

Daisuke Saeki

List of Publications by Year in descending order

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47
papers

1,165
citations

393982

19
h-index

395343

33
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47
all docs

47
docs citations

47
times ranked

1650
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of antibacterial polyamide reverse osmosis membrane modified with a covalently immobilized enzyme. <i>Journal of Membrane Science</i> , 2013, 428, 403-409.	4.1	109
2	Zwitterionic polymer modification of polyamide reverse-osmosis membranes via surface amination and atom transfer radical polymerization for anti-biofouling. <i>Journal of Membrane Science</i> , 2018, 550, 332-339.	4.1	87
3	Preparation of a forward osmosis membrane using a highly porous polyketone microfiltration membrane as a novel support. <i>Journal of Membrane Science</i> , 2015, 487, 51-59.	4.1	85
4	Anti-biofouling of polyamide reverse osmosis membranes using phosphorylcholine polymer grafted by surface-initiated atom transfer radical polymerization. <i>Desalination</i> , 2014, 350, 21-27.	4.0	75
5	Stabilization of layer-by-layer assembled nanofiltration membranes by crosslinking via amide bond formation and siloxane bond formation. <i>Journal of Membrane Science</i> , 2013, 447, 128-133.	4.1	52
6	Microfluidic preparation of water-in-oil-in-water emulsions with an ultra-thin oil phase layer. <i>Lab on A Chip</i> , 2010, 10, 357-362.	3.1	49
7	Effect of membrane polymeric materials on relationship between surface pore size and membrane fouling in membrane bioreactors. <i>Applied Surface Science</i> , 2015, 330, 351-357.	3.1	49
8	Preparation of positively charged PVDF membranes with improved antibacterial activity by blending modification: Effect of change in membrane surface material properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 533, 133-139.	2.3	46
9	Antifouling thin-film composite membranes with multi-defense properties by controllably constructing amphiphilic diblock copolymer brush layer. <i>Journal of Membrane Science</i> , 2020, 614, 118515.	4.1	42
10	Effect of operating conditions on biofouling in reverse osmosis membrane processes: Bacterial adhesion, biofilm formation, and permeate flux decrease. <i>Desalination</i> , 2016, 378, 74-79.	4.0	38
11	Dual Superlyophobic Aliphatic Polyketone Membranes for Highly Efficient Emulsified Oil-Water Separation: Performance and Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30860-30870.	4.0	38
12	Prevention of bacterial adhesion on polyamide reverse osmosis membranes via electrostatic interactions using a cationic phosphorylcholine polymer coating. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 443, 171-176.	2.3	36
13	Effect of hydrophobicity of polymer materials used for water purification membranes on biofilm formation dynamics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 506, 622-628.	2.3	35
14	Improved anti-biofouling performance of polyamide reverse osmosis membranes modified with a polyampholyte with effective carboxyl anion and quaternary ammonium cation ratio. <i>Journal of Membrane Science</i> , 2020, 595, 117529.	4.1	32
15	Effect of polymer structure modified on RO membrane surfaces via surface-initiated ATRP on dynamic biofouling behavior. <i>Journal of Membrane Science</i> , 2019, 582, 111-119.	4.1	28
16	Highly improved organic solvent reverse osmosis (OSRO) membrane for organic liquid mixture separation by simple heat treatment. <i>Journal of Membrane Science</i> , 2021, 618, 118710.	4.1	27
17	Permeation of Dispersed Particles through a Pore and Transmembrane Pressure Behavior in Dead-End Constant-Flux Microfiltration by Two-Dimensional Direct Numerical Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4650-4659.	1.8	25
18	Surface-Engineered Biocatalytic Composite Membranes for Reduced Protein Fouling and Self-Cleaning. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27477-27487.	4.0	24

