

Takayuki Hirai

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Photocatalytic Conversion of Nitrogen to Ammonia with Water on Surface Oxygen Vacancies of Titanium Dioxide. <i>Journal of the American Chemical Society</i> , 2017, 139, 10929-10936.	6.6	721
2	Highly Selective Production of Hydrogen Peroxide on Graphitic Carbon Nitride (g-C ₃ N ₄) Photocatalyst Activated by Visible Light. <i>ACS Catalysis</i> , 2014, 4, 774-780.	5.5	580
3	Sunlight-Driven Hydrogen Peroxide Production from Water and Molecular Oxygen by Metal-Free Photocatalysts. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13454-13459.	7.2	467
4	Resorcinol-formaldehyde resins as metal-free semiconductor photocatalysts for solar-to-hydrogen peroxide energy conversion. <i>Nature Materials</i> , 2019, 18, 985-993.	13.3	429
5	Carbon Nitride-Aromatic Diimide-Graphene Nanohybrids: Metal-Free Photocatalysts for Solar-to-Hydrogen Peroxide Energy Conversion with 0.2% Efficiency. <i>Journal of the American Chemical Society</i> , 2016, 138, 10019-10025.	6.6	406
6	Photocatalytic H ₂ O ₂ Production from Ethanol/O ₂ System Using TiO ₂ Loaded with Au-Ag Bimetallic Alloy Nanoparticles. <i>ACS Catalysis</i> , 2012, 2, 599-603.	5.5	361
7	Selective organic transformations on titanium oxide-based photocatalysts. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2008, 9, 157-170.	5.6	315
8	Effects of Surface Defects on Photocatalytic H ₂ O ₂ Production by Mesoporous Graphitic Carbon Nitride under Visible Light Irradiation. <i>ACS Catalysis</i> , 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. <i>ACS Catalysis</i> , 2016, 6, 7021-7029.	5.5	282
10	Au Nanoparticles Supported on BiVO ₄ : Effective Inorganic Photocatalysts for H ₂ O ₂ Production from Water and O ₂ under Visible Light. <i>ACS Catalysis</i> , 2016, 6, 4976-4982.	5.5	272
11	Supported Au-Cu Bimetallic Alloy Nanoparticles: An Aerobic Oxidation Catalyst with Regenerable Activity by Visible Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 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. <i>Chemical Communications</i> , 2014, 50, 15255-15258.	2.2	168
13	Selective Hydrogen Peroxide Formation by Titanium Dioxide Photocatalysis with Benzylic Alcohols and Molecular Oxygen in Water. <i>ACS Catalysis</i> , 2013, 3, 2222-2227.	5.5	157
14	Selective Nitrate-to-Ammonia Transformation on Surface Defects of Titanium Dioxide Photocatalysts. <i>ACS Catalysis</i> , 2017, 7, 3713-3720.	5.5	150
15	Photocatalytic Dinitrogen Fixation with Water on Bismuth Oxichloride in Chloride Solutions for Solar-to-Chemical Energy Conversion. <i>Journal of the American Chemical Society</i> , 2020, 142, 7574-7583.	6.6	140
16	Hot-Electron-Induced Highly Efficient O ₂ Activation by Pt Nanoparticles Supported on Ta ₂ O ₅ Driven by Visible Light. <i>Journal of the American Chemical Society</i> , 2015, 137, 9324-9332.	6.6	139
17	Size-Selective Incorporation of CdS Nanoparticles into Mesoporous Silica. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4228-4230.	1.2	135
18	Highly Efficient and Selective Hydrogenation of Nitroaromatics on Photoactivated Rutile Titanium Dioxide. <i>ACS Catalysis</i> , 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. <i>ACS Applied Energy Materials</i> , 2018, 1, 4169-4177.	2.5	103
20	Biomimetic Synthesis of Calcium Carbonate Particles in a Pseudovesicular Double Emulsion. <i>Langmuir</i> , 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. <i>ChemCatChem</i> , 2018, 10, 2070-2077.	1.8	97
22	Polythiophene-Doped Resorcinolâ€“Formaldehyde Resin Photocatalysts for Solar-to-Hydrogen Peroxide Energy Conversion. <i>Journal of the American Chemical Society</i> , 2021, 143, 12590-12599.	6.6	96
23	Preparation of Y ₂ O ₃ :Yb,Er Infrared-to-Visible Conversion Phosphor Fine Particles Using an Emulsion Liquid Membrane System. <i>Chemistry of Materials</i> , 2002, 14, 3576-3583.	3.2	94
