

Takayuki Hirai

List of Publications by Citations

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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 | 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 | 16.4 | 530 |
| 134 | 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 | 13.1 | 398 |
| 133 | Sunlight-driven hydrogen peroxide production from water and molecular oxygen by metal-free photocatalysts. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13454-9 | 16.4 | 320 |
| 132 | Selective organic transformations on titanium oxide-based photocatalysts. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2008 , 9, 157-170 | 16.4 | 290 |
| 131 | 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, 10019-25 | 16.4 | 273 |
| 130 | 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 | 13.1 | 271 |
| 129 | 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 | 13.1 | 185 |
| 128 | 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 | 13.1 | 183 |
| 127 | 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, 5295-9 | 16.4 | 160 |
| 126 | Resorcinol-formaldehyde resins as metal-free semiconductor photocatalysts for solar-to-hydrogen peroxide energy conversion. <i>Nature Materials</i> , 2019 , 18, 985-993 | 27 | 158 |
| 125 | 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 | 13.1 | 156 |
| 124 | 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, 15255-8 | 5.8 | 133 |
| 123 | Size-Selective Incorporation of CdS Nanoparticles into Mesoporous Silica. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 4228-4230 | 3.4 | 123 |
| 122 | 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, 9324-32 | 16.4 | 117 |
| 121 | Highly Efficient and Selective Hydrogenation of Nitroaromatics on Photoactivated Rutile Titanium Dioxide. <i>ACS Catalysis</i> , 2012 , 2, 2475-2481 | 13.1 | 109 |
| 120 | Selective Hydrogen Peroxide Formation by Titanium Dioxide Photocatalysis with Benzylic Alcohols and Molecular Oxygen in Water. <i>ACS Catalysis</i> , 2013 , 3, 2222-2227 | 13.1 | 96 |
| 119 | Biomimetic Synthesis of Calcium Carbonate Particles in a Pseudovesicular Double Emulsion. <i>Langmuir</i> , 1997 , 13, 6650-6653 | 4 | 96 |

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| 118 | 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 | 9.6 | 86 |
| 117 | Selective Nitrate-to-Ammonia Transformation on Surface Defects of Titanium Dioxide Photocatalysts. <i>ACS Catalysis</i> , 2017 , 7, 3713-3720 | 13.1 | 80 |
| 116 | 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> , 2020 , 142, 7574-7583 | 16.4 | 80 |
| 115 | Separation and Recovery of Gallium and Indium from Simulated Zinc Refinery Residue by Liquid-Liquid Extraction. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 1032-1039 | 3.9 | 80 |
| 114 | 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, 103-8 | 9.3 | 77 |
| 113 | Vanadosilicate Molecular Sieve as a Catalyst for Oxidative Desulfurization of Light Oil. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 6034-6039 | 3.9 | 77 |
| 112 | Light-triggered self-assembly of gold nanoparticles based on photoisomerization of spirothiopyran. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8304-8 | 16.4 | 74 |
| 111 | Preparation of Semiconductor Nanoparticle-Polymer Composites by Direct Reverse Micelle Polymerization Using Polymerizable Surfactants. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 8962-8966 | 3.4 | 71 |
| 110 | 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 | 0.8 | 70 |
| 109 | Visible light-induced partial oxidation of cyclohexane on WO ₃ loaded with Pt nanoparticles. <i>Catalysis Science and Technology</i> , 2012 , 2, 400-405 | 5.5 | 68 |
| 108 | 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 | 6.1 | 65 |
| 107 | Titanium Dioxide/Reduced Graphene Oxide Hybrid Photocatalysts for Efficient and Selective Partial Oxidation of Cyclohexane. <i>ACS Catalysis</i> , 2017 , 7, 293-300 | 13.1 | 64 |
| 106 | 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, 62-9 | 9.3 | 63 |
| 105 | Coumarin-Spiropyran Dyad with a Hydrogenated Pyran Moiety for Rapid, Selective, and Sensitive Fluorometric Detection of Cyanide Anion. <i>Analytical Chemistry</i> , 2016 , 88, 6805-11 | 7.8 | 61 |
| 104 | The preparation of rare earth phosphate fine particles in an emulsion liquid membrane system. <i>Journal of Materials Chemistry</i> , 2002 , 12, 1053-1057 | | 61 |
| 103 | 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 & Engineering Chemistry Research</i> , 2001 , 40, 3085-3091 | 3.9 | 59 |
| 102 | Mellitic Triimide-Doped Carbon Nitride as Sunlight-Driven Photocatalysts for Hydrogen Peroxide Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 6478-6485 | 8.3 | 58 |
| 101 | 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 | | 57 |

