Takayuki Hirai

List of Publications by Year
in descending order

134	9,089	46984 47	42364 92
papers	citations	h-index	g-index

138	138	138	8278
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photocatalytic Conversion of Nitrogen to Ammonia with Water on Surface Oxygen Vacancies of Titanium Dioxide. Journal of the American Chemical Society, 2017, 139, 10929-10936.	6.6	721
2	Highly Selective Production of Hydrogen Peroxide on Graphitic Carbon Nitride (g-C₃N₄) Photocatalyst Activated by Visible Light. ACS Catalysis, 2014, 4, 774-780.	5.5	580
3	Sunlightâ€Driven Hydrogen Peroxide Production from Water and Molecular Oxygen by Metalâ€Free Photocatalysts. Angewandte Chemie - International Edition, 2014, 53, 13454-13459.	7.2	467
4	Resorcinolâ€“formaldehyde resins as metal-free semiconductor photocatalysts for solar-to-hydrogen peroxide energy conversion. Nature Materials, 2019, 18, 985-993.	13.3	429
5	Carbon Nitrideâ€–Aromatic Diimideâ€–Graphene Nanohybrids: Metal-Free Photocatalysts for Solar-to-Hydrogen Peroxide Energy Conversion with 0.2% Efficiency. Journal of the American Chemical Society, 2016, 138, 10019-10025.	6.6	406
6	Photocatalytic H₂O₂ Production from Ethanol/O₂ System Using TiO₂ Loaded with Auâ€“Ag Bimetallic Alloy Nanoparticles. ACS Catalysis, 2012, 2, 599-603.	5.5	361
7	Selective organic transformations on titanium oxide-based photocatalysts. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2008, 9, 157-170.	5.6	315
8	Effects of Surface Defects on Photocatalytic H₂O₂ Production by Mesoporous Graphitic Carbon Nitride under Visible Light Irradiation. ACS Catalysis, 2015, 5, 3058-3066.	5.5	289
9	Graphitic Carbon Nitride Doped with Biphenyl Diimide: Efficient Photocatalyst for Hydrogen Peroxide Production from Water and Molecular Oxygen by Sunlight. ACS Catalysis, 2016, 6, 7021-7029.	5.5	282
10	Au Nanoparticles Supported on BiVO₄: Effective Inorganic Photocatalysts for H₂O₂ Production from Water and O₂ under Visible Light. ACS Catalysis, 2016, 6, 4976-4982.	5.5	272
11	Supported Auâ€“Cu Bimetallic Alloy Nanoparticles: An Aerobic Oxidation Catalyst with Regenerable Activity by Visibleâ€Light Irradiation. Angewandte Chemie - International Edition, 2013, 52, 5295-5299.	7.2	176
12	Platinum nanoparticles strongly associated with graphitic carbon nitride as efficient co-catalysts for photocatalytic hydrogen evolution under visible light. Chemical Communications, 2014, 50, 15255-15258.	2.2	168
13	Selective Hydrogen Peroxide Formation by Titanium Dioxide Photocatalysis with Benzylic Alcohols and Molecular Oxygen in Water. ACS Catalysis, 2013, 3, 2222-2227.	5.5	157
14	Selective Nitrate-to-Ammonia Transformation on Surface Defects of Titanium Dioxide Photocatalysts. ACS Catalysis, 2017, 7, 3713-3720.	5.5	150
15	Photocatalytic Dinitrogen Fixation with Water on Bismuth Oxychloride in Chloride Solutions for Solar-to-Chemical Energy Conversion. Journal of the American Chemical Society, 2020, 142, 7574-7583.	6.6	140
16	Hot-Electron-Induced Highly Efficient O₂ Activation by Pt Nanoparticles Supported on Ta₂O₅ Driven by Visible Light. Journal of the American Chemical Society, 2015, 137, 9324-9332.	6.6	139
17	Size-Selective Incorporation of CdS Nanoparticles into Mesoporous Silica. Journal of Physical Chemistry B, 1999, 103, 4228-4230.	1.2	135
18	Highly Efficient and Selective Hydrogenation of Nitroaromatics on Photoactivated Rutile Titanium Dioxide. ACS Catalysis, 2012, 2, 2475-2481.	5.5	131

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19	Nitrogen Fixation with Water on Carbon-Nitride-Based Metal-Free Photocatalysts with 0.1% Solar-to-Ammonia Energy Conversion Efficiency. ACS Applied Energy Materials, 2018, 1, 4169-4177.	2.5	103
