

Eiji Kamio

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94
papers

1,882
citations

27
h-index

39
g-index

98
ext. papers

2,138
ext. citations

5.8
avg, IF

5.1
L-index

#	Paper	IF	Citations
94	Amino acid ionic liquid-based facilitated transport membranes for CO ₂ separation. <i>Chemical Communications</i> , 2012 , 48, 6903-5	5.8	117
93	Inorganic/Organic Double-Network Gels Containing Ionic Liquids. <i>Advanced Materials</i> , 2017 , 29, 1704118	24	105
92	Fouling reduction of reverse osmosis membrane by surface modification via layer-by-layer assembly. <i>Separation and Purification Technology</i> , 2012 , 99, 1-7	8.3	103
91	Effect of water in ionic liquids on CO ₂ permeability in amino acid ionic liquid-based facilitated transport membranes. <i>Journal of Membrane Science</i> , 2012 , 415-416, 168-175	9.6	77
90	An amino acid ionic liquid-based tough ion gel membrane for CO ₂ capture. <i>Chemical Communications</i> , 2015 , 51, 13658-61	5.8	70
89	Polymeric ion-gels containing an amino acid ionic liquid for facilitated CO ₂ transport media. <i>Chemical Communications</i> , 2014 , 50, 2996-9	5.8	64
88	Improvements in the CO ₂ permeation selectivities of amino acid ionic liquid-based facilitated transport membranes by controlling their gas absorption properties. <i>Journal of Membrane Science</i> , 2014 , 454, 155-162	9.6	58
87	New approach for the fabrication of double-network ion-gel membranes with high CO ₂ /N ₂ separation performance based on facilitated transport. <i>Journal of Membrane Science</i> , 2017 , 530, 166-175	9.6	52
86	High CO ₂ separation performance of amino acid ionic liquid-based double network ion gel membranes in low CO ₂ concentration gas mixtures under humid conditions. <i>Journal of Membrane Science</i> , 2017 , 525, 290-297	9.6	50
85	Fundamental Investigation of the Factors Controlling the CO ₂ Permeability of Facilitated Transport Membranes Containing Amine-Functionalized Task-Specific Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 2422-2431	3.9	50
84	A facilitated transport ion-gel membrane for propylene/propane separation using silver ion as a carrier. <i>Journal of Membrane Science</i> , 2013 , 431, 121-130	9.6	43
83	Separation of rare earth metals with a polymeric microcapsule membrane. <i>Desalination</i> , 2002 , 144, 249-254	25.3	38
82	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	6.7	37
81	Extraction Mechanism of Rare Metals with Microcapsules Containing Organophosphorus Compounds.. <i>Journal of Chemical Engineering of Japan</i> , 2002 , 35, 178-185	0.8	37
80	Removal of metal ions from aqueous solutions by sorption onto microcapsules prepared by copolymerization of ethylene glycol dimethacrylate with styrene. <i>Separation and Purification Technology</i> , 2008 , 63, 517-523	8.3	36
79	Investigation on extraction rate of lanthanides with extractant-impregnated microcapsule. <i>Chemical Engineering Journal</i> , 2008 , 139, 93-105	14.7	36
78	Experimental and theoretical study on propylene absorption by using PVDF hollow fiber membrane contactors with various membrane structures. <i>Journal of Membrane Science</i> , 2010 , 346, 86-97	9.6	34

