

Kouji Maeda

List of Publications by Year in descending order

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110
papers

1,352
citations

361413

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434195

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docs citations

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times ranked

1211
citing authors

#	ARTICLE	IF	CITATIONS
1	Isothermal solid-liquid equilibrium for three binary systems of oleic acid, linoleic acid and $\hat{\pm}$ -linolenic acid under high pressure. <i>Journal of Chemical Thermodynamics</i> , 2022, 165, 106647.	2.0	4
2	Enhanced triacylglycerol accumulation in open cultivation of microalgae using an air self-sufficient aerator. <i>Bioresource Technology Reports</i> , 2022, 17, 100916.	2.7	2
3	Industrial Crystallization of Potassium Sulfate Using a Suspension Crystallizer: Inclusion of Mother Liquor and an Impurity Distribution Model. <i>Journal of Chemical Engineering of Japan</i> , 2022, 55, 188-192.	0.6	4
4	Recovery of Phosphorus from Waste Solution of Electroless Nickel-Phosphorus Plating. <i>MATEC Web of Conferences</i> , 2021, 333, 11010.	0.2	0
5	The Fluidization Effect of a Bilayer Membrane on a Fatty Acid Vesicle by a Detergent. <i>Crystals</i> , 2021, 11, 1023.	2.2	3
6	High-Pressure crystallization of binary unsaturated fatty acids in cylindrical cell. <i>Journal of Crystal Growth</i> , 2021, 576, 126380.	1.5	0
7	Development of a Liquid Immersion-Type Nickel-Metal Hydride Battery Under High-Pressure. <i>Journal of the Electrochemical Society</i> , 2021, 168, 120511.	2.9	2
8	Aggregation of immobilized enzyme during transesterification of triolein and methanol, and the effect of two types of aggregates on reaction yield. <i>Fuel</i> , 2020, 260, 116343.	6.4	3
9	Transesterification of triolein and methanol with Novozym 435 using co-solvents. <i>Fuel</i> , 2020, 263, 116600.	6.4	6
10	Simple solvatochromic spectroscopic quantification of long-chain fatty acids for biological toxicity assay in biogas plants. <i>Environmental Science and Pollution Research</i> , 2020, 27, 17596-17606.	5.3	2
11	Kinetic Modelling of Electroless Nickel-Phosphorus Plating under High Pressure. <i>ACS Omega</i> , 2020, 5, 6937-6946.	3.5	1
12	Mechanism of Potential Oscillation during Electrolysis of Water in Acidic Solutions. <i>Electrochemistry</i> , 2020, 88, 157-164.	1.4	3
13	Control of Generation of Lead Sulfate Particles in Lead-acid Battery using Ion-exchangeable Glass Mat as Separator. <i>Journal of the Society of Powder Technology, Japan</i> , 2020, 57, 144-149.	0.1	1
14	Purification of Phosphoric Acid by Adsorption-Assisted Crystallization. <i>Kagaku Kogaku Ronbunshu</i> , 2020, 46, 152-155.	0.3	4
15	Effect of Taylor Vortex on Melt Crystallization of Fatty Acids. <i>Crystal Research and Technology</i> , 2019, 54, 1900050.	1.3	3
16	Dispersed air flotation of microalgae using venturi tube type microbubble generator. <i>Biomass and Bioenergy</i> , 2019, 130, 105379.	5.7	6
17	Ozonation of aqueous phenol using high-silica zeolite in an aerated mixing vessel. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018, 13, e2175.	1.5	3
18	Use of ethanol with triolein for fatty acid ethyl ester as biodiesel fuel in a Novozym $\hat{\text{A}}^{\text{®}}$ 435 fixed-bed reactor. <i>Biomass and Bioenergy</i> , 2018, 108, 433-438.	5.7	9

