

# Takayuki Hirai

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/9454080/takayuki-hirai-publications-by-year.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

135  
papers

6,720  
citations

44  
h-index

79  
g-index

138  
ext. papers

7,899  
ext. citations

5.5  
avg, IF

6.13  
L-index

#	Paper	IF	Citations
135	Hydrogen peroxide splitting on Nafion-coated graphene quantum dots/carbon nitride photocatalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2022</b> , 113949	4.7	0
134	Thermodynamic Properties of Tetra-n-butylphosphonium Dicarboxylate Semiclathrate Hydrates. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2022</b> , 67, 67-73	2.8	0
133	Spontaneous Isomerization of a Hydroxynaphthalene-Containing Spiropyran in Polar Solvents Enhanced by Hydrogen Bonding Interactions.. <i>ACS Omega</i> , <b>2021</b> , 6, 35619-35628	3.9	1
132	Polythiophene-Doped Resorcinol-Formaldehyde Resin Photocatalysts for Solar-to-Hydrogen Peroxide Energy Conversion. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12590-12599	16.4	16
131	Photocatalytic hydrogen peroxide splitting on metal-free powders assisted by phosphoric acid as a stabilizer. <i>Nature Communications</i> , <b>2020</b> , 11, 3386	17.4	28
130	Photocatalytic NH <sub>3</sub> Splitting on TiO <sub>2</sub> Particles Decorated with Pt/Au Bimetallic Alloy Nanoparticles. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 1612-1620	5.6	21
129	Photocatalytic Dinitrogen Fixation with Water on Bismuth Oxychloride in Chloride Solutions for Solar-to-Chemical Energy Conversion. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 7574-7583	16.4	80
128	Photocatalytic Dinitrogen Reduction with Water on Boron-Doped Carbon Nitride Loaded with Nickel Phosphide Particles. <i>Langmuir</i> , <b>2020</b> , 36, 734-741	4	18
127	Solar-to-hydrogen peroxide energy conversion on resorcinol-formaldehyde resin photocatalysts prepared by acid-catalysed polycondensation. <i>Communications Chemistry</i> , <b>2020</b> , 3,	6.3	17
126	A Naphthalimide-Sulfonylhydrazine Conjugate as a Fluorescent Chemodosimeter for Hypochlorite. <i>Chemosensors</i> , <b>2020</b> , 8, 123	4	3
125	A coumarin-dihydropyrimidine dye as a fluorescent chemosensor for hypochlorite in 99% water.. <i>RSC Advances</i> , <b>2019</b> , 9, 28636-28641	3.7	14
124	Resorcinol-formaldehyde resins as metal-free semiconductor photocatalysts for solar-to-hydrogen peroxide energy conversion. <i>Nature Materials</i> , <b>2019</b> , 18, 985-993	27	158
123	Hydrogen Peroxide Production on a Carbon Nitride-Boron Nitride-Reduced Graphene Oxide Hybrid Photocatalyst under Visible Light. <i>ChemCatChem</i> , <b>2018</b> , 10, 2070-2077	5.2	53
122	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> , <b>2018</b> , 1, 4169-4177	6.1	65
121	Photoreductive synthesis of monodispersed Au nanoparticles with citric acid as reductant and surface stabilizing reagent. <i>RSC Advances</i> , <b>2017</b> , 7, 6187-6192	3.7	21
120	Selective Nitrate-to-Ammonia Transformation on Surface Defects of Titanium Dioxide Photocatalysts. <i>ACS Catalysis</i> , <b>2017</b> , 7, 3713-3720	13.1	80
119	Titanium Dioxide/Reduced Graphene Oxide Hybrid Photocatalysts for Efficient and Selective Partial Oxidation of Cyclohexane. <i>ACS Catalysis</i> , <b>2017</b> , 7, 293-300	13.1	64