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| 100 | The Preparation of Spherical Calcium Phosphate Fine Particles Using an Emulsion Liquid Membrane System. <i>Langmuir</i> , 2000 , 16, 955-960 | 4 | 56 |
| 99 | 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 | 13.1 | 55 |
| 98 | Separation of Transition Metals Using Inorganic Adsorbents Modified with Chelating Ligands. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 5065-5070 | 3.9 | 54 |
| 97 | Hydrogen Peroxide Production on a Carbon Nitride/Boron Nitride-Reduced Graphene Oxide Hybrid Photocatalyst under Visible Light. <i>ChemCatChem</i> , 2018 , 10, 2070-2077 | 5.2 | 53 |
| 96 | Desulfurization of Vacuum Gas Oil Based on Chemical Oxidation Followed by Liquid-Liquid Extraction. <i>Energy & Fuels</i> , 2004 , 18, 37-40 | 4.1 | 53 |
| 95 | 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, 470-7 | 9.3 | 51 |
| 94 | 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 | 13.1 | 50 |
| 93 | Incorporation of CdS Nanoparticles Formed in Reverse Micelles into Mesoporous Silica. <i>Journal of Colloid and Interface Science</i> , 2001 , 235, 358-364 | 9.3 | 47 |
| 92 | 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 | 3.9 | 46 |
| 91 | 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 | 3.4 | 44 |
| 90 | Supported Au-Cu Bimetallic Alloy Nanoparticles: An Aerobic Oxidation Catalyst with Regenerable Activity by Visible-Light Irradiation. <i>Angewandte Chemie</i> , 2013 , 125, 5403-5407 | 3.6 | 42 |
| 89 | 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 | 3.9 | 41 |
| 88 | Sunlight-Driven Hydrogen Peroxide Production from Water and Molecular Oxygen by Metal-Free Photocatalysts. <i>Angewandte Chemie</i> , 2014 , 126, 13672-13677 | 3.6 | 39 |
| 87 | 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 | 3.9 | 39 |
| 86 | 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 | 13.1 | 38 |
| 85 | 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, 5569-73 | 3.4 | 38 |
| 84 | 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 & Engineering Chemistry Research</i> , 1999 , 38, 3300-3309 | 3.9 | 38 |
| 83 | 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, 339-45 | 9.3 | 35 |

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| 82 | 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 | 3.9 | 33 |
| 81 | 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 | 0.8 | 33 |
| 80 | 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> , 1997 , 30, 86-93 | 0.8 | 32 |
| 79 | 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 | 3.4 | 31 |
| 78 | 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, 394-9 | 9.3 | 30 |
| 77 | Photocatalytic hydrogen peroxide splitting on metal-free powders assisted by phosphoric acid as a stabilizer. <i>Nature Communications</i> , 2020 , 11, 3386 | 17.4 | 28 |
| 76 | 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 | 0.8 | 28 |
| 75 | 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, 513-6 | 9.3 | 27 |
| 74 | 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 | 0.8 | 26 |
| 73 | 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 | 5.5 | 25 |
| 72 | Selective photooxidation of chlorophenols with molecularly imprinted polymers containing a photosensitizer. <i>New Journal of Chemistry</i> , 2010 , 34, 714 | 3.6 | 23 |
| 71 | Preparation of ZnO nanoparticles in a reverse micellar system and their photoluminescence properties. <i>Journal of Colloid and Interface Science</i> , 2005 , 284, 184-9 | 9.3 | 22 |
| 70 | 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 | 4 | 22 |
| 69 | Photoreductive synthesis of monodispersed Au nanoparticles with citric acid as reductant and surface stabilizing reagent. <i>RSC Advances</i> , 2017 , 7, 6187-6192 | 3.7 | 21 |
| 68 | Photocatalytic NH ₃ Splitting on TiO ₂ Particles Decorated with PtAu Bimetallic Alloy Nanoparticles. <i>ACS Applied Nano Materials</i> , 2020 , 3, 1612-1620 | 5.6 | 21 |
| 67 | Preparation of spherical oxalate particles of rare earths in emulsion liquid membrane system. <i>AIChE Journal</i> , 1998 , 44, 197-206 | 3.6 | 21 |
| 66 | 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 | 0.8 | 21 |
| 65 | 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 | 3.6 | 18 |

