

Kouji Maeda

List of Publications by Year in descending order

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110
papers

1,352
citations

361413

20
h-index

434195

31
g-index

110
all docs

110
docs citations

110
times ranked

1211
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical study of the transesterification of triglycerides to biodiesel fuel. <i>Fuel</i> , 2009, 88, 786-791.	6.4	90
2	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
3	Determination of physicochemical properties of tetrabromobisphenol A. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 2413-2418.	4.3	62
4	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
5	WATER SOLUBILITY AND PARTITIONING BEHAVIOR OF BROMINATED PHENOLS. <i>Environmental Toxicology and Chemistry</i> , 2004, 23, 1386.	4.3	47
6	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
7	Inclusion of mother liquor inside KDP crystals in a continuous MSMR crystallizer. <i>Separation and Purification Technology</i> , 2005, 43, 71-76.	7.9	36
8	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
9	Dual-fuel production from restaurant grease trap waste: Bio-fuel oil extraction and anaerobic methane production from the post-extracted residue. <i>Bioresource Technology</i> , 2014, 169, 134-142.	9.6	34
10	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
11	Experimental kinetics studies of seeded batch crystallisation of mono-ammonium phosphate. <i>Advanced Powder Technology</i> , 2010, 21, 392-400.	4.1	32
12	Colouring mechanism of dyed KDP crystal by quantum chemistry. <i>Computational and Theoretical Chemistry</i> , 2007, 810, 7-13.	1.5	31
13	Application of solute distribution theory to melt crystallization of fatty acids. <i>Chemical Engineering Science</i> , 2016, 143, 114-121.	3.8	31
14	Distribution of solute at solid-liquid interface during solidification of melt. <i>Journal of Chemical Physics</i> , 1998, 109, 7468-7473.	3.0	26
15	Measurements of Water Solubilities and 1-Octanol/Water Partition Coefficients and Estimations of Henry's Law Constants for Brominated Benzenes. <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 720-724.	1.9	26
16	Effects of crystal growth rate and heat and mass transfer on solute distribution. <i>Chemical Engineering Science</i> , 2002, 57, 3133-3140.	3.8	24
17	Distribution of dye into KDP crystals in a continuous MSMR crystallizer. <i>Separation and Purification Technology</i> , 2005, 43, 77-83.	7.9	24
18	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

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19	Synergy of organic dyes for KDP crystal growth. <i>Crystal Research and Technology</i> , 2004, 39, 1006-1013.	1.3	23
20	Effects of microwave irradiation on triglyceride transesterification: Experimental and theoretical studies. <i>Biochemical Engineering Journal</i> , 2011, 58-59, 20-24.	3.6	20
21	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
22	Solubility of Two Salts Containing Sulfate and Chloride Ions in Water for Ternary Systems at 313 K. <i>Journal of Chemical & Engineering Data</i> , 2002, 47, 1472-1475.	1.9	19
23	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
24	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
25	Solid-Liquid Equilibria in Fatty Acid/Triglycerol Systems. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 1613-1616.	1.9	19
26	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
27	Measurement of hysteresis in crystallization with a quartz crystal sensor. <i>Korean Journal of Chemical Engineering</i> , 2005, 22, 99-102.	2.7	17
28	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
29	Determination of Ion-Specific NRTL Parameters for Predicting Phase Equilibria in Aqueous Multielectrolyte Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 3289-3297.	3.7	14
30	Surface Topography of Dyed Potassium Dihydrogen Phosphate (KDP) Crystals. <i>Crystal Growth and Design</i> , 2007, 7, 420-424.	3.0	14
31	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
32	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
33	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
34	Melt layer solidification of fatty acids in a rectangular cell. <i>Journal of Chemical Physics</i> , 2000, 112, 1554-1559.	3.0	12
35	Solid-liquid phase transition of binary Lennard-Jones mixtures on molecular dynamics simulations. <i>Journal of Molecular Liquids</i> , 2003, 102, 1-9.	4.9	12
36	Solid-Liquid Equilibria in the Binary Systems of Saturated Fatty Acids or Triglycerides (C12 to C18) + Hexadecane. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 35-43.	1.9	12