118	An antimalarial drug, tafenoquine, as a fluorescent receptor for ratiometric detection of hypochlorite. <i>RSC Advances</i> , <b>2017</b> , 7, 30453-30458	3.7	2
117	Photocatalytic Conversion of Nitrogen to Ammonia with Water on Surface Oxygen Vacancies of Titanium Dioxide. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 10929-10936	16.4	530
116	Synthesis of Au Nanoparticles with Benzoic Acid as Reductant and Surface Stabilizer Promoted Solely by UV Light. <i>Langmuir</i> , <b>2017</b> , 33, 13797-13804	4	18
115	Naphthalimide-fluorophore conjugate: ratiometric fluorescent receptor for self-calibrating quantification of cyanide anions in cells. <i>RSC Advances</i> , <b>2017</b> , 7, 32304-32309	3.7	15
114	Photocatalytic Dehalogenation of Aromatic Halides on Ta <sub>2</sub> O <sub>5</sub> -Supported Pt/Pd Bimetallic Alloy Nanoparticles Activated by Visible Light. <i>ACS Catalysis</i> , <b>2017</b> , 7, 5194-5201	13.1	38
113	Mellitic Triimide-Doped Carbon Nitride as Sunlight-Driven Photocatalysts for Hydrogen Peroxide Production. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 6478-6485	8.3	58
112	Powdered Photocatalysts for Sunlight-Driven Hydrogen Peroxide Production from Water and Molecular Oxygen. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , <b>2017</b> , 25, 165-167	0	
111	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> , <b>2016</b> , 138, 10019-25	16.4	273
110	Coumarin-Spiropyran Dyad with a Hydrogenated Pyran Moiety for Rapid, Selective, and Sensitive Fluorometric Detection of Cyanide Anion. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 6805-11	7.8	61
109	Au Nanoparticles Supported on BiVO <sub>4</sub> : Effective Inorganic Photocatalysts for H <sub>2</sub> O <sub>2</sub> Production from Water and O <sub>2</sub> under Visible Light. <i>ACS Catalysis</i> , <b>2016</b> , 6, 4976-4982	13.1	156
108	Off-line fluorometric detection of cyanide anions in an aqueous mixture by an indane-based receptor. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 1237-1243	3.6	18
107	A pyrylium-fluorophore 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> , <b>2016</b> , 40, 195-201	3.6	15
106	Graphitic Carbon Nitride Doped with Biphenyl Diimide: Efficient Photocatalyst for Hydrogen Peroxide Production from Water and Molecular Oxygen by Sunlight. <i>ACS Catalysis</i> , <b>2016</b> , 6, 7021-7029	13.1	183
105	Hot-Electron-Induced Highly Efficient O <sub>2</sub> Activation by Pt Nanoparticles Supported on Ta <sub>2</sub> O <sub>5</sub> Driven by Visible Light. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 9324-32	16.4	117
104	Effects of Surface Defects on Photocatalytic H <sub>2</sub> O <sub>2</sub> Production by Mesoporous Graphitic Carbon Nitride under Visible Light Irradiation. <i>ACS Catalysis</i> , <b>2015</b> , 5, 3058-3066	13.1	185
103	Amino-substituted spirothiopyran as an initiator for self-assembly of gold nanoparticles. <i>RSC Advances</i> , <b>2015</b> , 5, 77572-77580	3.7	2
102	One-pot synthesis of secondary amines from alcohols and nitroarenes on TiO <sub>2</sub> loaded with Pd nanoparticles under UV irradiation. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 2467-2473	3.6	13
101	Photocatalytic Hydrogenation of Nitroaromatics to Anilines on Silica-Supported Iron Oxides with Hydrazine Monohydrate as a Reductant. <i>Journal of Chemical Engineering of Japan</i> , <b>2015</b> , 48, 141-146	0.8	3

