

Ryousuke Takagi

List of Publications by Year in descending order

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65
papers

1,826
citations

236612

25
h-index

276539

41
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65
all docs

65
docs citations

65
times ranked

1517
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous improvement of the monovalent anion selectivity and antifouling properties of an anion exchange membrane in an electrodialysis process, using polyelectrolyte multilayer deposition. <i>Journal of Membrane Science</i> , 2013, 431, 113-120.	4.1	182
2	Biofouling resistance of reverse osmosis membrane modified with polydopamine. <i>Desalination</i> , 2014, 336, 87-96.	4.0	137
3	Improvement of the antifouling potential of an anion exchange membrane by surface modification with a polyelectrolyte for an electrodialysis process. <i>Journal of Membrane Science</i> , 2012, 417-418, 137-143.	4.1	121
4	Improved antifouling of anion-exchange membrane by polydopamine coating in electrodialysis process. <i>Desalination</i> , 2014, 332, 126-133.	4.0	117
5	Surface modification of an anion exchange membrane to improve the selectivity for monovalent anions in electrodialysis – experimental verification of theoretical predictions. <i>Journal of Membrane Science</i> , 2015, 490, 301-310.	4.1	95
6	Enhanced antibiofouling of RO membranes via polydopamine coating and polyzwitterion immobilization. <i>Desalination</i> , 2014, 337, 23-30.	4.0	60
7	Biofouling phenomena on anion exchange membranes under the reverse electrodialysis process. <i>Journal of Membrane Science</i> , 2017, 530, 232-239.	4.1	53
8	Organic Liquid Mixture Separation Using an Aliphatic Polyketone-Supported Polyamide Organic Solvent Reverse Osmosis (OSRO) Membrane. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7586-7594.	4.0	52
9	Theoretical study of the permselectivity of an anion exchange membrane in electrodialysis. <i>Journal of Membrane Science</i> , 2014, 470, 486-493.	4.1	49
10	The removal of fluoride from water based on applied current and membrane types in electrodialysis. <i>Journal of Fluorine Chemistry</i> , 2016, 191, 97-102.	0.9	45
11	Effect of polydopamine coating and direct electric current application on anti-biofouling properties of anion exchange membranes in electrodialysis. <i>Journal of Membrane Science</i> , 2016, 515, 98-108.	4.1	40
12	Improvement of antibiofouling performance of a reverse osmosis membrane through biocide release and adhesion resistance. <i>Separation and Purification Technology</i> , 2013, 105, 106-113.	3.9	38
13	Enhancing the antibiofouling performance of RO membranes using Cu(OH) ₂ as an antibacterial agent. <i>Desalination</i> , 2013, 325, 40-47.	4.0	37
14	In situ formation of ultrathin polyampholyte layer on porous polyketone membrane via a one-step dopamine co-deposition strategy for oil/water separation with ultralow fouling. <i>Journal of Membrane Science</i> , 2021, 619, 118789.	4.1	37
15	Engineering a dual-functional sulfonated polyelectrolyte-silver nanoparticle complex on a polyamide reverse osmosis membrane for robust biofouling mitigation. <i>Journal of Membrane Science</i> , 2021, 618, 118757.	4.1	36
16	Theoretical study of the effect of ion adsorption on membrane potential and its application to collodion membranes. <i>Journal of Membrane Science</i> , 1990, 53, 19-35.	4.1	34
17	Controlling the formation of porous polyketone membranes via a cross-linkable alginate additive for oil-in-water emulsion separations. <i>Journal of Membrane Science</i> , 2020, 611, 118362.	4.1	34
18	Polydopamine-coated poly(vinylidene fluoride) membranes with high ultraviolet resistance and antifouling properties for a photocatalytic membrane reactor. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47312.	1.3	33