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| 64 | Synthesis of Au Nanoparticles with Benzoic Acid as Reductant and Surface Stabilizer Promoted Solely by UV Light. <i>Langmuir</i> , 2017 , 33, 13797-13804 | 4 | 18 |
| 63 | Hydrophobic CrBi mixed oxides as a catalyst for visible light-induced partial oxidation of cyclohexane. <i>New Journal of Chemistry</i> , 2010 , 34, 2841 | 3.6 | 18 |
| 62 | 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 | | 18 |
| 61 | Mechanism of formation of lead sulfide ultrafine particles in reverse micellar systems.. <i>Journal of Chemical Engineering of Japan</i> , 1995 , 28, 468-473 | 0.8 | 18 |
| 60 | Photocatalytic Dinitrogen Reduction with Water on Boron-Doped Carbon Nitride Loaded with Nickel Phosphide Particles. <i>Langmuir</i> , 2020 , 36, 734-741 | 4 | 18 |
| 59 | A novel methodology towards deep desulfurization of light oil effected by sulfimides formation. <i>Chemical Communications</i> , 2001 , 1256-1257 | 5.8 | 17 |
| 58 | Mechanism of formation of silver halide ultrafine particles in reverse micellar systems.. <i>Journal of Chemical Engineering of Japan</i> , 1996 , 29, 501-507 | 0.8 | 17 |
| 57 | Solar-to-hydrogen peroxide energy conversion on resorcinol-formaldehyde resin photocatalysts prepared by acid-catalysed polycondensation. <i>Communications Chemistry</i> , 2020 , 3, | 6.3 | 17 |
| 56 | 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, 508-13 | 9.3 | 16 |
| 55 | 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 | 0.8 | 16 |
| 54 | Polythiophene-Doped Resorcinol-Formaldehyde Resin Photocatalysts for Solar-to-Hydrogen Peroxide Energy Conversion. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12590-12599 | 16.4 | 16 |
| 53 | A pyrylium-floumarin 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 | 3.6 | 15 |
| 52 | Naphthalimide-floumarin conjugate: ratiometric fluorescent receptor for self-calibrating quantification of cyanide anions in cells. <i>RSC Advances</i> , 2017 , 7, 32304-32309 | 3.7 | 15 |
| 51 | Titanium Oxide-based Photocatalysts for Selective Organic Transformations. <i>Journal of the Japan Petroleum Institute</i> , 2012 , 55, 287-298 | 1 | 15 |
| 50 | 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 | 0.8 | 15 |
| 49 | A coumarin-dihydroperimidine dye as a fluorescent chemosensor for hypochlorite in 99% water.. <i>RSC Advances</i> , 2019 , 9, 28636-28641 | 3.7 | 14 |
| 48 | Light-Triggered Self-Assembly of Gold Nanoparticles Based on Photoisomerization of Spirothiopyran. <i>Angewandte Chemie</i> , 2013 , 125, 8462-8466 | 3.6 | 14 |
| 47 | Photochemical Production of Biphenyls from Oxidized Sulfur Compounds Obtained by Oxidative Desulfurization of Light Oils. <i>Energy & Fuels</i> , 2003 , 17, 95-100 | 4.1 | 14 |

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| 46 | Preparation of nano-CdS/polyurethane composites via in situ polymerization in reverse micellar systems. <i>Journal of Materials Chemistry</i> , 2000 , 10, 2234-2235 | | 14 |
| 45 | 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 | 0.8 | 14 |
| 44 | 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 | 3.6 | 13 |
| 43 | 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 | 3.9 | 13 |
| 42 | 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 | 0.8 | 13 |
| 41 | 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 | 3.6 | 12 |
| 40 | 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 | 3.9 | 12 |
| 39 | Effects of Thiols on Photocatalytic Properties of Nano-CdS-Polythiourethane Composite Particles.. <i>Journal of Chemical Engineering of Japan</i> , 1998 , 31, 1003-1006 | 0.8 | 12 |
| 38 | Photocatalytic hydrodenitrogenation of aromatic cyanides on TiO ₂ loaded with Pd nanoparticles. <i>Catalysis Science and Technology</i> , 2013 , 3, 1718 | 5.5 | 11 |
| 37 | 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 | 0.8 | 11 |
| 36 | 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 | 0.8 | 11 |
| 35 | 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 | 0.8 | 11 |
| 34 | Acidic Phosphinates with Different Alkyl Groups as Extractants for Rare Earths.. <i>Journal of Chemical Engineering of Japan</i> , 1996 , 29, 1041-1044 | 0.8 | 11 |
| 33 | Preparation of Copper Oxalate Fine Particles Using Emulsion Liquid Membrane System.. <i>Journal of Chemical Engineering of Japan</i> , 1996 , 29, 842-850 | 0.8 | 11 |
| 32 | 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 | 3.9 | 10 |
| 31 | 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 | 0.8 | 10 |
| 30 | Spiropyran/cholesterol conjugate as a photoresponsive organogelator. <i>New Journal of Chemistry</i> , 2013 , 37, 2642 | 3.6 | 9 |
| 29 | 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 | 9.3 | 9 |