20	Biomimetic Synthesis of Calcium Carbonate Particles in a Pseudovesicular Double Emulsion. Langmuir, 1997, 13, 6650-6653.	1.6	102
21	Hydrogen Peroxide Production on a Carbon Nitrideâ€“Boron Nitrideâ€Reduced Graphene Oxide Hybrid Photocatalyst under Visible Light. ChemCatChem, 2018, 10, 2070-2077.	1.8	97
22	Polythiophene-Doped Resorcinolâ€“Formaldehyde Resin Photocatalysts for Solar-to-Hydrogen Peroxide Energy Conversion. Journal of the American Chemical Society, 2021, 143, 12590-12599.	6.6	96
23	Preparation of Y2O3:Yb,Er Infrared-to-Visible Conversion Phosphor Fine Particles Using an Emulsion Liquid Membrane System. Chemistry of Materials, 2002, 14, 3576-3583.	3.2	94
24	Vanadosilicate Molecular Sieve as a Catalyst for Oxidative Desulfurization of Light Oil. Industrial & Engineering Chemistry Research, 2003, 42, 6034-6039.	1.8	92
25	Mellitic Triimide-Doped Carbon Nitride as Sunlight-Driven Photocatalysts for Hydrogen Peroxide Production. ACS Sustainable Chemistry and Engineering, 2017, 5, 6478-6485.	3.2	92
26	Titanium Dioxide/Reduced Graphene Oxide Hybrid Photocatalysts for Efficient and Selective Partial Oxidation of Cyclohexane. ACS Catalysis, 2017, 7, 293-300.	5.5	91
27	Separation and Recovery of Gallium and Indium from Simulated Zinc Refinery Residue by Liquidâ^'Liquid Extraction. Industrial & Engineering Chemistry Research, 1999, 38, 1032-1039.	1.8	84
28	Preparation of Gd2O3:Yb,Er and Gd2O2S:Yb,Er infrared-to-visible conversion phosphor ultrafine particles using an emulsion liquid membrane system. Journal of Colloid and Interface Science, 2004, 269, 103-108.	5.0	84
29	Visible light-induced partial oxidation of cyclohexane on WO3 loaded with Ptnanoparticles. Catalysis Science and Technology, 2012, 2, 400-405.	2.1	84
30	Preparation of Semiconductor Nanoparticleâ^'Polymer Composites by Direct Reverse Micelle Polymerization Using Polymerizable Surfactants. Journal of Physical Chemistry B, 2000, 104, 8962-8966.	1.2	81
31	Lightâ€Triggered Selfâ€Assembly of Gold Nanoparticles Based on Photoisomerization of Spirothiopyran. Angewandte Chemie - International Edition, 2013, 52, 8304-8308.	7.2	80
32	Preparation of Metal Sulfide Composite Ultrafine Particles in Reverse Micellar Systems and Their Photocatalytic Property.. Journal of Chemical Engineering of Japan, 1994, 27, 590-597.	0.3	79
33	Coumarinâ€“Spiropyran Dyad with a Hydrogenated Pyran Moiety for Rapid, Selective, and Sensitive Fluorometric Detection of Cyanide Anion. Analytical Chemistry, 2016, 88, 6805-6811.	3.2	74
34	Selective Photocatalytic Oxidation of Aniline to Nitrosobenzene by Pt Nanoparticles Supported on TiO₂ under Visible Light Irradiation. ACS Catalysis, 2014, 4, 2418-2425.	5.5	69
35	Preparation of Gd2O3 : Eu3+ and Gd2O2S : Eu3+ Phosphor Fine Particles Using an Emulsion Liquid Membrane System. Journal of Colloid and Interface Science, 2002, 253, 62-69.	5.0	68
36	Review of Advanced Liquidâ^'Liquid Extraction Systems for the Separation of Metal Ions by a Combination of Conversion of the Metal Species with Chemical Reaction. Industrial & Engineering Chemistry Research, 2001, 40, 3085-3091.	1.8	67

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37	Rutile Crystallites Isolated from Degussa (Evonik) P25 TiO₂: Highly Efficient Photocatalyst for Chemoselective Hydrogenation of Nitroaromatics. ACS Catalysis, 2013, 3, 2318-2326.	5.5	65
38	Photocatalytic hydrogen peroxide splitting on metal-free powders assisted by phosphoric acid as a stabilizer. Nature Communications, 2020, 11, 3386.	5.8	65
