

# Keiji Sakaki

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70  
papers

1,735  
citations

23  
h-index

39  
g-index

74  
ext. papers

1,822  
ext. citations

3.8  
avg, IF

4.21  
L-index

#	Paper	IF	Citations
70	An amorphous alloy membrane without noble metals for gaseous hydrogen separation. <i>Journal of Membrane Science</i> , <b>2000</b> , 164, 289-294	9.6	127
69	The relationship between overpotential and the three phase boundary length. <i>Solid State Ionics</i> , <b>1996</b> , 86-88, 1179-1185	3.3	105
68	Enhancement of the Absorption Coefficient of cis-(NCS) <sub>2</sub> Bis(2,2-Ebipyridyl-4,4-Edicarboxylate)ruthenium(II) Dye in Dye-Sensitized Solar Cells by a Silver Island Film. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 5153-5157	3.4	97
67	Microbial production of glyceric acid, an organic acid that can be mass produced from glycerol. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 7760-6	4.8	92
66	Decline in Hydrogen Permeation Due to Concentration Polarization and CO Hindrance in a Palladium Membrane Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 4913-4918	3.9	78
65	Improved crown ether-based chiral stationary phase. <i>Journal of Chromatography A</i> , <b>1992</b> , 625, 101-108	4.5	76
64	Lipase-catalyzed optical resolution of racemic naproxen in biphasic enzyme membrane reactors. <i>Journal of Membrane Science</i> , <b>2001</b> , 184, 27-38	9.6	74
63	Solubility of .beta.-carotene in dense carbon dioxide and nitrous oxide from 308 to 323 K and from 9.6 to 30 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , <b>1992</b> , 37, 249-251	2.8	68
62	Supported liquid membranes for enantioselective transport of amino acid mediated by chiral crown ether - effect of membrane solvent on transport rate and membrane stability. <i>Journal of Membrane Science</i> , <b>1993</b> , 84, 241-248	9.6	60
61	Kinetics and Hydrogen Removal Effect for Methanol Decomposition. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 488-492	3.9	57
60	Biotechnological production of D-glyceric acid and its application. <i>Applied Microbiology and Biotechnology</i> , <b>2009</b> , 84, 445-52	5.7	53
59	Electrochemical coupling of benzene hydrogenation and water electrolysis. <i>Catalysis Today</i> , <b>2000</b> , 56, 307-314	5.3	53
58	Biotransformation of glycerol to D-glyceric acid by <i>Acetobacter tropicalis</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2009</b> , 81, 1033-9	5.7	50
57	Supercritical fluid chromatographic determination of fatty acids and their esters on an ODS-silica gel column. <i>Analytical Chemistry</i> , <b>1989</b> , 61, 2076-2078	7.8	50
56	Production of glyceric acid by <i>Gluconobacter</i> sp. NBRC3259 using raw glycerol. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2009</b> , 73, 1799-805	2.1	42
55	Membrane-assisted extractive butanol fermentation by <i>Clostridium saccharoperbutylacetonicum</i> N1-4 with 1-dodecanol as the extractant. <i>Bioresource Technology</i> , <b>2012</b> , 116, 448-52	11	36
54	Effect of intraparticle diffusion in ethanol fermentation by immobilized <i>Zymomonas mobilis</i> . <i>Biotechnology and Bioengineering</i> , <b>1988</b> , 31, 603-6	4.9	32