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19	Molecular Dynamics Simulation on Stability of Vapor Nanobubbles. Japanese Journal of Multiphase Flow, 2018, 32, 43-48.	0.3	0
20	Electroless Nickel-Phosphorus Plating under High Pressure. Kagaku Kogaku Ronbunshu, 2018, 44, 35-38.	0.3	1
21	Crystallizing Concentration of the Diatom & Chaetoceros gracilis Cell Solutions. Kagaku Kogaku Ronbunshu, 2018, 44, 18-22.	0.3	0
22	Molecular dynamics study on phase equilibrium around vapor bubbles in low-density liquid argon. Journal of Molecular Liquids, 2017, 230, 322-328.	4.9	4
23	Melt crystallization of binary mixture of fatty acids as model biofuel. Crystal Research and Technology, 2017, 52, 1600316.	1.3	4
24	Solid-Liquid Equilibria in the Binary Systems of Saturated Fatty Acids or Triglycerides (C12 to C18) + Hexadecane. Journal of Chemical & Engineering Data, 2017, 62, 35-43.	1.9	12
25	Transesterification of Triolein and Methanol by Novozym 435 with Dimethyl Ether. Journal of Chemical Engineering of Japan, 2017, 50, 924-928.	0.6	3
26	A Simple Method for the Detection of Long-Chain Fatty Acids in an Anaerobic Digestate Using a Quartz Crystal Sensor. Energies, 2017, 10, 19.	3.1	12
27	Consecutive Vacuum Degassing and Steam Treatment of Sewage Sludge using a Steam Ejector. Kagaku Kogaku Ronbunshu, 2017, 43, 57-62.	0.3	1
28	Application of solute distribution theory to melt crystallization of fatty acids. Chemical Engineering Science, 2016, 143, 114-121.	3.8	31
29	Application of Industrial Crystallization Model for Charge-Discharge Cycle of Lead-Acid Batteries at High Pressure. Journal of Chemical Engineering of Japan, 2015, 48, 815-820.	0.6	2
30	Anti-solvent crystallization of a ternary Lennard-Jones mixture performed by molecular dynamics. Journal of Molecular Liquids, 2015, 209, 1-5.	4.9	7
31	Prolonged Life and Fast Secondary Formation of the Electrodes of Lead-Acid Battery during Charge-Discharge Cycle under High-Pressure Crystallization. Journal of the Electrochemical Society, 2015, 162, A21-A25.	2.9	4
32	Dual-fuel production from restaurant grease trap waste: Bio-fuel oil extraction and anaerobic methane production from the post-extracted residue. Bioresource Technology, 2014, 169, 134-142.	9.6	34
33	Fast charging of lead-acid batteries enabled by high-pressure crystallization. Physical Chemistry Chemical Physics, 2014, 16, 4911.	2.8	6
34	Novel charge/discharge method for lead acid battery by high-pressure crystallization. Journal of Crystal Growth, 2013, 373, 138-141.	1.5	10
35	Electrical Conductivity of Aqueous Ethanol Solutions Containing Ammonium Salts under High Pressure at 298 K. Journal of Chemical & Engineering Data, 2013, 58, 264-270.	1.9	7
36	Melt crystallization for refinement of triolein and palmitic acid mixture as a model waste oil for biodiesel fuel production. Journal of Crystal Growth, 2013, 373, 102-105.	1.5	6