24	Vanadosilicate Molecular Sieve as a Catalyst for Oxidative Desulfurization of Light Oil. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 6034-6039.	1.8	92
25	Mellitic Triimide-Doped Carbon Nitride as Sunlight-Driven Photocatalysts for Hydrogen Peroxide Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6478-6485.	3.2	92
26	Titanium Dioxide/Reduced Graphene Oxide Hybrid Photocatalysts for Efficient and Selective Partial Oxidation of Cyclohexane. <i>ACS Catalysis</i> , 2017, 7, 293-300.	5.5	91
27	Separation and Recovery of Gallium and Indium from Simulated Zinc Refinery Residue by Liquidâˆ“Liquid Extraction. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 1032-1039.	1.8	84
28	Preparation of Gd ₂ O ₃ :Yb,Er and Gd ₂ O ₂ S:Yb,Er infrared-to-visible conversion phosphor ultrafine particles using an emulsion liquid membrane system. <i>Journal of Colloid and Interface Science</i> , 2004, 269, 103-108.	5.0	84
29	Visible light-induced partial oxidation of cyclohexane on WO ₃ loaded with Pt nanoparticles. <i>Catalysis Science and Technology</i> , 2012, 2, 400-405.	2.1	84
30	Preparation of Semiconductor Nanoparticleâˆ“Polymer Composites by Direct Reverse Micelle Polymerization Using Polymerizable Surfactants. <i>Journal of Physical Chemistry B</i> , 2000, 104, 8962-8966.	1.2	81
31	Lightâ€“Triggered Selfâ€“Assembly of Gold Nanoparticles Based on Photoisomerization of Spirothiopyran. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8304-8308.	7.2	80
32	Preparation of Metal Sulfide Composite Ultrafine Particles in Reverse Micellar Systems and Their Photocatalytic Property.. <i>Journal of Chemical Engineering of Japan</i> , 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. <i>Analytical Chemistry</i> , 2016, 88, 6805-6811.	3.2	74
34	Selective Photocatalytic Oxidation of Aniline to Nitrosobenzene by Pt Nanoparticles Supported on TiO ₂ under Visible Light Irradiation. <i>ACS Catalysis</i> , 2014, 4, 2418-2425.	5.5	69
35	Preparation of Gd ₂ O ₃ : Eu ³⁺ and Gd ₂ O ₂ S : Eu ³⁺ Phosphor Fine Particles Using an Emulsion Liquid Membrane System. <i>Journal of Colloid and Interface Science</i> , 2002, 253, 62-69.	5.0	68
36	Review of Advanced Liquidâˆ“Liquid Extraction Systems for the Separation of Metal Ions by a Combination of Conversion of the Metal Species with Chemical Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 3085-3091.	1.8	67

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37	Rutile Crystallites Isolated from Degussa (Evonik) P25 TiO ₂ : Highly Efficient Photocatalyst for Chemoselective Hydrogenation of Nitroaromatics. <i>ACS Catalysis</i> , 2013, 3, 2318-2326.	5.5	65
38	Photocatalytic hydrogen peroxide splitting on metal-free powders assisted by phosphoric acid as a stabilizer. <i>Nature Communications</i> , 2020, 11, 3386.	5.8	65
39	Desulfurization of Vacuum Gas Oil Based on Chemical Oxidation Followed by Liquid-Liquid Extraction. <i>Energy & Fuels</i> , 2004, 18, 37-40.	2.5	62
40	The Preparation of Spherical Calcium Phosphate Fine Particles Using an Emulsion Liquid Membrane System. <i>Langmuir</i> , 2000, 16, 955-960.	1.6	61
41	The preparation of rare earth phosphate fine particles in an emulsion liquid membrane system Electronic 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/ . <i>Journal of Materials Chemistry</i> , 2002, 12, 1053-1057.	6.7	61
42	Preparation of Y ₂ O ₃ · Eu ³⁺ phosphor fine particles using an emulsion liquid membrane system. <i>Journal of Materials Chemistry</i> , 2000, 10, 2306-2310.	6.7	58
43	Separation of Transition Metals Using Inorganic Adsorbents Modified with Chelating Ligands. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 5065-5070.	1.8	57