100	Photocatalytic secondary amine synthesis from azobenzenes and alcohols on TiO <sub>2</sub> loaded with Pd nanoparticles. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 2856-2860	3.6	12
99	Sunlight-driven hydrogen peroxide production from water and molecular oxygen by metal-free photocatalysts. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 13454-9	16.4	320
98	Highly Selective Production of Hydrogen Peroxide on Graphitic Carbon Nitride (g-C <sub>3</sub> N <sub>4</sub> ) Photocatalyst Activated by Visible Light. <i>ACS Catalysis</i> , <b>2014</b> , 4, 774-780	13.1	398
97	Platinum nanoparticles strongly associated with graphitic carbon nitride as efficient co-catalysts for photocatalytic hydrogen evolution under visible light. <i>Chemical Communications</i> , <b>2014</b> , 50, 15255-8	5.8	133
96	Selective Photocatalytic Oxidation of Aniline to Nitrosobenzene by Pt Nanoparticles Supported on TiO <sub>2</sub> under Visible Light Irradiation. <i>ACS Catalysis</i> , <b>2014</b> , 4, 2418-2425	13.1	55
95	Sunlight-Driven Hydrogen Peroxide Production From Water and Molecular Oxygen by Metal-Free Photocatalysts. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 13672-13677	3.6	39
94	Light-Triggered Self-Assembly of Gold Nanoparticles Based on Photoisomerization of Spirothiopyran. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 8462-8466	3.6	14
93	Selective Hydrogen Peroxide Formation by Titanium Dioxide Photocatalysis with Benzylic Alcohols and Molecular Oxygen in Water. <i>ACS Catalysis</i> , <b>2013</b> , 3, 2222-2227	13.1	96
92	Rutile Crystallites Isolated from Degussa (Evonik) P25 TiO <sub>2</sub> : Highly Efficient Photocatalyst for Chemoselective Hydrogenation of Nitroaromatics. <i>ACS Catalysis</i> , <b>2013</b> , 3, 2318-2326	13.1	50
91	Supported Au-Cu bimetallic alloy nanoparticles: an aerobic oxidation catalyst with regenerable activity by visible-light irradiation. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 5295-9	16.4	160
90	Photocatalytic hydrodenitrogenation of aromatic cyanides on TiO <sub>2</sub> loaded with Pd nanoparticles. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 1718	5.5	11
89	Spiropyran-cholesterol conjugate as a photoresponsive organogelator. <i>New Journal of Chemistry</i> , <b>2013</b> , 37, 2642	3.6	9
88	Light-triggered self-assembly of gold nanoparticles based on photoisomerization of spirothiopyran. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 8304-8	16.4	74
87	Supported Au-Cu Bimetallic Alloy Nanoparticles: An Aerobic Oxidation Catalyst with Regenerable Activity by Visible-Light Irradiation. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 5403-5407	3.6	42
86	Selective side-chain oxidation of alkyl-substituted aromatics on TiO <sub>2</sub> partially coated with WO <sub>3</sub> as a photocatalyst. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 2270	5.5	25
85	Highly Efficient and Selective Hydrogenation of Nitroaromatics on Photoactivated Rutile Titanium Dioxide. <i>ACS Catalysis</i> , <b>2012</b> , 2, 2475-2481	13.1	109
84	Visible light-induced partial oxidation of cyclohexane on WO <sub>3</sub> loaded with Pt nanoparticles. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 400-405	5.5	68
83	Photocatalytic H <sub>2</sub> O <sub>2</sub> Production from Ethanol/O <sub>2</sub> System Using TiO <sub>2</sub> Loaded with Au-Ag Bimetallic Alloy Nanoparticles. <i>ACS Catalysis</i> , <b>2012</b> , 2, 599-603	13.1	271

82	Titanium Oxide-based Photocatalysts for Selective Organic Transformations. <i>Journal of the Japan Petroleum Institute</i> , <b>2012</b> , 55, 287-298	1	15
81	Selective photooxidation of chlorophenols with molecularly imprinted polymers containing a photosensitizer. <i>New Journal of Chemistry</i> , <b>2010</b> , 34, 714	3.6	23
80	Hydrophobic CrBi mixed oxides as a catalyst for visible light-induced partial oxidation of cyclohexane. <i>New Journal of Chemistry</i> , <b>2010</b> , 34, 2841	3.6	18
79	Selective organic transformations on titanium oxide-based photocatalysts. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , <b>2008</b> , 9, 157-170	16.4	290
78	??-?????????????????????. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , <b>2007</b> , 15, 134-135	o	
77	Preparation of Sr <sub>2</sub> CeO <sub>4</sub> :Eu <sup>3+</sup> ,Dy <sup>3+</sup> white luminescence phosphor particles and thin films by using an emulsion liquid membrane system. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 5569-73	3.4	38
76	Fluorometric Detection of pH and Metal Cations by 1,4,7,10-Tetraazacyclododecane (Cyclen) Bearing Two Anthrylmethyl Groups. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 847-851	3.9	13
75	Preparation of ZnO nanoparticles in a reverse micellar system and their photoluminescence properties. <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 284, 184-9	9.3	22
74	Immobilization of CdS nanoparticles formed in reverse micelles onto aluminosilicate supports and their photocatalytic properties. <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 288, 513-6	9.3	27
73	Preparation of Y <sub>2</sub> O <sub>3</sub> nanoparticulate thin films using an emulsion liquid membrane system. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 275, 508-13	9.3	16
72	Preparation of Gd <sub>2</sub> O <sub>3</sub> :Yb,Er and Gd <sub>2</sub> O <sub>2</sub> S:Yb,Er infrared-to-visible conversion phosphor ultrafine particles using an emulsion liquid membrane system. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 269, 103-8	9.3	77
71	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> , <b>2004</b> , 273, 470-7	9.3	51
70	Preparation of Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> nanoparticles in reverse micellar systems and their photoluminescence properties. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 276, 339-45	9.3	35
69	Desulfurization of Vacuum Gas Oil Based on Chemical Oxidation Followed by Liquid-Liquid Extraction. <i>Energy &amp; Fuels</i> , <b>2004</b> , 18, 37-40	4.1	53
68	Heterogeneous Fluorometric Detection of pH and Metal Cations by Amphiphilic Zeolite Modified with Anthracene-Substituted Azamacrocyclic. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 6064-6069	3.9	4
67	Preparation of ZnS:Mn Nanoparticles in Reverse Micellar Systems and Their Photoluminescent Properties. <i>Journal of Chemical Engineering of Japan</i> , <b>2004</b> , 37, 675-679	0.8	1
66	Immobilization of RuS <sub>2</sub> Nanoparticles Prepared in Reverse Micellar System onto Thiol-Modified Polystyrene Particles and their Photocatalytic Properties. <i>Journal of Nanoparticle Research</i> , <b>2003</b> , 5, 61-67	2.3	8
65	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> , <b>2003</b> , 268, 394-9	9.3	30