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37	Effect of polymerization and preheating processes on poly(ethylene terephthalate) depolymerization. <i>Journal of Applied Polymer Science</i> , 2012, 125, 1161-1165.	2.6	0
38	Solid~Liquid Equilibria in Fatty Acid/Triglycerol Systems. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 1613-1616.	1.9	19
39	Upgrading trap grease to an alternative to fossil fuel and its cost and GHG emissions. , 2011, , .		0
40	Effects of microwave irradiation on triglyceride transesterification: Experimental and theoretical studies. <i>Biochemical Engineering Journal</i> , 2011, 58-59, 20-24.	3.6	20
41	Mechanism of Depolymerization Reaction of Polyethylene Terephthalate: Experimental and Theoretical Studies. <i>Journal of Polymers and the Environment</i> , 2011, 19, 209-216.	5.0	16
42	Monitoring nonisothermal crystallization of thermoplastic polymers using a quartz crystal resonator. <i>Journal of Applied Polymer Science</i> , 2011, 120, 3370-3380.	2.6	2
43	De-emulsification of mixtures containing glycerin and fatty acid methyl ester promoted by dimethyl ether co-solvent. <i>Chemical Engineering Journal</i> , 2011, 169, 226-230.	12.7	7
44	Experimental kinetics studies of seeded batch crystallisation of mono-ammonium phosphate. <i>Advanced Powder Technology</i> , 2010, 21, 392-400.	4.1	32
45	Semi-batch reactive crystallisation of mono-ammonium phosphate: An experimental study. <i>Chemical Engineering Journal</i> , 2010, 156, 594-600.	12.7	9
46	Melting Properties of Biodiesel Mixtures. <i>Kagaku Kogaku Ronbunshu</i> , 2010, 36, 432-434.	0.3	1
47	Separation of fatty acids from binary melts using physical vapour deposition (PVD). <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 316-319.	3.2	0
48	Theoretical study of the transesterification reaction of polyethylene terephthalate under basic conditions. <i>Polymer Degradation and Stability</i> , 2009, 94, 240-245.	5.8	13
49	Theoretical study of the transesterification of triglycerides to biodiesel fuel. <i>Fuel</i> , 2009, 88, 786-791.	6.4	90
50	Application of UNIFAC models for prediction of vapor~liquid and liquid~liquid equilibria relevant to separation and purification processes of crude biodiesel fuel. <i>Fuel</i> , 2009, 88, 1472-1477.	6.4	79
51	Determination of crystal nucleus size of potassium chloride from ethanol solution caused by ultrasonic irradiation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 902-906.	3.6	5
52	Formation of fine crystals of potassium chloride dissolved in aqueous ethanol solution by spray evaporation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 1270-1273.	3.6	0
53	Kinetic and theoretical studies of metal ion adsorption in KDP solution. <i>Applied Surface Science</i> , 2009, 255, 4140-4144.	6.1	7
54	Prediction of Solid~Liquid Phase Equilibrium in the System of Water (1) + Alcohols (2) + MgSO4~7H2O (3) + MnSO4~H2O (4) by the Ion-Specific Electrolyte NRTL Model. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 423-427.	1.9	2

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55	Prediction of Attrited and Fragmented Crystal Size by Micro-hardness Parameters in Suspension-crystallization Processes. <i>Journal of the Society of Powder Technology, Japan</i> , 2009, 46, 750-755.	0.1	0
56	Quantum estimation of impurity effect for KDP crystal growth. <i>Computational and Theoretical Chemistry</i> , 2008, 851, 225-231.	1.5	11
57	Fragmentation behavior of aggregated crystal in suspension crystallization processes. <i>Powder Technology</i> , 2008, 181, 266-272.	4.2	4
58	A study of growth mechanism of KDP and ADP crystals by means of quantum chemistry. <i>Applied Surface Science</i> , 2008, 254, 4524-4530.	6.1	35
59	Concentration of sodium chloride in aqueous solution by chlorodifluoromethane gas hydrate. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008, 47, 2281-2286.	3.6	19
60	Determination of physicochemical properties of tetrabromobisphenol A. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 2413-2418.	4.3	62
61	Phase Equilibrium of Biodiesel Compounds for the Triolein + Palmitic Acid + Methanol System with Dimethyl Ether as Cosolvent. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 973-977.	1.9	14
62	Superfast Transesterification of Triolein Using Dimethyl Ether and a Method for High-Yield Transesterification. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 10076-10079.	3.7	19
63	New concept of solute distribution around a diffusive crystal-solution interface of a binary Lennard-Jones mixture from the viewpoint of molecular dynamics. <i>Journal of Chemical Physics</i> , 2008, 128, 044716.	3.0	6
64	Clarification of Impurity Colouring and Adsorption Mechanism for KDP Crystal Growth by Computational Chemistry. <i>Journal of Computer Chemistry Japan</i> , 2008, 7, 1-8.	0.1	0
65	Distribution of Cations in Ice Grown on a Rotating Cold Cylinder. <i>Journal of Chemical Engineering of Japan</i> , 2008, 41, 344-349.	0.6	6
66	Physicochemical properties of selected polybrominated diphenyl ethers and extension of the UNIFAC model to brominated aromatic compounds. <i>Chemosphere</i> , 2007, 67, 1858-1865.	8.2	41
67	Surface Topography of Dyed Potassium Dihydrogen Phosphate (KDP) Crystals. <i>Crystal Growth and Design</i> , 2007, 7, 420-424.	3.0	14
68	Colouring mechanism of dyed KDP crystal by quantum chemistry. <i>Computational and Theoretical Chemistry</i> , 2007, 810, 7-13.	1.5	31
69	PVD of fatty acids on a cold quartz crystal sensor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007, 46, 532-536.	3.6	2
70	Nucleation monitoring in cooling crystallization with a quartz crystal oscillator. <i>Analytica Chimica Acta</i> , 2006, 558, 337-344.	5.4	10
71	Distribution of metallic ions in a single KDP crystal grown from aqueous solution. <i>Crystal Research and Technology</i> , 2006, 41, 955-960.	1.3	9
72	WATER SOLUBILITY OF SOLID SOLUTION OF PHENANTHRENE AND ANTHRACENE MIXTURE. <i>Polycyclic Aromatic Compounds</i> , 2006, 26, 299-312.	2.6	3

