efficient seawater softening and power generation using a microbial electrolysis cell-reverse electrodialysis hybrid system. Chemical Engineering Journal, 2020, 391, 123480.	12.7	30

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19	Thickness-modulated and interface-engineered MoS2/TiO2 heterostructures as a highly active and inexpensive cathode for reverse electrodialysis. Applied Surface Science, 2020, 504, 144323.	6.1	6
20	Hot-corrosion resistance and phase stability of Yb2O3â€“Gd2O3â€“Y2O3 costabilized zirconia-based thermal barrier coatings against Na2SO4Â+ÂV2O5 molten salts. Surface and Coatings Technology, 2020, 400, 126197.	4.8	34
21	Single crystal casting of gas turbine blades using superior ceramic core. Journal of Materials Research and Technology, 2020, 9, 3348-3356.	5.8	22
22	Asymmetrical electrode system for stable operation of a large-scale reverse electrodialysis (RED) system. Environmental Science: Water Research and Technology, 2020, 6, 1597-1605.	2.4	4
23	Nernstâ€“Planck analysis of reverse-electrodialysis with the thin-composite pore-filling membranes and its upscaling potential. Water Research, 2019, 165, 114970.	11.3	11
24	Reverse electrodialysis (RED) using a bipolar membrane to suppress inorganic fouling around the cathode. Water Research, 2019, 166, 115078.	11.3	21
25	Green fabrication of pore-filling anion exchange membranes using R2R processing. Journal of Membrane Science, 2019, 584, 181-190.	8.2	24
26	Electrode system for large-scale reverse electrodialysis: water electrolysis, bubble resistance, and inorganic scaling. Journal of Applied Electrochemistry, 2019, 49, 517-528.	2.9	25
27	Uniform coating of molybdenum disulfide over porous carbon substrates and its electrochemical application. Chemical Engineering Journal, 2019, 356, 292-302.	12.7	10
28	Fabrication of photocured anion-exchange membranes using water-soluble siloxane resins as cross-linking agents and their application in reverse electrodialysis. Journal of Membrane Science, 2019, 573, 544-553.	8.2	23
29	Assessing the behavior of the feed-water constituents of a pilot-scale 1000-cell-pair reverse electrodialysis with seawater and municipal wastewater effluent. Water Research, 2019, 148, 261-271.	11.3	87
30	Flow-electrode capacitive deionization with highly enhanced salt removal performance utilizing high-aspect ratio functionalized carbon nanotubes. Water Research, 2019, 151, 252-259.	11.3	116
31	Domestic wastewater treatment in a tubular microbial electrolysis cell with a membrane electrode assembly. International Journal of Hydrogen Energy, 2019, 44, 652-660.	7.1	26
32	Membrane-spacer assembly for flow-electrode capacitive deionization. Applied Surface Science, 2018, 433, 437-442.	6.1	27
33	Fabrication of an Anion-Exchange Membrane by Pore-Filling Using Catecholâ€“1,4-Diazabicyclo-[2,2,2]octane Coating and Its Application to Reverse Electrodialysis. Langmuir, 2018, 34, 10837-10846.	3.5	31
34	A novel three-dimensional desalination system utilizing honeycomb-shaped lattice structures for flow-electrode capacitive deionization. Energy and Environmental Science, 2017, 10, 1746-1750.	30.8	114
35	Bioelectrochemical precipitation system for removal of scale-forming ions from seawater using two different buffers. Desalination, 2017, 418, 35-42.	8.2	11
36	Analysis of the desalting performance of flow-electrode capacitive deionization under short-circuited closed cycle operation. Desalination, 2017, 424, 110-121.	8.2	63