64	Vanadosilicate Molecular Sieve as a Catalyst for Oxidative Desulfurization of Light Oil. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2003</b> , 42, 6034-6039	3.9	77
63	Photochemical Production of Biphenyls from Oxidized Sulfur Compounds Obtained by Oxidative Desulfurization of Light Oils. <i>Energy &amp; Fuels</i> , <b>2003</b> , 17, 95-100	4.1	14
62	Desulfurization Process for Light Oil Based on Chemical Adsorption of Sulfur Compounds on Polymer-Supported Imidation Agent.. <i>Journal of Chemical Engineering of Japan</i> , <b>2003</b> , 36, 1528-1531	0.8	3
61	S-Methylsulfonium Salts Obtained by Desulfurization of Vacuum Gas Oil and Catalytic-Cracked Gasoline as Thermal Latent Polymerization Initiator.. <i>Journal of Chemical Engineering of Japan</i> , <b>2003</b> , 36, 343-347	0.8	2
60	Polymer-Supported Sulfonium Salts Obtained by Desulfurization of Light Oil as Novel Phase Transfer Catalyst.. <i>Journal of Chemical Engineering of Japan</i> , <b>2003</b> , 36, 220-224	0.8	
59	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> , <b>2002</b> , 252, 89-92	9.3	9
58	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> , <b>2002</b> , 253, 62-9	9.3	63
57	Separation of Transition Metals Using Inorganic Adsorbents Modified with Chelating Ligands. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 5065-5070	3.9	54
56	The preparation of rare earth phosphate fine particles in an emulsion liquid membrane system. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 1053-1057		61
55	Preparation of Y2O3:Yb,Er Infrared-to-Visible Conversion Phosphor Fine Particles Using an Emulsion Liquid Membrane System. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 3576-3583	9.6	86
54	Incorporation of CdS Nanoparticles Formed in Reverse Micelles into Mesoporous Silica. <i>Journal of Colloid and Interface Science</i> , <b>2001</b> , 235, 358-364	9.3	47
53	Review of Advanced Liquid-Liquid Extraction Systems for the Separation of Metal Ions by a Combination of Conversion of the Metal Species with Chemical Reaction. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 3085-3091	3.9	59
52	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 &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 4919-4924	3.9	12
51	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 &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 3398-3405	3.9	10
50	A novel methodology towards deep desulfurization of light oil effected by sulfimides formation. <i>Chemical Communications</i> , <b>2001</b> , 1256-1257	5.8	17
49	Stabilization of CdS Nanoparticles Immobilized on Thiol-Modified Polystyrene Particles by Encapsulation with Polythiourethane. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 9711-9714	3.4	44
48	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> , <b>2000</b> , 10, 2592-2596		18
47	Preparation of nano-CdS/polyurethane composites via in situ polymerization in reverse micellar systems. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 2234-2235		14