39	Desulfurization of Vacuum Gas Oil Based on Chemical Oxidation Followed by Liquidâ^'Liquid Extraction. Energy & Fuels, 2004, 18, 37-40.	2.5	62
40	The Preparation of Spherical Calcium Phosphate Fine Particles Using an Emulsion Liquid Membrane System. Langmuir, 2000, 16, 955-960.	1.6	61
41	The preparation of rare earth phosphate fine particles in an emulsion liquid membrane systemElectronic supplementary information (ESI) available: SEM images of phosphate particles prepared in the homogeneous system, and SEM images of La phosphate particles prepared via the ELM system, following calcination for 2 h at 573 and 1373 K. See http://www.rsc.org/suppdata/jm/b1/b105743j/. Journal of Materials Chemistry, 2002, 12, 1053-1057.	6.7	61
42	Preparation of Y2O3 â^¶ Eu3+ phosphor fine particles using an emulsion liquid membrane system. Journal of Materials Chemistry, 2000, 10, 2306-2310.	6.7	58
43	Separation of Transition Metals Using Inorganic Adsorbents Modified with Chelating Ligands. Industrial & Engineering Chemistry Research, 2002, 41, 5065-5070.	1.8	57
44	Solar-to-hydrogen peroxide energy conversion on resorcinolâ€“formaldehyde resin photocatalysts prepared by acid-catalysed polycondensation. Communications Chemistry, 2020, 3, .	2.0	55
45	Preparation of yttrium oxysulfide phosphor nanoparticles with infrared-to-green and -blue upconversion emission using anÂemulsion liquid membrane system. Journal of Colloid and Interface Science, 2004, 273, 470-477.	5.0	53
46	Effect of Photosensitizer and Hydrogen Peroxide on Desulfurization of Light Oil by Photochemical Reaction and Liquidâ^'Liquid Extraction. Industrial & Engineering Chemistry Research, 1997, 36, 530-533.	1.8	51
47	Incorporation of CdS Nanoparticles Formed in Reverse Micelles into Mesoporous Silica. Journal of Colloid and Interface Science, 2001, 235, 358-364.	5.0	49
48	Stabilization of CdS Nanoparticles Immobilized on Thiol-Modified Polystyrene Particles by Encapsulation with Polythiourethane. Journal of Physical Chemistry B, 2001, 105, 9711-9714.	1.2	47
49	Photocatalytic Dehalogenation of Aromatic Halides on Ta₂O₅-Supported Ptâ€“Pd Bimetallic Alloy Nanoparticles Activated by Visible Light. ACS Catalysis, 2017, 7, 5194-5201.	5.5	47
50	A Deep Desulfurization Process for Light Oil by Photosensitized Oxidation Using a Triplet Photosensitizer and Hydrogen Peroxide in an Oil/Water Two-Phase Liquidâ^'Liquid Extraction System. Industrial & Engineering Chemistry Research, 1999, 38, 1589-1595.	1.8	45
51	Selective Extraction of Y from a Ho/Y/Er Mixture by Liquidâ^'Liquid Extraction in the Presence of a Water-Soluble Complexing Agent. Industrial & Engineering Chemistry Research, 2000, 39, 3907-3911.	1.8	45
52	Preparation of Semiconductor Nanoparticleâ^'Polyurea Composites Using Reverse Micellar Systems via an in Situ Diisocyanate Polymerization. Journal of Physical Chemistry B, 1999, 103, 10120-10126.	1.2	41
53	Photoreductive synthesis of monodispersed Au nanoparticles with citric acid as reductant and surface stabilizing reagent. RSC Advances, 2017, 7, 6187-6192.	1.7	41
54	Preparation of Sr2CeO4:Eu3+,Dy3+White Luminescence Phosphor Particles and Thin Films by Using an Emulsion Liquid Membrane System. Journal of Physical Chemistry B, 2005, 109, 5569-5573.	1.2	40

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55	Identification of Desulfurization Products in the Photochemical Desulfurization Process for Benzothiophenes and Dibenzothiophenes from Light Oil Using an Organic Two-Phase Extraction System. Industrial & Engineering Chemistry Research, 1999, 38, 3300-3309.	1.8	39