44	Solar-to-hydrogen peroxide energy conversion on resorcinol-formaldehyde resin photocatalysts prepared by acid-catalysed polycondensation. <i>Communications Chemistry</i> , 2020, 3, .	2.0	55
45	Preparation of yttrium oxysulfide phosphor nanoparticles with infrared-to-green and -blue upconversion emission using an emulsion liquid membrane system. <i>Journal of Colloid and Interface Science</i> , 2004, 273, 470-477.	5.0	53
46	Effect of Photosensitizer and Hydrogen Peroxide on Desulfurization of Light Oil by Photochemical Reaction and Liquid-Liquid Extraction. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 530-533.	1.8	51
47	Incorporation of CdS Nanoparticles Formed in Reverse Micelles into Mesoporous Silica. <i>Journal of Colloid and Interface Science</i> , 2001, 235, 358-364.	5.0	49
48	Stabilization of CdS Nanoparticles Immobilized on Thiol-Modified Polystyrene Particles by Encapsulation with Polythiourethane. <i>Journal of Physical Chemistry B</i> , 2001, 105, 9711-9714.	1.2	47
49	Photocatalytic Dehalogenation of Aromatic Halides on Ta ₂ O ₅ -Supported Pt-Pd Bimetallic Alloy Nanoparticles Activated by Visible Light. <i>ACS Catalysis</i> , 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 Liquid-Liquid Extraction System. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 1589-1595.	1.8	45
51	Selective Extraction of Y from a Ho/Y/Er Mixture by Liquid-Liquid Extraction in the Presence of a Water-Soluble Complexing Agent. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 3907-3911.	1.8	45
52	Preparation of Semiconductor Nanoparticle-Polyurea Composites Using Reverse Micellar Systems via an in Situ Diisocyanate Polymerization. <i>Journal of Physical Chemistry B</i> , 1999, 103, 10120-10126.	1.2	41
53	Photoreductive synthesis of monodispersed Au nanoparticles with citric acid as reductant and surface stabilizing reagent. <i>RSC Advances</i> , 2017, 7, 6187-6192.	1.7	41
54	Preparation of Sr ₂ CeO ₄ :Eu ³⁺ , Dy ³⁺ White Luminescence Phosphor Particles and Thin Films by Using an Emulsion Liquid Membrane System. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5569-5573.	1.2	40

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55	Identification of Desulfurization Products in the Photochemical Desulfurization Process for Benzothiofenenes and Dibenzothiofenenes from Light Oil Using an Organic Two-Phase Extraction System. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 3300-3309.	1.8	39
56	Preparation of Y ₂ O ₃ :Eu ³⁺ nanoparticles in reverse micellar systems and their photoluminescence properties. <i>Journal of Colloid and Interface Science</i> , 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-Micellar Solvents.. <i>Journal of Chemical Engineering of Japan</i> , 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. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 3310-3318.	1.8	36
59	Selective side-chain oxidation of alkyl-substituted aromatics on TiO ₂ partially coated with WO ₃ as a photocatalyst. <i>Catalysis Science and Technology</i> , 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.. <i>Journal of Chemical Engineering of Japan</i> , 1991, 24, 731-736.	0.3	33
61	Separation of europium from samarium and gadolinium by combination of electrochemical reduction and solvent extraction.. <i>Journal of Chemical Engineering of Japan</i> , 1992, 25, 644-648.	0.3	31
62	Photocatalytic NH ₃ Splitting on TiO ₂ Particles Decorated with Pt-Au Bimetallic Alloy Nanoparticles. <i>ACS Applied Nano Materials</i> , 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. <i>Journal of Colloid and Interface Science</i> , 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.. <i>Journal of Chemical Engineering of Japan</i> , 1997, 30, 1040-1046.	0.3	28
65	Immobilization of CdS nanoparticles formed in reverse micelles onto aluminosilicate supports and their photocatalytic properties. <i>Journal of Colloid and Interface Science</i> , 2005, 288, 513-516.	5.0	28