46	Preparation of Y <sub>2</sub> O <sub>3</sub> : Eu <sup>3+</sup> +phosphor fine particles using an emulsion liquid membrane system. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 2306-2310		57
45	The Preparation of Spherical Calcium Phosphate Fine Particles Using an Emulsion Liquid Membrane System. <i>Langmuir</i> , <b>2000</b> , 16, 955-960	4	56
44	Preparation of Semiconductor Nanoparticle/Polymer Composites by Direct Reverse Micelle Polymerization Using Polymerizable Surfactants. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 8962-8966	3-4	71
43	Mechanism of Photoreductive Extraction of Vanadium in a Liquid-Liquid Extraction System Using Bis(2-ethylhexyl)phosphoric Acid. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2000</b> , 39, 3018-3023	3-9	7
42	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 &amp; Engineering Chemistry Research</i> , <b>2000</b> , 39, 3907-3911	3-9	39
41	Recent Research Development in Solvent Extraction. Design of Liquid-Liquid Extraction Process for Separation of Metal Ions.. <i>Kagaku Kogaku Ronbunshu</i> , <b>2000</b> , 26, 497-505	0-4	1
40	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> , <b>1999</b> , 32, 158-161	0-8	16
39	Separation and Recovery of Gallium and Indium from Simulated Zinc Refinery Residue by Liquid-Liquid Extraction. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 1032-1039	3-9	80
38	Size-Selective Incorporation of CdS Nanoparticles into Mesoporous Silica. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 4228-4230	3-4	123
37	Visible Light-Induced Deep Desulfurization Process for Light Oils by Photochemical Electron-Transfer Oxidation in an Organic Two-Phase Extraction System. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 3310-3318	3-9	33
36	Identification of Desulfurization Products in the Photochemical Desulfurization Process for Benzothiophenes and Dibenzothiophenes from Light Oil Using an Organic Two-Phase Extraction System. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 3300-3309	3-9	38
35	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 &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 1589-1595	3-9	41
34	Preparation of Semiconductor Nanoparticle/Polyurea Composites Using Reverse Micellar Systems via an in Situ Diisocyanate Polymerization. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 10120-10126	3-4	31
33	Preparation of spherical oxalate particles of rare earths in emulsion liquid membrane system. <i>AIChE Journal</i> , <b>1998</b> , 44, 197-206	3-6	21
32	Preparation of Rare-Earth-Metal Oxalate Spherical Particles in Emulsion Liquid Membrane System Using Alkylphosphinic Acid as Cation Carrier. <i>Langmuir</i> , <b>1998</b> , 14, 6648-6653	4	22
31	Te Recovery of Phosphorus Value from Incineration Ashes of Sewage Sludge Using Solvent Extraction.. <i>Kagaku Kogaku Ronbunshu</i> , <b>1998</b> , 24, 273-278	0-4	3
30	Effects of Thiols on Photocatalytic Properties of Nano-CdS-Polythiourethane Composite Particles.. <i>Journal of Chemical Engineering of Japan</i> , <b>1998</b> , 31, 1003-1006	0-8	12
29	Quantitative Study on Thiophenol Modification and Redispersion Property of Cadmium Sulfide Ultrafine Particles Prepared in Reverse Micellar Systems.. <i>Journal of Chemical Engineering of Japan</i> , <b>1998</b> , 31, 142-146	0-8	6