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73	Melt Crystallization of Fatty Acids on a Rotating Cold Cylinder. Journal of Chemical Engineering of Japan, 2006, 39, 1154-1160.	0.6	3
74	Configurations of solute molecules from homogeneous binary solution during crystallization on molecular dynamics simulations. Journal of Molecular Liquids, 2005, 122, 43-48.	4.9	6
75	Generation of nanometer-scale crystals of hydrophobic compound from aqueous solution. Chemical Engineering and Processing: Process Intensification, 2005, 44, 941-947.	3.6	6
76	Inclusion of mother liquor inside KDP crystals in a continuous MSMPR crystallizer. Separation and Purification Technology, 2005, 43, 71-76.	7.9	36
77	Distribution of dye into KDP crystals in a continuous MSMPR crystallizer. Separation and Purification Technology, 2005, 43, 77-83.	7.9	24
78	Measurement of hysteresis in crystallization with a quartz crystal sensor. Korean Journal of Chemical Engineering, 2005, 22, 99-102.	2.7	17
79	Determination of Ion-Specific NRTL Parameters for Predicting Phase Equilibria in Aqueous Multielectrolyte Solutions. Industrial & Engineering Chemistry Research, 2005, 44, 3289-3297.	3.7	14
80	WATER SOLUBILITY AND PARTITIONING BEHAVIOR OF BROMINATED PHENOLS. Environmental Toxicology and Chemistry, 2004, 23, 1386.	4.3	47
81	Promotion of crystal growth rate in aqueous solution by direct contact with gas corona discharge. Crystal Research and Technology, 2004, 39, 291-296.	1.3	3
82	Synergy of organic dyes for KDP crystal growth. Crystal Research and Technology, 2004, 39, 1006-1013.	1.3	23
83	Measurements of Water Solubilities and 1-Octanol/Water Partition Coefficients and Estimations of Henry's Law Constants for Brominated Benzenes. Journal of Chemical & Engineering Data, 2004, 49, 720-724.	1.9	26
84	Solid-liquid phase transition of binary Lennard-Jones mixtures on molecular dynamics simulations. Journal of Molecular Liquids, 2003, 102, 1-9.	4.9	12
85	Solubility of Manganese Sulfate Monohydrate in the Presence of Trace Quantities of Magnesium Sulfate Heptahydrate in Water. Asia-Pacific Journal of Chemical Engineering, 2003, 11, 423-435.	0.0	7
86	Inclusion of Mother Liquor inside KCl Crystals in a Continuous MSMPR Crystallizer.. Journal of Chemical Engineering of Japan, 2002, 35, 1146-1150.	0.6	11
87	Liquid~Liquid and Solid~Liquid Equilibria in Systems Containing n-Eicosane, n-Tetracosane, Ethanol, and Water. Journal of Chemical & Engineering Data, 2002, 47, 106-109.	1.9	3
88	Solubility of Two Salts Containing Sulfate and Chloride Ions in Water for Ternary Systems at 313 K. Journal of Chemical & Engineering Data, 2002, 47, 1472-1475.	1.9	19
89	Prediction of physico-chemical properties for PCDDs/DFs using the UNIFAC model with an alternative approximation for group assignment. Chemosphere, 2002, 49, 135-142.	8.2	9
90	Effects of crystal growth rate and heat and mass transfer on solute distribution. Chemical Engineering Science, 2002, 57, 3133-3140.	3.8	24