56	Preparation of Y2O3:Eu3+ nanoparticles in reverse micellar systems and their photoluminescence properties. Journal of Colloid and Interface Science, 2004, 276, 339-345.	5.0	39
57	Preparation of Cadmium Sulfide Ultrafine Particles Surface-Modified with Thiols in Reverse Micellar Systems and Redispersion in Non-Micellars Solvents.. Journal of Chemical Engineering of Japan, 1997, 30, 86-93.	0.3	37
58	Visible Light-Induced Deep Desulfurization Process for Light Oils by Photochemical Electron-Transfer Oxidation in an Organic Two-Phase Extraction System. Industrial & Engineering Chemistry Research, 1999, 38, 3310-3318.	1.8	36
59	Selective side-chain oxidation of alkyl-substituted aromatics on TiO2 partially coated with WO3 as a photocatalyst. Catalysis Science and Technology, 2013, 3, 2270.	2.1	36
60	Extraction and separation of rare-earth elements by tri-n-octylmethylammonium nitrate and .BETA.-diketone using water-soluble complexing agent.. Journal of Chemical Engineering of Japan, 1991, 24, 731-736.	0.3	33
61	Separation of europium from samarium and gadolinium by combination of electrochemical reduction and solvent extraction.. Journal of Chemical Engineering of Japan, 1992, 25, 644-648.	0.3	31
62	Photocatalytic NH₃ Splitting on TiO₂ Particles Decorated with Ptâ€“Au Bimetallic Alloy Nanoparticles. ACS Applied Nano Materials, 2020, 3, 1612-1620.	2.4	31
63	Dithiol-mediated incorporation of CdS nanoparticles from reverse micellar system into Zn-doped SBA-15 mesoporous silica and their photocatalytic properties. Journal of Colloid and Interface Science, 2003, 268, 394-399.	5.0	30
64	Practical study of liquid-liquid extraction process for separation of rare earth elements with bis(2-ethylhexyl) phosphinic acid.. Journal of Chemical Engineering of Japan, 1997, 30, 1040-1046.	0.3	28
65	Immobilization of CdS nanoparticles formed in reverse micelles onto aluminosilicate supports and their photocatalytic properties. Journal of Colloid and Interface Science, 2005, 288, 513-516.	5.0	28
66	Photocatalytic Dinitrogen Reduction with Water on Boron-Doped Carbon Nitride Loaded with Nickel Phosphide Particles. Langmuir, 2020, 36, 734-741.	1.6	27
67	Preparation of Rare-Earth-Metal Oxalate Spherical Particles in Emulsion Liquid Membrane System Using Alkylphosphinic Acid as Cation Carrier. Langmuir, 1998, 14, 6648-6653.	1.6	25
68	Preparation of spherical oxalate particles of rare earths in emulsion liquid membrane system. AICHE Journal, 1998, 44, 197-206.	1.8	24
69	Preparation of ZnO nanoparticles in a reverse micellar system and their photoluminescence properties. Journal of Colloid and Interface Science, 2005, 284, 184-189.	5.0	24
70	Mechanism of formation of silver halide ultrafine particles in reverse micellar systems.. Journal of Chemical Engineering of Japan, 1996, 29, 501-507.	0.3	23
71	Selective photooxidation of chlorophenols with molecularly imprinted polymers containing a photosensitizer. New Journal of Chemistry, 2010, 34, 714.	1.4	23
72	Separation of europium from samarium and gadolinium by combination of photochemical reduction and solvent extraction.. Journal of Chemical Engineering of Japan, 1993, 26, 64-67.	0.3	22

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73	Synthesis of Au Nanoparticles with Benzoic Acid as Reductant and Surface Stabilizer Promoted Solely by UV Light. Langmuir, 2017, 33, 13797-13804.	1.6	22
74	Incorporation of CdS nanoparticles formed in reverse micelles into silica matrices via a solâ€“gel process: preparation of nano-CdS-containing silica colloids and silica glass. Journal of Materials Chemistry, 2000, 10, 2592-2596.	6.7	21
75	A coumarinâ€“dihydroperimidine dye as a fluorescent chemosensor for hypochlorite in 99% water. RSC Advances, 2019, 9, 28636-28641.	1.7	21