28	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> , <b>1998</b> , 31, 474-477	0.8	7
27	Separation of Rare Metals by Solvent Extraction Employing Reductive Stripping Technique. <i>Mineral Processing and Extractive Metallurgy Review</i> , <b>1997</b> , 17, 81-107	3.1	8
26	Photoreductive stripping of vanadium using 2-propanol as radical scavenger in liquid-liquid extraction process of vanadium and molybdenum.. <i>Journal of Chemical Engineering of Japan</i> , <b>1997</b> , 30, 268-273	0.8	5
25	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> , <b>1997</b> , 30, 1040-1046	0.8	28
24	Preparation of Fe Oxide and Composite Ti-Fe Oxide Ultrafine Particles in Reverse Micellar Systems.. <i>Journal of Chemical Engineering of Japan</i> , <b>1997</b> , 30, 938-943	0.8	11
23	Preparation of Cadmium Sulfide Ultrafine Particles Surface-Modified with Thiols in Reverse Micellar Systems and Redispersion in Non-Micellars Solvents.. <i>Journal of Chemical Engineering of Japan</i> , <b>1997</b> , 30, 86-93	0.8	32
22	Effect of Photosensitizer and Hydrogen Peroxide on Desulfurization of Light Oil by Photochemical Reaction and Liquid-Liquid Extraction. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1997</b> , 36, 530-533 <sup>3.9</sup>	3.9	46
21	Biomimetic Synthesis of Calcium Carbonate Particles in a Pseudovesicular Double Emulsion. <i>Langmuir</i> , <b>1997</b> , 13, 6650-6653	4	96
20	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> , <b>1997</b> , 30, 173-175	0.8	11
19	Preparation and Photocatalytic Reactions of Titanium Dioxide Ultrafine Particles in Reverse Micellar Systems.. <i>Journal of Chemical Engineering of Japan</i> , <b>1997</b> , 30, 137-145	0.8	11
18	Acidic Phosphinates with Different Alkyl Groups as Extractants for Rare Earths.. <i>Journal of Chemical Engineering of Japan</i> , <b>1996</b> , 29, 1041-1044	0.8	11
17	Separation of Ce from La/Ce/Nd mixture by photooxidation and liquid-liquid extraction.. <i>Journal of Chemical Engineering of Japan</i> , <b>1996</b> , 29, 731-733	0.8	15
16	Preparation of Copper Oxalate Fine Particles Using Emulsion Liquid Membrane System.. <i>Journal of Chemical Engineering of Japan</i> , <b>1996</b> , 29, 842-850	0.8	11
15	Mechanism of formation of silver halide ultrafine particles in reverse micellar systems.. <i>Journal of Chemical Engineering of Japan</i> , <b>1996</b> , 29, 501-507	0.8	17
14	Mechanism of formation of lead sulfide ultrafine particles in reverse micellar systems.. <i>Journal of Chemical Engineering of Japan</i> , <b>1995</b> , 28, 468-473	0.8	18
13	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> , <b>1995</b> , 28, 85-90	0.8	14
12	The effect of formic acid on photoreductive stripping of vanadium in liquid-liquid extraction process of vanadium and molybdenum.. <i>Journal of Chemical Engineering of Japan</i> , <b>1995</b> , 28, 486-488	0.8	6
11	Preparation of Metal Sulfide Composite Ultrafine Particles in Reverse Micellar Systems and Their Photocatalytic Property.. <i>Journal of Chemical Engineering of Japan</i> , <b>1994</b> , 27, 590-597	0.8	70



10	Photoreductive Stripping of Vanadium in Solvent Extraction Process for Separation of Vanadium and Molybdenum.. <i>Journal of Chemical Engineering of Japan</i> , <b>1993</b> , 26, 416-421	0.8	10
9	Separation of europium from samarium and gadolinium by combination of photochemical reduction and solvent extraction.. <i>Journal of Chemical Engineering of Japan</i> , <b>1993</b> , 26, 64-67	0.8	21
8	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> , <b>1993</b> , 42, 681-686	0.2	1
7	Synergistic Extraction of Rare-Earth Elements by Alkyl Phosphoric Acid and Tri-n-Octylmethylammonium Nitrate.. <i>Journal of Chemical Engineering of Japan</i> , <b>1992</b> , 25, 218-220	0.8	1
6	Separation of europium from samarium and gadolinium by combination of electrochemical reduction and solvent extraction.. <i>Journal of Chemical Engineering of Japan</i> , <b>1992</b> , 25, 644-648	0.8	26
5	Extraction on vanadium(V) from hydrochloric acid by tri-n-octylmethylammonium chloride.. <i>Journal of Chemical Engineering of Japan</i> , <b>1991</b> , 24, 301-305	0.8	4
4	Mechanism of extraction of cobalt from hydrochloric acid by tri-n-octylmethylammonium chloride.. <i>Journal of Chemical Engineering of Japan</i> , <b>1991</b> , 24, 58-62	0.8	7
3	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> , <b>1991</b> , 24, 731-736	0.8	33
2	Electro-reductive stripping of vanadium in solvent extraction process for separation of vanadium and molybdenum.. <i>Journal of Chemical Engineering of Japan</i> , <b>1991</b> , 24, 124-125	0.8	7
1	Separation and purification of vanadium and molybdenum by solvent extraction followed by reductive stripping.. <i>Journal of Chemical Engineering of Japan</i> , <b>1990</b> , 23, 208-213	0.8	13