

# Ryousuke Takagi

## List of Publications by Year in descending order

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65  
papers

1,826  
citations

236612

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276539

41  
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65  
docs citations

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times ranked

1517  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Reflecting on My Research Life <sup>2</sup> . <i>Membrane</i> , 2022, 47, 36-45.	0.0	0
3	Reflecting on My Research Life <sup>3</sup> . <i>Membrane</i> , 2022, 47, 105-114.	0.0	0
4	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
5	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
6	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
7	Development of membranes with well-dispersed polyampholytic copolymer via a composite coagulation process. <i>Journal of Membrane Science</i> , 2021, 620, 118848.	4.1	10
8	Effect of the Characteristic Properties of Membrane on Long-Term Stability in the Vacuum Membrane Distillation Process. <i>Membranes</i> , 2021, 11, 252.	1.4	8
9	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
10	Development of anti-microbial polyvinylidene fluoride (PVDF) membrane using bio-based ginger extract-silica nanoparticles (GE-SiNPs) for bovine serum albumin (BSA) filtration. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 125, 323-331.	2.7	17
11	Surface charge control of poly(methyl methacrylate-co-dimethyl aminoethyl methacrylate)-based membrane for improved fouling resistance. <i>Separation and Purification Technology</i> , 2021, 279, 119778.	3.9	17
12	Ultrafiltration of $\beta$ -Lactalbumin Protein: Acquaintance of the Filtration Performance by Membrane Structure and Surface Alteration. <i>Polymers</i> , 2021, 13, 3632.	2.0	7
13	Reflecting on My Research Life. <i>Membrane</i> , 2021, 46, 359-368.	0.0	0
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	Development of Polyvinylidene Fluoride Membrane by Incorporating Bio-Based Ginger Extract as Additive. <i>Polymers</i> , 2020, 12, 2003.	2.0	31
16	One-Pot Polymerization of Dopamine as an Additive to Enhance Permeability and Antifouling Properties of Polyethersulfone Membrane. <i>Polymers</i> , 2020, 12, 1807.	2.0	12
17	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
18	Change of foulant concentration in an anaerobic membrane bioreactor. <i>Water Science and Technology</i> , 2020, 81, 2381-2390.	1.2	0

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19	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
20	Organic Liquid Mixture Separation Using an Aliphatic Polyketone-Supported Polyamide Organic Solvent Reverse Osmosis (OSRO) Membrane. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 7586-7594.	4.0	52
21	Production of High Flux Poly(Ether Sulfone) Membrane Using Silica Additive Extracted from Natural Resource. <i>Membranes</i> , 2020, 10, 17.	1.4	16
22	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
23	Fouling prediction method using TOC and EEM analysis. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 610-617.	1.0	1
24	Investigation of Cleaning Strategies for an Antifouling Thin-Film Composite Forward Osmosis Membrane for Treatment of Polymer-Flooding Produced Water. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 994-1003.	1.8	19
25	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
26	Synergistic effects of organic and inorganic additives in preparation of composite poly(vinylidene Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.3	13
27	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
28	Removal performance of NO <sub>3</sub> <sup>-</sup> ion from groundwater by electrodialysis. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
29	Biofouling phenomena on anion exchange membranes under the reverse electrodialysis process. <i>Journal of Membrane Science</i> , 2017, 530, 232-239.	4.1	53
30	Effects of Coexistent Ions on <sup>137</sup> Cs <sup>+</sup> Rejection of a Polyamide Reverse Osmosis Membrane in the Decontamination of Wastewater with Low Cesium-137 Concentration. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 6864-6868.	1.8	10
31	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 &amp; Engineering Chemistry Research</i> , 2017, 56, 11302-11311.	1.8	20
32	Removal profile of sulfate ion from mix ion solution with different type and configuration of anion exchange membrane in elctrodialysis. <i>Journal of Water Process Engineering</i> , 2017, 20, 173-179.	2.6	27
33	Effect of Biological Contact Filters (BCFs) on Membrane Fouling in Drinking Water Treatment Systems. <i>Water (Switzerland)</i> , 2017, 9, 981.	1.2	4
34	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
35	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
36	Modification of polyethersulfone hollow fiber membrane with different polymeric additives. <i>Membrane Water Treatment</i> , 2016, 7, 355-365.	0.5	25

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37	Cs <sup>+</sup> Rejection Behavior of Polyamide RO Membranes for Feed Solutions with Extremely Low Salt Concentrations. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 8782-8788.	1.8	13
38	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
39	Improved antifouling of anion-exchange membrane by polydopamine coating in electrodialysis process. <i>Desalination</i> , 2014, 332, 126-133.	4.0	117
40	Biofouling resistance of reverse osmosis membrane modified with polydopamine. <i>Desalination</i> , 2014, 336, 87-96.	4.0	137
41	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
42	Enhanced antibiofouling of RO membranes via polydopamine coating and polyzwitterion immobilization. <i>Desalination</i> , 2014, 337, 23-30.	4.0	60
43	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
44	Enhancing the antibiofouling performance of RO membranes using Cu(OH) <sub>2</sub> as an antibacterial agent. <i>Desalination</i> , 2013, 325, 40-47.	4.0	37
45	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
46	“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
47	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
48	Time dependence of transport number ratio during electrodialysis process. <i>Desalination and Water Treatment</i> , 2011, 34, 25-31.	1.0	13
49	Effect of support on rejection. <i>Desalination</i> , 2009, 236, 259-265.	4.0	1
50	Equation of rejection curve for membranes with high charge density. <i>Desalination</i> , 2008, 233, 267-276.	4.0	4
51	Effect of support on membrane performance in dialysis. <i>Desalination</i> , 2006, 192, 346-355.	4.0	5
52	Ionic dialysis through amphoteric membranes. <i>Separation and Purification Technology</i> , 2003, 32, 65-71.	3.9	22
53	Characterization of inorganic membranes as amphoteric membranes. <i>Desalination</i> , 2002, 148, 347-352.	4.0	6
54	Characterization of the membrane charge of Al <sub>2</sub> O <sub>3</sub> membranes. <i>Separation and Purification Technology</i> , 2001, 25, 369-377.	3.9	24

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55	Donnan potential and $\zeta$ -potential of cellulose acetate membrane in aqueous sodium chloride solutions. <i>Journal of Membrane Science</i> , 2000, 170, 19-25.	4.1	30
56	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
57	Variation of membrane charge of nylon 6 with pH. <i>Journal of Membrane Science</i> , 1994, 92, 229-238.	4.1	14
58	Membrane potential of separation membranes as affected by ion adsorption. <i>Journal of Membrane Science</i> , 1992, 71, 189-200.	4.1	28
59	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
60	Facilitated and reverse transport of electrolytes through an asymmetric membrane. <i>Journal of Membrane Science</i> , 1986, 27, 285-299.	4.1	22
61	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
62	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
63	Theoretical study on asymmetric membrane potential.. <i>Chemical and Pharmaceutical Bulletin</i> , 1984, 32, 3812-3823.	0.6	10
64	$\zeta$ -potential of cellulose acetate membrane, Henderson-Goldman equation. <i>Membrane</i> , 1979, 4, 183-192.	0.0	4
65	The Effect of Phase Transition on Optical Spectrum in $\text{NH}_4\text{Br}-\text{Cu}^{2+}$ , Phase III-IV. <i>Journal of the Physical Society of Japan</i> , 1973, 35, 626-626.	0.7	4