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19	Reverse osmosis membranes based on a supported lipid bilayer with gramicidin A water channels. <i>Desalination</i> , 2015, 375, 48-53.	4.0	22
20	Boosted Hydrogen Evolution Kinetics Over Particulate Lanthanum and Rhodium Doped Strontium Titanate Photocatalysts Modified with Phosphonate Groups. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3654-3660.	7.2	22
21	A novel strategy to immobilize enzymes on microporous membranes via dicarboxylic acid halides. <i>RSC Advances</i> , 2017, 7, 48199-48207.	1.7	21
22	Effect of hydrophilic polymer modification of reverse osmosis membrane surfaces on organic adsorption and biofouling behavior. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 609, 125680.	2.3	19
23	Highly Productive Droplet Formation by Anisotropic Elongation of a Thread Flow in a Microchannel. <i>Langmuir</i> , 2008, 24, 13809-13813.	1.6	18
24	Formation of monodisperse calcium alginate microbeads by rupture of water-in-oil-in-water droplets with an ultra-thin oil phase layer. <i>Lab on A Chip</i> , 2010, 10, 2292.	3.1	17
25	Water transport and ion rejection investigation for application of cyclic peptide nanotubes to forward osmosis process: A simulation study. <i>Desalination</i> , 2017, 424, 85-94.	4.0	16
26	Effects of operating conditions on biofouling in crossflow ultrafiltration membrane processes. <i>Separation and Purification Technology</i> , 2017, 189, 138-144.	3.9	16
27	Ultrathin and ordered stacking of silica nanoparticles via spin-assisted layer-by-layer assembly under dehydrated conditions for the fabrication of ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2017, 523, 60-67.	4.1	16
28	Development of ultrafiltration membrane by stacking of silver nanoparticles stabilized with oppositely charged polyelectrolytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 451, 33-37.	2.3	14
29	Niobate nanosheet membranes with enhanced stability for nanofiltration. <i>Chemical Communications</i> , 2017, 53, 7929-7932.	2.2	14
30	Preparation of cyclic peptide nanotube structures and molecular simulation of water adsorption and diffusion. <i>Journal of Membrane Science</i> , 2017, 537, 101-110.	4.1	11
31	Polyketone-based membrane support improves the organic solvent resistance of laccase catalysis. <i>Journal of Colloid and Interface Science</i> , 2019, 544, 230-240.	5.0	11
32	Enzyme-aided forward osmosis (E-FO) process to enhance removal of micropollutants from water resources. <i>Journal of Membrane Science</i> , 2020, 593, 117399.	4.1	11
33	Preparation of Amphotericin B-Ergosterol structures and molecular simulation of water adsorption and diffusion. <i>Journal of Membrane Science</i> , 2018, 545, 229-239.	4.1	10
34	Dynamic interaction between oppositely charged vesicles: Aggregation, lipid mixing, and disaggregation. <i>Journal of Colloid and Interface Science</i> , 2008, 320, 611-614.	5.0	9
35	Microcompartmentalized cell-free protein synthesis in semipermeable microcapsules composed of polyethylenimine-coated alginate. <i>Journal of Bioscience and Bioengineering</i> , 2014, 118, 199-204.	1.1	8
36	Preparation of carboxylated silver nanoparticles via a reverse micelle method and covalent stacking onto porous substrates via amide bond formation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 552, 98-102.	2.3	6

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37	Molecular simulation of a modified amphotericin B-Ergosterol artificial water channel to evaluate structure and water molecule transport performance. <i>Journal of Membrane Science</i> , 2019, 583, 49-58.	4.1	6
38	Concentration and characterization of organic colloids in deep granitic groundwater using nanofiltration membranes for evaluating radionuclide transport. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 485, 55-62.	2.3	5
39	Formation of supported lipid bilayers on porous polymeric substrates induced by hydrophobic interaction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 297-303.	2.3	5
40	Phase separation behavior of binary mixture of photopolymerizable diacetylene and unsaturated phospholipids in liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183377.	1.4	4
41	Effect of polyelectrolyte structure on formation of supported lipid bilayers on polyelectrolyte multilayers prepared using the layer-by-layer method. <i>Journal of Colloid and Interface Science</i> , 2020, 569, 211-218.	5.0	3
42	“Rapid communications” Applying Amphotericin B-Ergosterol in Forward Osmosis : a simulation study. <i>Membrane</i> , 2017, 42, 250-254.	0.0	2
43	Preparation of calcium alginate microbeads from water-in-oil-in-water emulsions using microfluidic device. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, S162.	1.1	1
44	Efficient condensation of organic colloids in deep groundwater using surface-modified nanofiltration membranes under optimized hydrodynamic conditions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 495, 68-78.	2.3	1
45	Boosted Hydrogen-Evolution Kinetics Over Particulate Lanthanum and Rhodium-Doped Strontium Titanate Photocatalysts Modified with Phosphonate Groups. <i>Angewandte Chemie</i> , 2021, 133, 3698-3704.	1.6	0
46	Immobilization of Lipid Bilayers onto Polymeric Solid Surface and Its Application. <i>Membrane</i> , 2021, 46, 187-191.	0.0	0
47	Development of Biomimetic Reverse Osmosis Membranes using Biomolecules as Permeation Pores. <i>Membrane</i> , 2019, 44, 22-26.	0.0	0