53	Disruption of the membrane-bound alcohol dehydrogenase-encoding gene improved glycerol use and dihydroxyacetone productivity in <i>Gluconobacter oxydans</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2010</b> , 74, 1391-5	2.1	29
52	Supercritical fluid extraction of fungal oil using CO <sub>2</sub> , N <sub>2</sub> O, CHF <sub>3</sub> and SF <sub>6</sub> . <i>JAOCS, Journal of the American Oil Chemists Society</i> , <b>1990</b> , 67, 553-557	1.8	29
51	Selective separation of n-butanol from aqueous solutions by pervaporation using silicone rubber-coated silicalite membranes. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2011</b> , 86, 845-851	3.5	28
50	Enzymatic synthesis of sugar esters in organic solvent coupled with pervaporation. <i>Desalination</i> , <b>2006</b> , 193, 260-266	10.3	27
49	<i>Candida krusei</i> produces ethanol without production of succinic acid; a potential advantage for ethanol recovery by pervaporation membrane separation. <i>FEMS Yeast Research</i> , <b>2008</b> , 8, 706-14	3.1	24
48	Silicalite Pervaporation Membrane Exhibiting a Separation Factor of over 400 for Butanol. <i>Chemistry Letters</i> , <b>2010</b> , 39, 1312-1314	1.7	23
47	Optical resolution of racemic 2-hydroxy octanoic acid using biphasic enzyme membrane reactor. <i>Desalination</i> , <b>2002</b> , 149, 247-252	10.3	21
46	Performance of an emulsion enzyme membrane reactor combined with premix membrane emulsification for lipase-catalyzed resolution of enantiomers. <i>Journal of Membrane Science</i> , <b>2008</b> , 314, 183-192	9.6	20
45	Kinetics of the formation of CO <sub>2</sub> hydrate on the surface of liquid CO <sub>2</sub> droplet in water. <i>Energy Conversion and Management</i> , <b>1996</b> , 37, 485-489	10.6	20
44	Chemical Analysis of Impurities in Diverse Bioethanol Samples. <i>Journal of the Japan Petroleum Institute</i> , <b>2013</b> , 56, 414-422	1	18
43	Application of electrodialysis to glycerate recovery from a glycerol containing model solution and culture broth. <i>Journal of Bioscience and Bioengineering</i> , <b>2009</b> , 107, 425-8	3.3	18
42	Stabilized production of highly concentrated bioethanol from fermentation broths by <i>Zymomonas mobilis</i> by pervaporation using silicone rubber-coated silicalite membranes. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2007</b> , 82, 745-751	3.5	18
41	Stabilization of bioethanol recovery with silicone rubber-coated ethanol-permeable silicalite membranes by controlling the pH of acidic feed solution. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2005</b> , 80, 381-387	3.5	18
40	Bioprocessing of glycerol into glyceric Acid for use in bioplastic monomer. <i>Journal of Oleo Science</i> , <b>2011</b> , 60, 369-73	1.6	16
39	Fabrication of Mesoporous Silica Coating by Electrophoretic Deposition. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 7236-7241	3.9	16
38	Use of a <i>Gluconobacter frateurii</i> mutant to prevent dihydroxyacetone accumulation during glyceric acid production from glycerol. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2010</b> , 74, 2330-2	2.1	15
37	Supercritical fluid chromatographic separation of fatty acid methyl esters on aminopropyl-bonded silica stationary phase. <i>Journal of Chromatography A</i> , <b>1993</b> , 648, 451-457	4.5	14
36	Efficient butanol recovery from acetone-butanol-ethanol fermentation cultures grown on sweet sorghum juice by pervaporation using silicalite-1 membrane. <i>Journal of Bioscience and Bioengineering</i> , <b>2016</b> , 121, 697-700	3.3	13

35	Pervaporation of aqueous dilute 1-butanol, 2-propanol, ethanol and acetone using a tubular silicalite membrane. <i>Desalination and Water Treatment</i> , <b>2011</b> , 34, 290-294		13
34	Synthesis and evaluation of dioleoyl glyceric acids showing antitrypsin activity. <i>Journal of Oleo Science</i> , <b>2011</b> , 60, 327-31	1.6	13
33	Two-stage electro-dialytic concentration of glyceric acid from fermentation broth. <i>Journal of Bioscience and Bioengineering</i> , <b>2010</b> , 110, 690-5	3.3	13
32	Preparation of Thin and Dense Lanthanum Cobaltite Coating on Porous Tubular Alumina Supports by Electrophoretic Deposition. <i>Journal of the Ceramic Society of Japan</i> , <b>2006</b> , 114, 36-41		13
31	Pervaporative concentration of biobutanol from ABE fermentation broths by <i>Clostridium saccharoperbutylacetonicum</i> using silicone rubber-coated silicalite-1 membranes. <i>Separation and Purification Technology</i> , <b>2014</b> , 132, 206-212	8.3	12
30	Processing of ethanol fermentation broths by <i>Candida krusei</i> to separate bioethanol by pervaporation using silicone rubber-coated silicalite membranes. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2009</b> , 84, 1172-1177	3.5	11
29	Synthesis and interfacial properties of monoacyl glyceric acids as a new class of green surfactants. <i>Journal of Oleo Science</i> , <b>2012</b> , 61, 343-8	1.6	11
28	Retention Behavior of $\beta$ -Carotene on Polar and Nonpolar Stationary Phases in Supercritical Fluid Chromatography. <i>Journal of Chromatographic Science</i> , <b>1994</b> , 32, 172-178	1.4	11
27	Silage produces biofuel for local consumption. <i>Biotechnology for Biofuels</i> , <b>2011</b> , 4, 46	7.8	10
26	Synthesis of dilinoleoyl-D-glyceric acid and evaluation of its cytotoxicity to human dermal fibroblast and endothelial cells. <i>Journal of Oleo Science</i> , <b>2011</b> , 60, 483-7	1.6	8
25	Glycerol conversion to D-xylulose by a two-stage microbial reaction using <i>Candida parapsilosis</i> and <i>Gluconobacter oxydans</i> . <i>Journal of Oleo Science</i> , <b>2009</b> , 58, 595-600	1.6	8
24	CO <sub>2</sub> mitigation by new energy systems. <i>Energy Conversion and Management</i> , <b>1997</b> , 38, S655-S660	10.6	8
23	Influence of Water on the Preparation of Thick Mesoporous Silica Coatings by the Electrophoretic Deposition Method. <i>Key Engineering Materials</i> , <b>2009</b> , 412, 171-176	0.4	7
22	Isolation and characterization of thermotolerant fungi producing lignoceric acid from glycerol. <i>Journal of Oleo Science</i> , <b>2008</b> , 57, 251-5	1.6	7
21	Separation of secondary alcohol enantiomers using supercritical fluid chromatography. <i>Journal of Chromatography A</i> , <b>1991</b> , 585, 117-122	4.5	7
20	Membrane-bound alcohol dehydrogenase is essential for glyceric acid production in <i>Acetobacter tropicalis</i> . <i>Journal of Oleo Science</i> , <b>2011</b> , 60, 489-94	1.6	7
19	Electrophoretic deposition of mesoporous silica powder synthesized by spray-drying method. <i>Journal of the Ceramic Society of Japan</i> , <b>2011</b> , 119, 168-172	1	6
18	Stepwise synthesis of 2,3-O-dipalmitoyl-D-glyceric acid and an in vitro evaluation of its cytotoxicity. <i>Journal of Oleo Science</i> , <b>2012</b> , 61, 337-41	1.6	5