66	Photocatalytic Dinitrogen Reduction with Water on Boron-Doped Carbon Nitride Loaded with Nickel Phosphide Particles. <i>Langmuir</i> , 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. <i>Langmuir</i> , 1998, 14, 6648-6653.	1.6	25
68	Preparation of spherical oxalate particles of rare earths in emulsion liquid membrane system. <i>AIChE Journal</i> , 1998, 44, 197-206.	1.8	24
69	Preparation of ZnO nanoparticles in a reverse micellar system and their photoluminescence properties. <i>Journal of Colloid and Interface Science</i> , 2005, 284, 184-189.	5.0	24
70	Mechanism of formation of silver halide ultrafine particles in reverse micellar systems.. <i>Journal of Chemical Engineering of Japan</i> , 1996, 29, 501-507.	0.3	23
71	Selective photooxidation of chlorophenols with molecularly imprinted polymers containing a photosensitizer. <i>New Journal of Chemistry</i> , 2010, 34, 714.	1.4	23
72	Separation of europium from samarium and gadolinium by combination of photochemical reduction and solvent extraction.. <i>Journal of Chemical Engineering of Japan</i> , 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. <i>Langmuir</i> , 2017, 33, 13797-13804.	1.6	22
74	Incorporation of CdS nanoparticles formed in reverse micelles into silica matrices via a sol-gel process: preparation of nano-CdS-containing silica colloids and silica glass. <i>Journal of Materials Chemistry</i> , 2000, 10, 2592-2596.	6.7	21
75	A coumarin-dihydroperimidine dye as a fluorescent chemosensor for hypochlorite in 99% water. <i>RSC Advances</i> , 2019, 9, 28636-28641.	1.7	21
76	Mechanism of formation of lead sulfide ultrafine particles in reverse micellar systems.. <i>Journal of Chemical Engineering of Japan</i> , 1995, 28, 468-473.	0.3	20
77	Effects of Thiols on Photocatalytic Properties of Nano-CdS-Polythiourethane Composite Particles.. <i>Journal of Chemical Engineering of Japan</i> , 1998, 31, 1003-1006.	0.3	20
78	A novel methodology towards deep desulfurization of light oil effected by sulfimides formation. <i>Chemical Communications</i> , 2001, , 1256-1257.	2.2	19
79	Off-on fluorometric detection of cyanide anions in an aqueous mixture by an indane-based receptor. <i>New Journal of Chemistry</i> , 2016, 40, 1237-1243.	1.4	19
80	A pyrylium-coumarin dyad as a colorimetric receptor for ratiometric detection of cyanide anions by two absorption bands in the visible region. <i>New Journal of Chemistry</i> , 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.. <i>Journal of Chemical Engineering of Japan</i> , 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.. <i>Journal of Chemical Engineering of Japan</i> , 1999, 32, 158-161.	0.3	18
83	Hydrophobic Cr-Si mixed oxides as a catalyst for visible light-induced partial oxidation of cyclohexane. <i>New Journal of Chemistry</i> , 2010, 34, 2841.	1.4	18
84	Separation of Ce from La/Ce/Nd mixture by photooxidation and liquid-liquid extraction.. <i>Journal of Chemical Engineering of Japan</i> , 1996, 29, 731-733.	0.3	17
85	Titanium Oxide-based Photocatalysts for Selective Organic Transformations. <i>Journal of the Japan Petroleum Institute</i> , 2012, 55, 287-298.	0.4	17
86	One-pot synthesis of secondary amines from alcohols and nitroarenes on TiO ₂ loaded with Pd nanoparticles under UV irradiation. <i>New Journal of Chemistry</i> , 2015, 39, 2467-2473.	1.4	17
87	Naphthalimide-coumarin conjugate: ratiometric fluorescent receptor for self-calibrating quantification of cyanide anions in cells. <i>RSC Advances</i> , 2017, 7, 32304-32309.	1.7	17
88	Preparation of Y ₂ O ₃ nanoparticulate thin films using an emulsion liquid membrane system. <i>Journal of Colloid and Interface Science</i> , 2004, 275, 508-513.	5.0	16