77	Microcapsules with macroholes prepared by the competitive adsorption of surfactants on emulsion droplet surfaces. <i>Langmuir</i> , 2008 , 24, 13287-98	4	34
76	Sorption Behavior of Ga(III) and In(III) into a Microcapsule Containing Long-Chain Alkylphosphonic Acid Monoester. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 2266-2272	3.9	33
75	Effect of the amino-group densities of functionalized ionic liquids on the facilitated transport properties for CO ₂ separation. <i>Journal of Membrane Science</i> , 2016 , 503, 148-157	9.6	32
74	Effect of heating rate on liquefaction of cellulose by hot compressed water. <i>Chemical Engineering Journal</i> , 2008 , 137, 328-338	14.7	32
73	Membrane formation mechanism of cross-linked polyurea microcapsules by phase separation method. <i>Journal of Microencapsulation</i> , 2004 , 21, 241-9	3.4	30
72	Separation of Rare Metal Ions by a Column Packed with Microcapsules Containing an Extractant. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 3669-3675	3.9	30
71	Microfluidic Extraction of Docosahexaenoic Acid Ethyl Ester: Comparison between Slug Flow and Emulsion. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 6915-6924	3.9	29
70	Cross-linked DNA capsules templated on porous calcium carbonate microparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 356, 126-133	5.1	28
69	Quantum Mechanical and Molecular Dynamics Simulations of Dual-Amino-Acid Ionic Liquids for CO ₂ Capture. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27734-27745	3.8	28
68	Liquefaction of Cellulose in Hot Compressed Water under Variable Temperatures. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 4944-4953	3.9	27
67	Ion Gel Membrane with Tunable Inorganic/Organic Composite Network for CO ₂ Separation. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 12763-12772	3.9	22
66	Liquefaction kinetics of cellulose treated by hot compressed water under variable temperature conditions. <i>Journal of Materials Science</i> , 2008 , 43, 2179-2188	4.3	22
65	Molecular Design of High CO ₂ Reactivity and Low Viscosity Ionic Liquids for CO ₂ Separative Facilitated Transport Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 2821-2830	3.9	21
64	Solidification characteristics of polymer solution during polyvinylidene fluoride membrane preparation by nonsolvent-induced phase separation. <i>Journal of Membrane Science</i> , 2013 , 438, 77-82	9.6	21
63	Theoretical Development of Metal Extraction Mechanism into an Extractant-Impregnated Microcapsule. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 255-265	3.9	20
62	Investigation of alternative compounds to poly(E-MA) as a polymeric surfactant for preparation of microcapsules by phase separation method. <i>Journal of Microencapsulation</i> , 2007 , 24, 349-57	3.4	20
61	Design of niobate nanosheet-graphene oxide composite nanofiltration membranes with improved permeability. <i>Journal of Membrane Science</i> , 2020 , 595, 117598	9.6	20
60	Inorganic/organic composite ion gel membrane with high mechanical strength and high CO ₂ separation performance. <i>Journal of Membrane Science</i> , 2017 , 544, 252-260	9.6	19

59	Improved permselectivity of forward osmosis membranes for efficient concentration of pretreated rice straw and bioethanol production. <i>Journal of Membrane Science</i> , 2018 , 566, 15-24	9.6	19
58	Inorganic/Organic Double-Network Ion Gels with Partially Developed Silica-Particle Network. <i>Langmuir</i> , 2018 , 34, 10622-10633	4	18
57	Separation and Concentration of Lanthanoids Using Microcapsules Containing Acidic Organophosphorus Compounds as an Extractant.. <i>Journal of Chemical Engineering of Japan</i> , 2002 , 35, 574-581	0.8	18
56	Effects of water concentration on the free volume of amino acid ionic liquids investigated by molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 263-73	3.4	17
55	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	3.9	17
54	Monodisperse water-in-water-in-oil emulsion droplets. <i>ChemPhysChem</i> , 2011 , 12, 263-6	3.2	16
53	Fundamental investigation of osmolality, thermo-responsive phase diagram, and water-drawing ability of ionic-liquid-based draw solution for forward osmosis membrane process. <i>Journal of Membrane Science</i> , 2019 , 570-571, 93-102	9.6	15
52	Osmotically Assisted Reverse Osmosis Utilizing Hollow Fiber Membrane Module for Concentration Process. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 6721-6729	3.9	14
51	Facilitated O ₂ transport membrane containing Co(II)-salen complex-based ionic liquid as O ₂ carrier. <i>Journal of Membrane Science</i> , 2017 , 541, 393-402	9.6	14
50	Niobate nanosheet membranes with enhanced stability for nanofiltration. <i>Chemical Communications</i> , 2017 , 53, 7929-7932	5.8	13
49	Uptakes of rare metal ionic species by a column packed with microcapsules containing an extractant. <i>Separation and Purification Technology</i> , 2002 , 29, 121-130	8.3	13
48	Preparation and characterization of organic chelate ligand (OCL)-templated TiO ₂ /ZrO ₂ nanofiltration membranes. <i>Journal of Membrane Science</i> , 2019 , 591, 117304	9.6	12
47	Two-dimensional niobate nanosheet membranes for water treatment: Effect of nanosheet preparation method on membrane performance. <i>Separation and Purification Technology</i> , 2019 , 219, 222-229	8.3	11
46	Fabrication of Stacked Graphene Oxide Nanosheet Membranes Using Triethanolamine as a Crosslinker and Mild Reducing Agent for Water Treatment. <i>Membranes</i> , 2018 , 8,	3.8	11
45	Design of a new static micromixer having simple structure and excellent mixing performance. <i>Lab on A Chip</i> , 2009 , 9, 1809-12	7.2	10
44	Cs ⁺ Rejection Behavior of Polyamide RO Membranes for Feed Solutions with Extremely Low Salt Concentrations. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 8782-8788	3.9	9
43	Sucrose purification and repeated ethanol production from sugars remaining in sweet sorghum juice subjected to a membrane separation process. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 6007-6014	5.7	8
42	Hollow Fiber-Type Facilitated Transport Membrane Composed of a Polymerized Ionic Liquid-Based Gel Layer with Amino Acidate as the CO ₂ Carrier. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 2083-2092	3.9	8