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| 28 | Separation of Rare Metals by Solvent Extraction Employing Reductive Stripping Technique. <i>Mineral Processing and Extractive Metallurgy Review</i> , 1997 , 17, 81-107 | 3.1 | 8 |
| 27 | 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 ³ | 2.3 | 8 |
| 26 | Mechanism of Photoreductive Extraction of Vanadium in a Liquid-Liquid Extraction System Using Bis(2-ethylhexyl)phosphoric Acid. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 3018-3023 | 3.9 | 7 |
| 25 | Mechanism of extraction of cobalt from hydrochloric acid by tri-n-octylmethylammonium chloride.. <i>Journal of Chemical Engineering of Japan</i> , 1991 , 24, 58-62 | 0.8 | 7 |
| 24 | Electro-reductive stripping of vanadium in solvent extraction process for separation of vanadium and molybdenum.. <i>Journal of Chemical Engineering of Japan</i> , 1991 , 24, 124-125 | 0.8 | 7 |
| 23 | 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 | 0.8 | 7 |
| 22 | 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> , 1995 , 28, 486-488 | 0.8 | 6 |
| 21 | 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> , 1998 , 31, 142-146 | 0.8 | 6 |
| 20 | 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> , 1997 , 30, 268-273 | 0.8 | 5 |
| 19 | Heterogeneous Fluorometric Detection of pH and Metal Cations by Amphiphilic Zeolite Modified with Anthracene-Substituted Azamacrocycle. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 6064-6069 | 3.9 | 4 |
| 18 | Extraction on vanadium(V) from hydrochloric acid by tri-n-octylmethylammonium chloride.. <i>Journal of Chemical Engineering of Japan</i> , 1991 , 24, 301-305 | 0.8 | 4 |
| 17 | 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> , 2015 , 48, 141-146 | 0.8 | 3 |
| 16 | Te Recovery of Phosphorus Value from Incineration Ashes of Sewage Sludge Using Solvent Extraction.. <i>Kagaku Kogaku Ronbunshu</i> , 1998 , 24, 273-278 | 0.4 | 3 |
| 15 | 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> , 2003 , 36, 1528-1531 | 0.8 | 3 |
| 14 | A Naphthalimide-Bulfonylhydrazine Conjugate as a Fluorescent Chemodosimeter for Hypochlorite. <i>Chemosensors</i> , 2020 , 8, 123 | 4 | 3 |
| 13 | An antimalarial drug, tafenoquine, as a fluorescent receptor for ratiometric detection of hypochlorite. <i>RSC Advances</i> , 2017 , 7, 30453-30458 | 3.7 | 2 |
| 12 | Amino-substituted spirothiopyran as an initiator for self-assembly of gold nanoparticles. <i>RSC Advances</i> , 2015 , 5, 77572-77580 | 3.7 | 2 |
| 11 | 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> , 2003 , 36, 343-347 | 0.8 | 2 |

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| 10 | Recent Research Development in Solvent Extraction. Design of Liquid-Liquid Extraction Process for Separation of Metal Ions.. <i>Kagaku Kogaku Ronbunshu</i> , 2000 , 26, 497-505 | 0.4 | 1 |
| 9 | 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 | 0.2 | 1 |
| 8 | 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 | 0.8 | 1 |
| 7 | Spontaneous Isomerization of a Hydroxynaphthalene-Containing Spiropyran in Polar Solvents Enhanced by Hydrogen Bonding Interactions.. <i>ACS Omega</i> , 2021 , 6, 35619-35628 | 3.9 | 1 |
| 6 | 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 | 0.8 | 1 |
| 5 | Hydrogen peroxide splitting on Nafion-coated graphene quantum dots/carbon nitride photocatalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022 , 113949 | 4.7 | 0 |
| 4 | Thermodynamic Properties of Tetra-n-butylphosphonium Dicarboxylate Semiclathrate Hydrates. <i>Journal of Chemical & Engineering Data</i> , 2022 , 67, 67-73 | 2.8 | 0 |
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