76	Mechanism of formation of lead sulfide ultrafine particles in reverse micellar systems.. Journal of Chemical Engineering of Japan, 1995, 28, 468-473.	0.3	20
77	Effects of Thiols on Photocatalytic Properties of Nano-CdS-Polythiourethane Composite Particles.. Journal of Chemical Engineering of Japan, 1998, 31, 1003-1006.	0.3	20
78	A novel methodology towards deep desulfurization of light oil effected by sulfimides formation. Chemical Communications, 2001, , 1256-1257.	2.2	19
79	Offâ€“on fluorometric detection of cyanide anions in an aqueous mixture by an indane-based receptor. New Journal of Chemistry, 2016, 40, 1237-1243.	1.4	19
80	A pyryliumâ€“coumarin dyad as a colorimetric receptor for ratiometric detection of cyanide anions by two absorption bands in the visible region. New Journal of Chemistry, 2016, 40, 195-201.	1.4	19
81	Extraction and separation of molybdenum and vanadium using bis(2-ethylhexyl)monothiophosphoric acid and bis(2-ethylhexyl)phosphoric acid.. Journal of Chemical Engineering of Japan, 1995, 28, 85-90.	0.3	18
82	Photochemical Desulfurization of Light Oils Using Oil/Hydrogen Peroxide Aqueous Solution Extraction System: Application for High Sulfur Content Straight-Run Light Gas Oil and Aromatic Rich Light Cycle Oil.. Journal of Chemical Engineering of Japan, 1999, 32, 158-161.	0.3	18
83	Hydrophobic Crâ€“Si mixed oxides as a catalyst for visible light-induced partial oxidation of cyclohexane. New Journal of Chemistry, 2010, 34, 2841.	1.4	18
84	Separation of Ce from La/Ce/Nd mixture by photooxidation and liquid-liquid extraction.. Journal of Chemical Engineering of Japan, 1996, 29, 731-733.	0.3	17
85	Titanium Oxide-based Photocatalysts for Selective Organic Transformations. Journal of the Japan Petroleum Institute, 2012, 55, 287-298.	0.4	17
86	One-pot synthesis of secondary amines from alcohols and nitroarenes on TiO₂ loaded with Pd nanoparticles under UV irradiation. New Journal of Chemistry, 2015, 39, 2467-2473.	1.4	17
87	Naphthalimideâ€“coumarin conjugate: ratiometric fluorescent receptor for self-calibrating quantification of cyanide anions in cells. RSC Advances, 2017, 7, 32304-32309.	1.7	17
88	Preparation of Y2O3 nanoparticulate thin films using an emulsion liquid membrane system. Journal of Colloid and Interface Science, 2004, 275, 508-513.	5.0	16
89	Photocatalytic secondary amine synthesis from azobenzenes and alcohols on TiO₂ loaded with Pd nanoparticles. New Journal of Chemistry, 2015, 39, 2856-2860.	1.4	16
90	Separation and purification of vanadium and molybdenum by solvent extraction followed by reductive stripping.. Journal of Chemical Engineering of Japan, 1990, 23, 208-213.	0.3	15

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91	Preparation of nano-CdSâ€“polyurethane composites via in situ polymerization in reverse micellar systems. Journal of Materials Chemistry, 2000, 10, 2234-2235.	6.7	15
92	Photochemical Production of Biphenyls from Oxidized Sulfur Compounds Obtained by Oxidative Desulfurization of Light Oils. Energy & Fuels, 2003, 17, 95-100.	2.5	15
93	Acidic Phosphinates with Different Alkyl Groups as Extractants for Rare Earths.. Journal of Chemical Engineering of Japan, 1996, 29, 1041-1044.	0.3	14
94	Fluorometric Detection of pH and Metal Cations by 1,4,7,10-Tetraazacyclododecane (Cyclen) Bearing Two Anthrylmethyl Groups. Industrial & Engineering Chemistry Research, 2005, 44, 847-851.	1.8	14
95	Photoreductive Stripping of Vanadium in Solvent Extraction Process for Separation of Vanadium and Molybdenum.. Journal of Chemical Engineering of Japan, 1993, 26, 416-421.	0.3	13