89	Photocatalytic secondary amine synthesis from azobenzenes and alcohols on TiO ₂ loaded with Pd nanoparticles. <i>New Journal of Chemistry</i> , 2015, 39, 2856-2860.	1.4	16
90	Separation and purification of vanadium and molybdenum by solvent extraction followed by reductive stripping.. <i>Journal of Chemical Engineering of Japan</i> , 1990, 23, 208-213.	0.3	15

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91	Preparation of nano-CdS/polyurethane composites via in situ polymerization in reverse micellar systems. <i>Journal of Materials Chemistry</i> , 2000, 10, 2234-2235.	6.7	15
92	Photochemical Production of Biphenyls from Oxidized Sulfur Compounds Obtained by Oxidative Desulfurization of Light Oils. <i>Energy & Fuels</i> , 2003, 17, 95-100.	2.5	15
93	Acidic Phosphinates with Different Alkyl Groups as Extractants for Rare Earths.. <i>Journal of Chemical Engineering of Japan</i> , 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. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 847-851.	1.8	14
95	Photoreductive Stripping of Vanadium in Solvent Extraction Process for Separation of Vanadium and Molybdenum.. <i>Journal of Chemical Engineering of Japan</i> , 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.. <i>Journal of Chemical Engineering of Japan</i> , 1997, 30, 173-175.	0.3	13
97	A Novel Desulfurization Process for Fuel Oils Based on the Formation and Subsequent Precipitation of S-Alkylsulfonium Salts. 5. Denitrogenation Reactivity of Basic and Neutral Nitrogen Compounds. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 4919-4924.	1.8	13
98	Preparation and Photocatalytic Reactions of Titanium Dioxide Ultrafine Particles in Reverse Micellar Systems.. <i>Journal of Chemical Engineering of Japan</i> , 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. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 3398-3405.	1.8	12
100	Photocatalytic hydrodenitrogenation of aromatic cyanides on TiO ₂ loaded with Pd nanoparticles. <i>Catalysis Science and Technology</i> , 2013, 3, 1718.	2.1	12
101	Spiropyran/cholesterol conjugate as a photoresponsive organogelator. <i>New Journal of Chemistry</i> , 2013, 37, 2642.	1.4	12
102	A Naphthalimide/Sulfonylhydrazine Conjugate as a Fluorescent Chemodosimeter for Hypochlorite. <i>Chemosensors</i> , 2020, 8, 123.	1.8	12
103	Preparation of Copper Oxalate Fine Particles Using Emulsion Liquid Membrane System.. <i>Journal of Chemical Engineering of Japan</i> , 1996, 29, 842-850.	0.3	11
104	Preparation of Fe Oxide and Composite Ti-Fe Oxide Ultrafine Particles in Reverse Micellar Systems.. <i>Journal of Chemical Engineering of Japan</i> , 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. <i>Journal of Colloid and Interface Science</i> , 2002, 252, 89-92.	5.0	11
106	Immobilization of RuS ₂ Nanoparticles Prepared in Reverse Micellar System onto Thiol-Modified Polystyrene Particles and their Photocatalytic Properties. <i>Journal of Nanoparticle Research</i> , 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.. <i>Journal of Chemical Engineering of Japan</i> , 1998, 31, 474-477.	0.3	10
108	Separation of Rare Metals by Solvent Extraction Employing Reductive Stripping Technique. <i>Mineral Processing and Extractive Metallurgy Review</i> , 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 Liquid-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 Azamacrocyclic. 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. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 675-679.	0.3	2
128	Synergistic Extraction of Rare-Earth Elements by Alkyl Phosphoric Acid and Tri-n-Octylmethylammonium Nitrate.. <i>Journal of Chemical Engineering of Japan</i> , 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.. <i>Bunseki Kagaku</i> , 1993, 42, 681-686.	0.1	1
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