41	Development of facilitated transport membranes with low viscosity aprotic heterocyclic anion type ionic liquid as a CO ₂ carrier. <i>Separation Science and Technology</i> , 2017 , 52, 197-208	2.5	8
40	Preparation of monodisperse crosslinked polymelamine microcapsules by phase separation method. <i>Colloid and Polymer Science</i> , 2008 , 286, 787-793	2.4	8
39	Extraction Mechanism of Metal Ions on the Interface between Aqueous and Organic Phases at a High Concentration of Organophosphorus Extractant. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 1105-1112	3.9	8
38	HNb ₃ O ₈ Nanosheet/Graphene Oxide Composite Membranes for Molecular Separation. <i>ACS Applied Nano Materials</i> , 2021 , 4, 3455-3466	5.6	8
37	Effects of Coexistent Ions on ¹³⁷ Cs ⁺ Rejection of a Polyamide Reverse Osmosis Membrane in the Decontamination of Wastewater with Low Cesium-137 Concentration. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 6864-6868	3.9	7
36	Tough and stretchable inorganic/organic double network ion gel containing gemini-type ionic liquid as a multiple hydrogen bond cross-linker.. <i>RSC Advances</i> , 2019 , 9, 11870-11876	3.7	7
35	Energy dissipation via the internal fracture of the silica particle network in inorganic/organic double network ion gels. <i>Soft Matter</i> , 2020 , 16, 2363-2370	3.6	7
34	Extraction of Ethyl Ester of Polyunsaturated Fatty Acids by Utilizing Slug Flow Prepared by Microreactor. <i>Journal of Chemical Engineering of Japan</i> , 2007 , 40, 1076-1084	0.8	7
33	Extraction of Precious and Base Metals with Microcapsules Containing an Extractant. <i>Journal of Chemical Engineering of Japan</i> , 2007 , 40, 31-35	0.8	7
32	Fabrication of porous polyketone forward osmosis membranes modified with aromatic compounds: Improved pressure resistance and low structural parameter. <i>Separation and Purification Technology</i> , 2020 , 251, 117400	8.3	7
31	High pressure CO ₂ solubility and physical properties of tetrabutylphosphonium L-prolinate. <i>Fluid Phase Equilibria</i> , 2016 , 420, 89-96	2.5	7
30	Inorganic/organic double-network ion gel membrane with a high ionic liquid content for CO ₂ separation. <i>Polymer Journal</i> , 2021 , 53, 137-147	2.7	7
29	The effect of chemical structures of cyclic amino acid type ionic liquids as CO ₂ carriers on facilitated transport membrane performances. <i>Separation Science and Technology</i> , 2017 , 52, 209-220	2.5	6
28	Development of a Micro-Double-Network Ion Gel-Based CO ₂ Separation Membrane from Nonvolatile Network Precursors. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 12640-12649	3.9	6
27	Toluene vapor removal using an inorganic/organic double-network ion gel membrane. <i>Separation Science and Technology</i> , 2018 , 53, 2840-2851	2.5	5
26	Development of facilitated transport membranes composed of a dense gel layer containing CO ₂ carrier formed on porous cylindrical support membranes. <i>Chemical Engineering Research and Design</i> , 2020 , 153, 284-293	5.5	5
25	Multistage osmotically assisted reverse osmosis process for concentrating solutions using hollow fiber membrane modules. <i>Chemical Engineering Research and Design</i> , 2020 , 162, 117-124	5.5	5
24	Inorganic/organic nanocomposite ion gels with well dispersed secondary silica nanoparticles.. <i>RSC Advances</i> , 2020 , 10, 14451-14457	3.7	4