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19	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
20	Development of Polyvinylidene Fluoride Membrane by Incorporating Bio-Based Ginger Extract as Additive. <i>Polymers</i> , 2020, 12, 2003.	2.0	31
21	Donnan potential and ζ -potential of cellulose acetate membrane in aqueous sodium chloride solutions. <i>Journal of Membrane Science</i> , 2000, 170, 19-25.	4.1	30
22	Membrane potential of separation membranes as affected by ion adsorption. <i>Journal of Membrane Science</i> , 1992, 71, 189-200.	4.1	28
23	Improving Water Permeability of Hydrophilic PVDF Membrane Prepared via Blending with Organic and Inorganic Additives for Humic Acid Separation. <i>Molecules</i> , 2019, 24, 4099.	1.7	28
24	Removal profile of sulfate ion from mix ion solution with different type and configuration of anion exchange membrane in electrodialysis. <i>Journal of Water Process Engineering</i> , 2017, 20, 173-179.	2.6	27
25	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
26	Modification of polyethersulfone hollow fiber membrane with different polymeric additives. <i>Membrane Water Treatment</i> , 2016, 7, 355-365.	0.5	25
27	Characterization of the membrane charge of Al ₂ O ₃ membranes. <i>Separation and Purification Technology</i> , 2001, 25, 369-377.	3.9	24
28	Facilitated and reverse transport of electrolytes through an asymmetric membrane. <i>Journal of Membrane Science</i> , 1986, 27, 285-299.	4.1	22
29	Ionic dialysis through amphoteric membranes. <i>Separation and Purification Technology</i> , 2003, 32, 65-71.	3.9	22
30	Two-Step Dopamine-to-Polydopamine Modification of Polyethersulfone Ultrafiltration Membrane for Enhancing Anti-Fouling and Ultraviolet Resistant Properties. <i>Polymers</i> , 2020, 12, 2051.	2.0	22
31	Effect of the langmuir-type ion adsorption on the membrane potential of a non-charged membrane. <i>Journal of Membrane Science</i> , 1985, 23, 29-40.	4.1	20
32	Effect of Molecular Weight of Sulfonated Poly(ether sulfone) (SPES) on the Mechanical Strength and Antifouling Properties of Poly(ether sulfone)/SPES Blend Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 11302-11311.	1.8	20
33	Membrane charge of microporous glass membrane determined by the membrane potential method and its pore size dependency. <i>Journal of Membrane Science</i> , 1996, 111, 19-26.	4.1	19
34	Investigation of Cleaning Strategies for an Antifouling Thin-Film Composite Forward Osmosis Membrane for Treatment of Polymer-Flooding Produced Water. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 994-1003.	1.8	19
35	Effect of hollow fiber membrane properties and operating conditions on preventing scale precipitation in seawater desalination with vacuum membrane distillation. <i>Desalination</i> , 2022, 527, 115578.	4.0	18
36	Experimental verification of the theory of membrane potential for collodion membranes with asymmetric charge distribution.. <i>Chemical and Pharmaceutical Bulletin</i> , 1986, 34, 957-965.	0.6	17