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37	A Simple Method for the Detection of Long-Chain Fatty Acids in an Anaerobic Digestate Using a Quartz Crystal Sensor. <i>Energies</i> , 2017, 10, 19.	3.1	12
38	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
39	Inclusion of Mother Liquor inside KCl Crystals in a Continuous MSMPR Crystallizer.. <i>Journal of Chemical Engineering of Japan</i> , 2002, 35, 1146-1150.	0.6	11
40	Quantum estimation of impurity effect for KDP crystal growth. <i>Computational and Theoretical Chemistry</i> , 2008, 851, 225-231.	1.5	11
41	Crystallization of fatty acids using binodal regions of two liquid phases. <i>Chemical Engineering Science</i> , 1998, 53, 1103-1105.	3.8	10
42	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
43	Nucleation monitoring in cooling crystallization with a quartz crystal oscillator. <i>Analytica Chimica Acta</i> , 2006, 558, 337-344.	5.4	10
44	Novel charge/discharge method for lead acid battery by high-pressure crystallization. <i>Journal of Crystal Growth</i> , 2013, 373, 138-141.	1.5	10
45	Prediction of physico-chemical properties for PCDDs/DFs using the UNIFAC model with an alternative approximation for group assignment. <i>Chemosphere</i> , 2002, 49, 135-142.	8.2	9
46	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
47	Semi-batch reactive crystallisation of mono-ammonium phosphate: An experimental study. <i>Chemical Engineering Journal</i> , 2010, 156, 594-600.	12.7	9
48	Use of ethanol with triolein for fatty acid ethyl ester as biodiesel fuel in a Novozym \hat{A} ® 435 fixed-bed reactor. <i>Biomass and Bioenergy</i> , 2018, 108, 433-438.	5.7	9
49	Direct numerical simulation of solid-layer crystallization from binary melt. <i>Journal of Crystal Growth</i> , 2002, 235, 633-639.	1.5	8
50	Separation of fatty acids by crystallization using two liquid phases. <i>Korean Journal of Chemical Engineering</i> , 1997, 14, 175-178.	2.7	7
51	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
52	Solubility of Manganese Sulfate Monohydrate in the Presence of Trace Quantities of Magnesium Sulfate Heptahydrate in Water. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2003, 11, 423-435.	0.0	7
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	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

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55	Electrical Conductivity of Aqueous Ethanol Solutions Containing Ammonium Salts under High Pressure at 298 K. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 264-270.	1.9	7
56	Anti-solvent crystallization of a ternary Lennard-Jones mixture performed by molecular dynamics. <i>Journal of Molecular Liquids</i> , 2015, 209, 1-5.	4.9	7
57	Configurations of solute molecules from homogeneous binary solution during crystallization on molecular dynamics simulations. <i>Journal of Molecular Liquids</i> , 2005, 122, 43-48.	4.9	6
58	Generation of nanometer-scale crystals of hydrophobic compound from aqueous solution. <i>Chemical Engineering and Processing: Process Intensification</i> , 2005, 44, 941-947.	3.6	6
59	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
60	Melt crystallization for refinement of triolein and palmitic acid mixture as a model waste oil for biodiesel fuel production. <i>Journal of Crystal Growth</i> , 2013, 373, 102-105.	1.5	6
61	Fast charging of lead-acid batteries enabled by high-pressure crystallization. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4911.	2.8	6
62	Dispersed air flotation of microalgae using venturi tube type microbubble generator. <i>Biomass and Bioenergy</i> , 2019, 130, 105379.	5.7	6
63	Transesterification of triolein and methanol with Novozym 435 using co-solvents. <i>Fuel</i> , 2020, 263, 116600.	6.4	6
64	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
65	Pressure-induced evolution in durability of nickel-metal hydride battery under high-current charge. <i>Physical Chemistry Chemical Physics</i> , 0, , .	2.8	6
66	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
67	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
68	Extraction and Crystallization of Fatty Acids by Ethanol Aqueous Solution.. <i>Kagaku Kogaku Ronbunshu</i> , 1997, 23, 433-436.	0.3	4
69	Effects of Aluminium, Ferric and Chromium Ion on KDP, ADP Crystallization.. <i>Kagaku Kogaku Ronbunshu</i> , 1998, 24, 143-145.	0.3	4
70	Fragmentation behavior of aggregated crystal in suspension crystallization processes. <i>Powder Technology</i> , 2008, 181, 266-272.	4.2	4
71	Prolonged Life and Fast Secondary Formation of the Electrodes of Lead-Acid Battery during Charge-Discharge Cycle under High-Pressure Crystallization. <i>Journal of the Electrochemical Society</i> , 2015, 162, A21-A25.	2.9	4
72	Molecular dynamics study on phase equilibrium around vapor bubbles in low-density liquid argon. <i>Journal of Molecular Liquids</i> , 2017, 230, 322-328.	4.9	4