17	Effect of glyceric acid calcium salt on the viability of ethanol-dosed gastric cells. <i>Journal of Oleo Science</i> , <b>2011</b> , 60, 585-90	1.6	5
16	Preparation of nanoporous inorganic membrane on supports with graded structure. <i>Desalination and Water Treatment</i> , <b>2010</b> , 17, 99-105		5
15	Electrophoretic Deposition Mechanism of Mesoporous Silica Powder in Acetone. <i>Key Engineering Materials</i> , <b>2009</b> , 412, 131-136	0.4	5
14	Optical resolution of racemic 2-hydroxy octanoic acid by lipase-catalyzed hydrolysis in a biphasic membrane reactor. <i>Biotechnology Letters</i> , <b>2003</b> , 25, 1591-5	3	5
13	Estimation of the interface states density of a Si/C60 heterojunction by frequency-dependent capacitance-voltage characteristics. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 6246-6251	2.5	4
12	Detection of acetyl monoglyceride as a metabolite of newly isolated glycerol-assimilating bacteria. <i>Journal of Oleo Science</i> , <b>2009</b> , 58, 147-54	1.6	4
11	Preparation of tubular mixed conducting oxide membrane by electrophoretic deposition technique. <i>Desalination</i> , <b>2006</b> , 200, 71-73	10.3	4
10	Studies on Production of Lipids in Fungi. XVIII.. <i>Journal of Japan Oil Chemists Society</i> , <b>1987</b> , 36, 943-946		3
9	Generation Efficiency of Solid Oxide Fuel Cell System with Fuel Recycling.. <i>Kagaku Kogaku Ronbunshu</i> , <b>1997</b> , 23, 292-295	0.4	2
8	Influence of Carbon Content and End-Capping of ODS Stationary Phases on the Separation Behavior of Triacylglycerols in LC and SFC. <i>Journal of Liquid Chromatography and Related Technologies</i> , <b>2004</b> , 27, 387-405	1.3	2
7	Effect of membrane-bound aldehyde dehydrogenase-encoding gene disruption on glyceric acid production in <i>Gluconobacter oxydans</i> . <i>Journal of Oleo Science</i> , <b>2014</b> , 63, 953-7	1.6	2
6	Studies on Production of Lipids in Fungi. XIX.. <i>Journal of Japan Oil Chemists Society</i> , <b>1988</b> , 37, 54-56		2
5	Electrophoretic Deposition of Oxide Powder by Using Non-Flammable Organic Solvent. <i>Ceramic Engineering and Science Proceedings</i> , 177-185	0.1	2
4	Surface silylation of silicalite membranes and their pervaporation performance for the separation of ethanol from ethanol-water mixtures. <i>Journal of the Ceramic Society of Japan</i> , <b>2014</b> , 122, 357-360	1	1
3	Effect of particle contact due to bed compaction on effectiveness factors in immobilized invertase packed columns.. <i>Kagaku Kogaku Ronbunshu</i> , <b>1986</b> , 12, 90-96	0.4	1
2	Separation and Functional Evaluation of Dark Brown Colorants in Distillery Wastewater from a Sugarcane-Molasses-Derived Bioethanol Production Process. <i>Journal of Water and Environment Technology</i> , <b>2014</b> , 12, 407-420	1.1	0
1	Adsorptive Removal of Hydrogen Sulfide from Bioethanol-Derived Propylene. <i>Journal of Chemical Engineering of Japan</i> , <b>2012</b> , 45, 955-959	0.8	