96	Desulfurization Process for Light Oil by Photochemical Reaction and Liquid-Liquid Extraction: Removal of Benzothiophenes and Alkyl Sulfides.. Journal of Chemical Engineering of Japan, 1997, 30, 173-175.	0.3	13
97	A Novel Desulfurization Process for Fuel Oils Based on the Formation and Subsequent Precipitation ofS-Alkylsulfonium Salts. 5. Denitrogenation Reactivity of Basic and Neutral Nitrogen Compounds. Industrial & Engineering Chemistry Research, 2001, 40, 4919-4924.	1.8	13
98	Preparation and Photocatalytic Reactions of Titanium Dioxide Ultrafine Particles in Reverse Micellar Systems.. Journal of Chemical Engineering of Japan, 1997, 30, 137-145.	0.3	12
99	A Novel Desulfurization Process for Fuel Oils Based on the Formation and Subsequent Precipitation of S-Alkylsulfonium Salts. 4. Desulfurization and Simultaneous Denitrogenation of Vacuum Gas Oil. Industrial & Engineering Chemistry Research, 2001, 40, 3398-3405.	1.8	12
100	Photocatalytic hydrodenitrogenation of aromatic cyanides on TiO2 loaded with Pd nanoparticles. Catalysis Science and Technology, 2013, 3, 1718.	2.1	12
101	Spiropyranâ€“cholesterol conjugate as a photoresponsive organogelator. New Journal of Chemistry, 2013, 37, 2642.	1.4	12
102	A Naphthalimideâ€“Sulfonylhydrazine Conjugate as a Fluorescent Chemodosimeter for Hypochlorite. Chemosensors, 2020, 8, 123.	1.8	12
103	Preparation of Copper Oxalate Fine Particles Using Emulsion Liquid Membrane System.. Journal of Chemical Engineering of Japan, 1996, 29, 842-850.	0.3	11
104	Preparation of Fe Oxide and Composite Ti-Fe Oxide Ultrafine Particles in Reverse Micellar Systems.. Journal of Chemical Engineering of Japan, 1997, 30, 938-943.	0.3	11
105	Dithiol-Mediated Immobilization of CdS Nanoparticles from Reverse Micellar System onto Zn-Doped Silica Particles and Their High Photocatalytic Activity. Journal of Colloid and Interface Science, 2002, 252, 89-92.	5.0	11
106	Immobilization of RuS₂Nanoparticles Prepared in Reverse Micellar System onto Thiol-Modified Polystyrene Particles and their Photocatalytic Properties. Journal of Nanoparticle Research, 2003, 5, 61-67.	0.8	10
107	Preparation of Rare Earth Oxalate Ultrafine Particles in Emulsion Liquid Membrane System Using Carboxylic Acid as Cation Carrier.. Journal of Chemical Engineering of Japan, 1998, 31, 474-477.	0.3	10
108	Separation of Rare Metals by Solvent Extraction Employing Reductive Stripping Technique. Mineral Processing and Extractive Metallurgy Review, 1997, 17, 81-107.	2.6	9

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109	Electro-reductive stripping of vanadium in solvent extraction process for separation of vanadium and molybdenum.. Journal of Chemical Engineering of Japan, 1991, 24, 124-125.	0.3	8
110	Quantitative Study on Thiophenol Modification and Redispersion Property of Cadmium Sulfide Ultrafine Particles Prepared in Reverse Micellar Systems.. Journal of Chemical Engineering of Japan, 1998, 31, 142-146.	0.3	8
111	Mechanism of extraction of cobalt from hydrochloric acid by tri-n-octylmethylammonium chloride.. Journal of Chemical Engineering of Japan, 1991, 24, 58-62.	0.3	7
112	Mechanism of Photoreductive Extraction of Vanadium in a Liquidâ^'Liquid Extraction System Using Bis(2-ethylhexyl)phosphoric Acid. Industrial & Engineering Chemistry Research, 2000, 39, 3018-3023.	1.8	7
113	Thermodynamic Properties of Tetra-n-butylphosphonium Dicarboxylate Semiclathrate Hydrates. Journal of Chemical & Engineering Data, 2022, 67, 67-73.	1.0	7
114	The effect of formic acid on photoreductive stripping of vanadium in liquid-liquid extraction process of vanadium and molybdenum.. Journal of Chemical Engineering of Japan, 1995, 28, 486-488.	0.3	6