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37	Electrochemical characterization of electrolyte-filled porous carbon materials for electrosorption process. Journal of Electroanalytical Chemistry, 2017, 801, 179-184.	3.8	4
38	Plate-Shaped Graphite for Improved Performance of Flow-Electrode Capacitive Deionization. Journal of the Electrochemical Society, 2017, 164, E480-E488.	2.9	46
39	Flow-Electrode Capacitive Deionization Using an Aqueous Electrolyte with a High Salt Concentration. Environmental Science & Technology, 2016, 50, 5892-5899.	10.0	156
40	Surface-modified spherical activated carbon for high carbon loading and its desalting performance in flow-electrode capacitive deionization. RSC Advances, 2016, 6, 69720-69727.	3.6	91
41	Stack Design and Operation for Scaling Up the Capacity of Flow-Electrode Capacitive Deionization Technology. ACS Sustainable Chemistry and Engineering, 2016, 4, 4174-4180.	6.7	68
42	Selective removal of multivalent ions from seawater by bioelectrochemical system. Desalination, 2015, 359, 37-40.	8.2	18
43	Ion storage and energy recovery of a flow-electrode capacitive deionization process. Journal of Materials Chemistry A, 2014, 2, 6378.	10.3	143
44	High-performance hybrid plastic films: a robust electrode platform for thin-film optoelectronics. Energy and Environmental Science, 2013, 6, 1811.	30.8	85
45	Desalination via a new membrane capacitive deionization process utilizing flow-electrodes. Energy and Environmental Science, 2013, 6, 1471.	30.8	518
46	Solâ€“gel derived dye-bridged hybrid materials for white luminescence. Journal of Sol-Gel Science and Technology, 2013, 65, 46-51.	2.4	5
47	Thermally resistant UV-curable epoxyâ€“siloxane hybrid materials for light emitting diode (LED) encapsulation. Journal of Materials Chemistry, 2012, 22, 8874.	6.7	71
48	Photocurable transparent cycloaliphatic epoxy hybrid materials crosslinked by oxetane. Journal of Applied Polymer Science, 2012, 126, E380.	2.6	20
49	Fabrication of a high thermal-stable methacrylate-silicate hybrid nanocomposite: hydrolytic versus non-hydrolytic solâ€“gel synthesis of methacryl-oligosiloxanes. Journal of Sol-Gel Science and Technology, 2012, 61, 321-327.	2.4	13
50	Photo-curable siloxane hybrid material fabricated by a thiolâ€“ene reaction of solâ€“gel synthesized oligosiloxanes. Chemical Communications, 2011, 47, 6051.	4.1	31
51	Network structureâ€“property relationship in UV-cured organic/inorganic hybrid nanocomposites. Polymer Chemistry, 2011, 2, 168-174.	3.9	21
52	Flexible amorphous silicon solar cells on surface-textured glass-fabric reinforced composite films. , 2011, , .		0
53	Fabrication of transparent methacrylate zirconium siloxane hybrid materials using solâ€“gel synthesized oligosiloxane resin. Journal of Sol-Gel Science and Technology, 2011, 58, 114-120.	2.4	30
54	Thermally Stable, Dyeâ€Bridged Nanohybridâ€Based White Lightâ€Emitting Diodes. Advanced Materials, 2011, 23, 5767-5772.	21.0	53

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55	Cycloaliphatic epoxy oligosiloxaneâ€derived hybrid materials for a highâ€refractive index LED encapsulant. Journal of Applied Polymer Science, 2011, 122, 2478-2485.	2.6	39
56	Effects of Sol-Gel Organic-Inorganic Hybrid Passivation on Stability of Solution-Processed Zinc Tin Oxide Thin Film Transistors. Electrochemical and Solid-State Letters, 2011, 14, H375.	2.2	21
57	Thermal stability of solâ€“gel derived methacrylate oligosiloxane-based hybrids for LED encapsulants. Journal of Sol-Gel Science and Technology, 2010, 53, 434-440.	2.4	33
58	Rollable Transparent Glassâ€Fabric Reinforced Composite Substrate for Flexible Devices. Advanced Materials, 2010, 22, 4510-4515.	21.0	77
59	Thermal resistance of cycloaliphatic epoxy hybrimer based on solâ€gel derived oligosiloxane for LED encapsulation. Journal of Applied Polymer Science, 2010, 117, 2140-2145.	2.6	30
60	Thermally Stable Transparent Solâ^'Gel Based Siloxane Hybrid Material with High Refractive Index for Light Emitting Diode (LED) Encapsulation. Chemistry of Materials, 2010, 22, 3549-3555.	6.7	175
61	Synthesis and characterization of nanoâ€sized epoxy oligosiloxanes for fabrication of transparent nano hybrid materials. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 756-763.	2.1	12
62	Highly Condensed Epoxyâ^'Oligosiloxane-Based Hybrid Material for Transparent Low-k Dielectric Coatings. ACS Applied Materials & Interfaces, 2009, 1, 1585-1590.	8.0	26
63	P-69: PDP Fabricated with Low-Temperature Processes Below 300Â°C Using Sol-Gel Hybrid Polymers (Hybrimer PDP). Digest of Technical Papers SID International Symposium, 2008, 39, 1446.	0.3	0
64	R2R Fabrication of Pore-Filling Cation-Exchange Membranes via One-Time Impregnation and Their Application in Reverse Electrodialysis. ACS Sustainable Chemistry and Engineering, 0, , .	6.7	9
65	Enhancing fracture strength of ceramic core using sodium silicate as the binder. International Journal of Applied Ceramic Technology, 0, , .	2.1	2