23	Mechanism of Synergistic Extraction of Samarium Using Alkylphosphoric Acid as Main Extractant. <i>Journal of Chemical Engineering of Japan</i> , 2009 , 42, 563-569	0.8	4
22	Zn(II) AND Cu(II) UPTAKE FROM ACID SOLUTIONS WITH MICROCAPSULES CONTAINING A NON-SPECIFIC ALKYL PHOSPHONIC EXTRACTANT. <i>Journal of the Chilean Chemical Society</i> , 2005 , 50,	2.5	4
21	Preparation of Inorganic/Organic Double-Network Ion Gels Using a Cross-Linkable Polymer in an Open System. <i>Macromolecules</i> , 2020 , 53, 8529-8538	5.5	4
20	Investigation into the Effective Chemical Structure of Metal-Containing Ionic Liquids for Oxygen Absorption. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 23304-23316	3.9	4
19	Controlling interlayer spacing and organic solvent permeation in lamina graphene oxide membranes modified with crosslinker. <i>Separation and Purification Technology</i> , 2021 , 276, 119279	8.3	4
18	Fundamental investigation of the gas permeation mechanism of facilitated transport membranes with Co(salen)-containing ionic liquid as O ₂ carriers. <i>Separation and Purification Technology</i> , 2020 , 248, 117018	8.3	3
17	Inorganic/Organic Micro-Double-Network Ion Gel-Based Composite Membrane with Enhanced Mechanical Strength and CO ₂ Permeance. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 12698-12708	3.9	3
16	A gradient viscosity model for estimating CO ₂ permeability of amino acid ionic liquid-based facilitated transport membrane. <i>Separation and Purification Technology</i> , 2021 , 119847	8.3	3
15	?Original Contribution? Applicability of a Forward Osmosis Membrane Process for the Enhancement of Xylose Concentration to Achieve an Effective Biomass Fermentation Process Eiji Kamio,. <i>Membrane</i> , 2014 , 39, 97-105	0	2
14	Effect of ligand structures on oxygen absorbability and viscosity of metal-containing ionic liquids. <i>Journal of Molecular Liquids</i> , 2020 , 318, 114365	6	2
13	Gas Permeation Characteristics of TiO-ZrO-Aromatic Organic Chelating Ligand (aOCL) Composite Membranes. <i>Membranes</i> , 2020 , 10,	3.8	2
12	Fundamental Investigation of the Rate-Determining Step of CO ₂ Permeation through Ion Gel Membranes Containing Amino-Acid Ionic Liquid as the CO ₂ Carrier. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 7397-7405	3.9	2
11	Modeling of extraction behavior of docosahexaenoic acid ethyl ester by utilizing slug flow prepared by microreactor. <i>AIChE Journal</i> , 2009 , 56, NA-NA	3.6	1
10	Simulation of Thermoresponsive Draw Solute-Driven Forward Osmosis for Enhanced Pure Water Production in Seawater Desalination. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 9548-9559	3.9	1
9	Effect of temperature on the osmotic behavior of LCST type ionic liquid solutions as draw solutions in the forward osmosis process. <i>Separation and Purification Technology</i> , 2021 , 275, 119164	8.3	1
8	Lamina HNb3O8-based membranes supported on anodic aluminum oxide with enhanced anti-swelling property for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2021 , 640, 119799	8.6	1
7	Novel Tough Ion-Gel-Based CO ₂ Separation Membrane with Interpenetrating Polymer Network Composed of Semicrystalline and Cross-Linkable Polymers. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 4648-4658	3.9	1
6	HNb3O8/g-C3N4 nanosheet composite membranes with two-dimensional heterostructured nanochannels achieve enhanced water permeance and photocatalytic activity. <i>Chemical Engineering Journal</i> , 2022 , 136254	14.7	1

- 5 Fundamental investigation on controlling factors of reverse solute flux of branched thermo-responsive oligomer in forward osmosis process. *Desalination*, **2022**, 527, 115599 10.3 ○
- 4 ?Original Contribution? Effect of Ionic Liquid Additives on CO₂ Permeation and CO₂/N₂ Selectivity through Facilitated Transport Membranes. *Membrane*, **2015**, 40, 105-110 ○
- 3 Cutting-Edge Research at the Membrane Center in Kobe University in Japan. *Biotechnology and Biotechnological Equipment*, **2013**, 27, 3478-3484 1.6
- 2 Membrane Separation Technology for CO₂ Separation and Recovery in Japan. *Membrane*, **2017**, 42, 2-10 ○
- 1 Ionic liquid based membranes for gas separation **2022**, 1-31