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37	Development of anti-microbial poly(vinylidene fluoride) (PVDF) membrane using bio-based ginger extract-silica nanoparticles (GE-SiNPs) for bovine serum albumin (BSA) filtration. Journal of the Taiwan Institute of Chemical Engineers, 2021, 125, 323-331.	2.7	17
38	Surface charge control of poly(methyl methacrylate-co-dimethyl aminoethyl methacrylate)-based membrane for improved fouling resistance. Separation and Purification Technology, 2021, 279, 119778.	3.9	17
39	Production of High Flux Poly(Ether Sulfone) Membrane Using Silica Additive Extracted from Natural Resource. Membranes, 2020, 10, 17.	1.4	16
40	Variation of membrane charge of nylon 6 with pH. Journal of Membrane Science, 1994, 92, 229-238.	4.1	14
41	Time dependence of transport number ratio during electro dialysis process. Desalination and Water Treatment, 2011, 34, 25-31.	1.0	13
42	Cs ⁺ Rejection Behavior of Polyamide RO Membranes for Feed Solutions with Extremely Low Salt Concentrations. Industrial & Engineering Chemistry Research, 2015, 54, 8782-8788.	1.8	13
43	Synergistic effects of organic and inorganic additives in preparation of composite poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overload	1.3	13
44	One-Pot Polymerization of Dopamine as an Additive to Enhance Permeability and Antifouling Properties of Polyethersulfone Membrane. Polymers, 2020, 12, 1807.	2.0	12
45	Theoretical study on asymmetric membrane potential.. Chemical and Pharmaceutical Bulletin, 1984, 32, 3812-3823.	0.6	10
46	Effects of Coexistent Ions on ¹³⁷ Cs ⁺ Rejection of a Polyamide Reverse Osmosis Membrane in the Decontamination of Wastewater with Low Cesium-137 Concentration. Industrial & Engineering Chemistry Research, 2017, 56, 6864-6868.	1.8	10
47	Development of membranes with well-dispersed polyampholytic copolymer via a composite coagulation process. Journal of Membrane Science, 2021, 620, 118848.	4.1	10
48	Effect of the Characteristic Properties of Membrane on Long-Term Stability in the Vacuum Membrane Distillation Process. Membranes, 2021, 11, 252.	1.4	8
49	Ultrafiltration of Î±-Lactalbumin Protein: Acquaintance of the Filtration Performance by Membrane Structure and Surface Alteration. Polymers, 2021, 13, 3632.	2.0	7
50	Characterization of inorganic membranes as amphoteric membranes. Desalination, 2002, 148, 347-352.	4.0	6
51	Effect of support on membrane performance in dialysis. Desalination, 2006, 192, 346-355.	4.0	5
52	The Effect of Phase Transition on Optical Spectrum in NH ₄ Br-Cu ²⁺ , Phase III-IV. Journal of the Physical Society of Japan, 1973, 35, 626-626.	0.7	4
53	è†œé»»ä½â¼ãªã, Hendersonãƒãƒã«ã*Goldmanãƒãƒã«ã@æ”è¼f. Membrane, 1979, 4, 183-192.	0.0	4
54	Equation of rejection curve for membranes with high charge density. Desalination, 2008, 233, 267-276.	4.0	4

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55	Effect of Biological Contact Filters (BCFs) on Membrane Fouling in Drinking Water Treatment Systems. <i>Water (Switzerland)</i> , 2017, 9, 981.	1.2	4
56	Recovery of Valuable Solutes from Organic Solvent/Water Mixtures via Direct Contact Membrane Distillation (DCMD) as a Non-Heated Process. <i>Membranes</i> , 2021, 11, 559.	1.4	3
57	Effect of support on rejection. <i>Desalination</i> , 2009, 236, 259-265.	4.0	1
58	“Original Contribution” Effect of the Membrane Surface on Performance Improvements to Anion Exchange Membranes for Electrodialysis through Layer-by-layer Deposition. <i>Membrane</i> , 2013, 38, 137-144.	0.0	1
59	Removal performance of NO ₃ ⁻ ion from groundwater by electrodialysis. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
60	Fouling prediction method using TOC and EEM analysis. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 610-617.	1.0	1
61	Improving chemical cleaning of fouled membranes in a drinking water treatment plant. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 2330-2337.	1.0	1
62	Change of foulant concentration in an anaerobic membrane bioreactor. <i>Water Science and Technology</i> , 2020, 81, 2381-2390.	1.2	0
63	Reflecting on My Research Life. <i>Membrane</i> , 2021, 46, 359-368.	0.0	0
64	Reflecting on My Research Life“2. <i>Membrane</i> , 2022, 47, 36-45.	0.0	0
65	Reflecting on My Research Life“3. <i>Membrane</i> , 2022, 47, 105-114.	0.0	0