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91	Coloring and habit modification of dyed KDP crystals as functions of supersaturation and dye concentration. <i>Journal of Crystal Growth</i> , 2002, 235, 541-546.	1.5	55
92	Direct numerical simulation of solid-layer crystallization from binary melt. <i>Journal of Crystal Growth</i> , 2002, 235, 633-639.	1.5	8
93	Novel Phenomena of Crystallization and Emulsification of Hydrophobic Solute in Aqueous Solution. <i>Journal of Colloid and Interface Science</i> , 2001, 234, 217-222.	9.4	23
94	Melt layer solidification of fatty acids in a rectangular cell. <i>Journal of Chemical Physics</i> , 2000, 112, 1554-1559.	3.0	12
95	Solid-liquid equilibria and binodals of liquid-liquid equilibria for the quaternary systems aqueous solution+binary fatty acids. <i>Fluid Phase Equilibria</i> , 1999, 162, 193-209.	2.5	7
96	New Crystallization of Fatty Acids from Aqueous Ethanol Solution Combined with Liquid-Liquid Extraction. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 2428-2433.	3.7	10
97	Crystallization of fatty acids using binodal regions of two liquid phases. <i>Chemical Engineering Science</i> , 1998, 53, 1103-1105.	3.8	10
98	Adsorption of growth suppressor chromium (III) on potassium sulfate crystals in aqueous solution. <i>Journal of Crystal Growth</i> , 1998, 186, 438-445.	1.5	19
99	Distribution of solute at solid-liquid interface during solidification of melt. <i>Journal of Chemical Physics</i> , 1998, 109, 7468-7473.	3.0	26
100	Effects of Aluminium, Ferric and Chromium Ion on KDP, ADP Crystallization.. <i>Kagaku Kogaku Ronbunshu</i> , 1998, 24, 143-145.	0.3	4
101	Effect of Traces Lead(II) Ion on the Crystal Habit of Potassium Dihydrogen Phosphate.. <i>Journal of Chemical Engineering of Japan</i> , 1998, 31, 295-297.	0.6	12
102	Numerical Simulation of Dynamic Layer Solidification for a Eutectic Binary System.. <i>Journal of Chemical Engineering of Japan</i> , 1998, 31, 445-450.	0.6	12
103	Extraction and Crystallization of Fatty Acids by Ethanol Aqueous Solution.. <i>Kagaku Kogaku Ronbunshu</i> , 1997, 23, 433-436.	0.3	4
104	Vapor-Liquid-Solid Equilibria for the System Propane or 2-Methylpropane + Dodecanoic Acid + Tetradecanoic Acid. <i>Journal of Chemical & Engineering Data</i> , 1997, 42, 791-794.	1.9	5
105	Separation of fatty acids by crystallization using two liquid phases. <i>Korean Journal of Chemical Engineering</i> , 1997, 14, 175-178.	2.7	7
106	Binodal curve of two liquid phases and solid-liquid equilibrium for water + fatty acid + ethanol systems and water + fatty acid + acetone systems. <i>Fluid Phase Equilibria</i> , 1997, 130, 281-294.	2.5	17
107	Unsteady-state impurity effect of chromium (III) on the growth rate of potassium sulfate crystal in aqueous solution. <i>Journal of Crystal Growth</i> , 1997, 181, 272-280.	1.5	33
108	Continuous Crystallization of Phosphoric Acid Using Suspension Crystallizer: Effect of Operating Conditions on Purity of Crystals. <i>Crystal Research and Technology</i> , 0, , 2100102.	1.3	3

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109	Development of a Novel Supersaturation Monitoring System in Continuous Crystallization of KAl(SO) ₄ · 12H ₂ O. <i>Journal of Chemical Engineering</i> , 2014, 115, 1-10. doi:10.1016/j.jce.2014.03.001	0.784314	14
110	Pressure-induced evolution in durability of nickel-metal hydride battery under high-current charge. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1111-1118. doi:10.1039/C3CP53006A	2.8	6