115	An antimalarial drug, tafenoquine, as a fluorescent receptor for ratiometric detection of hypochlorite. RSC Advances, 2017, 7, 30453-30458.	1.7	6
116	Equilibrium Phase Relations and Dissociation Enthalpies of Tri-n-butylalkenylphosphonium Bromide Semiclathrate Hydrates. Journal of Chemical & Engineering Data, 2022, 67, 1415-1420.	1.0	6
117	Photoreductive stripping of vanadium using 2-propanol as radical scavenger in liquid-liquid extraction process of vanadium and molybdenum.. Journal of Chemical Engineering of Japan, 1997, 30, 268-273.	0.3	5
118	Heterogeneous Fluorometric Detection of pH and Metal Cations by Amphiphilic Zeolite Modified with Anthracene-Substituted Azamacrocycle. Industrial & Engineering Chemistry Research, 2004, 43, 6064-6069.	1.8	5
119	Photocatalytic Dinitrogen Fixation with Water on High-Phosphorus-Doped Carbon Nitride with Surface Nitrogen Vacancies. Langmuir, 2022, 38, 7137-7145.	1.6	5
120	Extraction on vanadium(V) from hydrochloric acid by tri-n-octylmethylammonium chloride.. Journal of Chemical Engineering of Japan, 1991, 24, 301-305.	0.3	4
121	Photocatalytic Hydrogenation of Nitroaromatics to Anilines on Silica-Supported Iron Oxides with Hydrazine Monohydrate as a Reductant. Journal of Chemical Engineering of Japan, 2015, 48, 141-146.	0.3	4
122	Spontaneous Isomerization of a Hydroxynaphthalene-Containing Spiropyran in Polar Solvents Enhanced by Hydrogen Bonding Interactions. ACS Omega, 2021, 6, 35619-35628.	1.6	4
123	Te Recovery of Phosphorus Value from Incineration Ashes of Sewage Sludge Using Solvent Extraction.. Kagaku Kogaku Ronbunshu, 1998, 24, 273-278.	0.1	3
124	Desulfurization Process for Light Oil Based on Chemical Adsorption of Sulfur Compounds on Polymer-Supported Imidation Agent.. Journal of Chemical Engineering of Japan, 2003, 36, 1528-1531.	0.3	3
125	Amino-substituted spirothiopyran as an initiator for self-assembly of gold nanoparticles. RSC Advances, 2015, 5, 77572-77580.	1.7	2
126	S-Methylsulfonium Salts Obtained by Desulfurization of Vacuum Gas Oil and Catalytic-Cracked Gasoline as Thermal Latent Polymerization Initiator.. Journal of Chemical Engineering of Japan, 2003, 36, 343-347.	0.3	2

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127	Preparation of ZnS:Mn Nanoparticles in Reverse Micellar Systems and Their Photoluminescent Properties. Journal of Chemical Engineering of Japan, 2004, 37, 675-679.	0.3	2
128	Synergistic Extraction of Rare-Earth Elements by Alkyl Phosphoric Acid and Tri-n-Octylmethylammonium Nitrate.. Journal of Chemical Engineering of Japan, 1992, 25, 218-220.	0.3	1
129	High-performance separation process of Eu from a Sm/Eu/Gd mixture by liquid-liquid extraction combined with a photoredox reaction.. Bunseki Kagaku, 1993, 42, 681-686.	0.1	1
130	Recent Research Development in Solvent Extraction. Design of Liquid-Liquid Extraction Process for Separation of Metal Ions.. Kagaku Kogaku Ronbunshu, 2000, 26, 497-505.	0.1	1
131	Hydrogen peroxide splitting on Nafion-coated graphene quantum dots/carbon nitride photocatalysts. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 430, 113949.	2.0	1
132	Polymer-Supported Sulfonium Salts Obtained by Desulfurization of Light Oil as Novel Phase Transfer Catalyst.. Journal of Chemical Engineering of Japan, 2003, 36, 220-224.	0.3	0
133	æœ‰æ©Ÿâ”€ç„¡æ©Ÿãƒã‚¤ãƒ–リッド光触媒による水からの過酸化水素製造. Hosokawa Powder Technology Foundation A	0.0	0
134	Powdered Photocatalysts for Sunlight-Driven Hydrogen Peroxide Production from Water and Molecular Oxygen. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2017, 25, 165-167.	0.0	0