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73	Melt crystallization of binary mixture of fatty acids as model biofuel. <i>Crystal Research and Technology</i> , 2017, 52, 1600316.	1.3	4
74	Isothermal solid-liquid equilibrium for three binary systems of oleic acid, linoleic acid and \pm -linolenic acid under high pressure. <i>Journal of Chemical Thermodynamics</i> , 2022, 165, 106647.	2.0	4
75	Purification of Phosphoric Acid by Adsorption-Assisted Crystallization. <i>Kagaku Kogaku Ronbunshu</i> , 2020, 46, 152-155.	0.3	4
76	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
77	Liquid~Liquid and Solid~Liquid Equilibria in Systems Containing n-Eicosane, n-Tetracosane, Ethanol, and Water. <i>Journal of Chemical & Engineering Data</i> , 2002, 47, 106-109.	1.9	3
78	Promotion of crystal growth rate in aqueous solution by direct contact with gas corona discharge. <i>Crystal Research and Technology</i> , 2004, 39, 291-296.	1.3	3
79	WATER SOLUBILITY OF SOLID SOLUTION OF PHENANTHRENE AND ANTHRACENE MIXTURE. <i>Polycyclic Aromatic Compounds</i> , 2006, 26, 299-312.	2.6	3
80	Transesterification of Triolein and Methanol by Novozym 435 with Dimethyl Ether. <i>Journal of Chemical Engineering of Japan</i> , 2017, 50, 924-928.	0.6	3
81	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
82	Effect of Taylor Vortex on Melt Crystallization of Fatty Acids. <i>Crystal Research and Technology</i> , 2019, 54, 1900050.	1.3	3
83	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
84	The Fluidization Effect of a Bilayer Membrane on a Fatty Acid Vesicle by a Detergent. <i>Crystals</i> , 2021, 11, 1023.	2.2	3
85	Melt Crystallization of Fatty Acids on a Rotating Cold Cylinder. <i>Journal of Chemical Engineering of Japan</i> , 2006, 39, 1154-1160.	0.6	3
86	Mechanism of Potential Oscillation during Electrolysis of Water in Acidic Solutions. <i>Electrochemistry</i> , 2020, 88, 157-164.	1.4	3
87	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
88	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
89	Prediction of Solid~Liquid Phase Equilibrium in the System of Water (1) + Alcohols (2) + MgSO ₄ ·7H ₂ O (3) + MnSO ₄ ·H ₂ O (4) by the Ion-Specific Electrolyte NRTL Model. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 423-427.	1.9	2
90	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

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91	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
92	Simple solvatochromic spectroscopic quantification of long-chain fatty acids for biological toxicity assay in biogas plants. Environmental Science and Pollution Research, 2020, 27, 17596-17606.	5.3	2
93	Development of a Liquid Immersion-Type Nickel-Metal Hydride Battery Under High-Pressure. Journal of the Electrochemical Society, 2021, 168, 120511.	2.9	2
94	Enhanced triacylglycerol accumulation in open cultivation of microalgae using an air self-sufficient aerator. Bioresource Technology Reports, 2022, 17, 100916.	2.7	2
95	Kinetic Modelling of Electroless Nickel-Phosphorus Plating under High Pressure. ACS Omega, 2020, 5, 6937-6946.	3.5	1
96	Melting Properties of Biodiesel Mixtures. Kagaku Kogaku Ronbunshu, 2010, 36, 432-434.	0.3	1
97	Consecutive Vacuum Degassing and Steam Treatment of Sewage Sludge using a Steam Ejector. Kagaku Kogaku Ronbunshu, 2017, 43, 57-62.	0.3	1
98	Electroless Nickel-Phosphorus Plating under High Pressure. Kagaku Kogaku Ronbunshu, 2018, 44, 35-38.	0.3	1
99	Control of Generation of Lead Sulfate Particles in Lead-acid Battery using Ion-exchangeable Glass Mat as Separator. Journal of the Society of Powder Technology, Japan, 2020, 57, 144-149.	0.1	1
100	Development of a Novel Supersaturation Monitoring System in Continuous Crystallization of KAl(SO) ₄ ·12H ₂ O. Journal of Chemical Engineering and Processing: Process Intensification, 2019, 48, 1270-1273.	1.5	1
101	Clarification of Impurity Colouring and Adsorption Mechanism for KDP Crystal Growth by Computational Chemistry. Journal of Computer Chemistry Japan, 2008, 7, 1-8.	0.1	0
102	Separation of fatty acids from binary melts using physical vapour deposition (PVD). Journal of Chemical Technology and Biotechnology, 2009, 84, 316-319.	3.2	0
103	Formation of fine crystals of potassium chloride dissolved in aqueous ethanol solution by spray evaporation. Chemical Engineering and Processing: Process Intensification, 2009, 48, 1270-1273.	3.6	0
104	Prediction of Attrited and Fragmented Crystal Size by Micro-hardness Parameters in Suspension-crystallization Processes. Journal of the Society of Powder Technology, Japan, 2009, 46, 750-755.	0.1	0
105	Upgrading trap grease to an alternative to fossil fuel and its cost and GHG emissions. , 2011, , .		0
106	Effect of polymerization and preheating processes on poly(ethylene terephthalate) depolymerization. Journal of Applied Polymer Science, 2012, 125, 1161-1165.	2.6	0
107	Molecular Dynamics Simulation on Stability of Vapor Nanobubbles. Japanese Journal of Multiphase Flow, 2018, 32, 43-48.	0.3	0
108	Recovery of Phosphorus from Waste Solution of Electroless Nickel-Phosphorus Plating. MATEC Web of Conferences, 2021, 333, 11010.	0.2	0

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109	High-Pressure crystallization of binary unsaturated fatty acids in cylindrical cell. Journal of Crystal Growth, 2021, 576, 126380.	1.5	0
110	Crystallizing Concentration of the Diatom <i>Chaetoceros gracilis</i>. Kagaku Kogaku Ronbunshu, 2018, 44, 18-22.	0.3	0