

Tsukasa Torimoto

List of Publications by Year in Descending Order

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

210
papers

8,954
citations

49
h-index

88
g-index

243
ext. papers

9,567
ext. citations

4.7
avg, IF

5.91
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 210 | Surface ligand chemistry on quaternary Ag(In _x Ga _{1-x})S ₂ semiconductor quantum dots for improving photoluminescence properties. <i>Nanoscale Advances</i> , 2022 , 4, 849-857 | 5.1 | 1 |
| 209 | Recent Progress of Multinary Semiconductor Quantum Dots Towards Luminescent and Photoelectrochemical Applications. <i>Denki Kagaku</i> , 2022 , 90, 115-121 | 0 | 0 |
| 208 | Red-light-activatable ruthenium phthalocyanine catalysts. <i>Chemical Communications</i> , 2021 , | 5.8 | 3 |
| 207 | Shape-controlled synthesis of Cu ₂ O nanoparticles with single-digit nanoscale void space via ionic liquid/metal sputtering and their photoelectrochemical properties. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, SAAC01 | 1.4 | 5 |
| 206 | Variations in Photoluminescence Intensity of a Quantum Dot Assembly Investigated by Its Adsorption on Cubic Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8285-8293 | 3.8 | 1 |
| 205 | Optical force mapping at the single-nanometre scale. <i>Nature Communications</i> , 2021 , 12, 3865 | 17.4 | 8 |
| 204 | Incoherent Optical Tweezers on Black Titanium. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 27586-27593 | 9.3 | 3 |
| 203 | Photoluminescence Enhancement by Light Harvesting of Metal-Organic Frameworks Surrounding Semiconductor Quantum Dots. <i>Chemistry of Materials</i> , 2021 , 33, 1607-1617 | 9.6 | 7 |
| 202 | [Paper] Green Electroluminescence Generated by Band-edge Transition in Ag-In-Ga-S/Ga _x S _{1-x} Core/shell Quantum Dots. <i>ITE Transactions on Media Technology and Applications</i> , 2021 , 9, 222-227 | 0.7 | 0 |
| 201 | Photoluminescence properties of quinary Ag(In,Ga)(S,Se) quantum dots with a gradient alloy structure for in vivo bioimaging. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 12791-12801 | 7.1 | 4 |
| 200 | Luminescent Quaternary Ag(InGa)S/GaS Core/Shell Quantum Dots Prepared Using Dithiocarbamate Compounds and Photoluminescence Recovery via Post Treatment. <i>Inorganic Chemistry</i> , 2021 , 60, 13101-13109 | 5.1 | 5 |
| 199 | Perylene-Cy3 FRET System to Analyze Photoactive DNA Structures. <i>Chemistry - A European Journal</i> , 2021 , 27, 12845-12850 | 4.8 | 1 |
| 198 | Controlling the visible-light driven photocatalytic activity of alloyed ZnSeAgInSe ₂ quantum dots for hydrogen production. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13142-13149 | 13 | 26 |
| 197 | Efficient quantum-dot light-emitting diodes using ZnSAgInS ₂ solid-solution quantum dots in combination with organic charge-transport materials. <i>Applied Physics Letters</i> , 2020 , 116, 093302 | 3.4 | 7 |
| 196 | Tailored Photoluminescence Properties of Ag(In,Ga)Se ₂ Quantum Dots for Near-Infrared In Vivo Imaging. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3275-3287 | 5.6 | 18 |
| 195 | Embedding Quantum Dots with High Quantum Yield in Inorganic Matrix By Sol-Gel Method. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-02, 3639-3639 | 0 | 0 |
| 194 | Syntheses and Photoelectrochemical Properties of Plasmonic Molybdenum Oxide Nanoparticles Via Ionic Liquid/Metal Sputtering. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-02, 2962-2962 | 0 | 0 |

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| 193 | Temperature dependences of photoluminescence intensities observed from AgInGaS and AgInGaS/GaSx core/shell nanoparticles. <i>Journal of Nanophotonics</i> , 2020 , 14, 1 | 1.1 | |
| 192 | Synthesis of submicron-sized CdS particles using reverse micelles. <i>Journal of Nanophotonics</i> , 2020 , 14, 1 | 1.1 | 1 |
| 191 | Controlling Optical Properties of Multinary Quantum Dots for Developing Novel Photoelectrochemical Reactions 2020 , 223-237 | | |
| 190 | Hot electron transfer in Zn-Ag-In-Te nanocrystal-methyl viologen complexes enhanced with higher-energy photon excitation.. <i>RSC Advances</i> , 2020 , 10, 16361-16365 | 3.7 | 6 |
| 189 | Controlling the oxidation state of molybdenum oxide nanoparticles prepared by ionic liquid/metal sputtering to enhance plasmon-induced charge separation.. <i>RSC Advances</i> , 2020 , 10, 28516-28522 | 3.7 | 8 |
| 188 | Electroluminescence from band-edge-emitting AgInS ₂ /GaSx core/shell quantum dots. <i>Applied Physics Letters</i> , 2020 , 117, 091101 | 3.4 | 9 |
| 187 | Red light-inducible overall water-splitting photocatalyst, gold-inserted zinc rhodium oxide and bismuth vanadium oxide heterojunction, connected using gold prepared by sputtering in ionic liquid. <i>Journal of Chemical Physics</i> , 2020 , 153, 014701 | 3.9 | 5 |
| 186 | Controlling Electronic Energy Structure of AgInGaS ₂ Quantum Dots Showing Band-Edge Emission. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-02, 3121-3121 | 0 | |
| 185 | Nanotraffic Lights: Rayleigh Scattering Microspectroscopy of Optically Trapped Octahedral Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 23096-23102 | 3.8 | 2 |
| 184 | Enhanced Photoelectrochemical Properties of ZnAgInTe Nanocrystals with High Energy Photon Excitation. <i>ChemNanoMat</i> , 2019 , 5, 1028-1035 | 3.5 | 3 |
| 183 | Direct surface modification of semiconductor quantum dots with metal-organic frameworks. <i>CrystEngComm</i> , 2019 , 21, 5568-5577 | 3.3 | 10 |
| 182 | Core Nanoparticle Engineering for Narrower and More Intense Band-Edge Emission from AgInS/GaS Core/Shell Quantum Dots. <i>Nanomaterials</i> , 2019 , 9, | 5.4 | 7 |
| 181 | Enhanced Photocatalytic Activity of ZnAgInS Semiconductor Nanocrystals with a Dumbbell-Shaped Heterostructure. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13705-13715 | 3.8 | 17 |
| 180 | Electrocatalyst: Pt-Nanoparticle-Supported Carbon Electrocatalysts Functionalized with a Protic Ionic Liquid and Organic Salt (Adv. Mater. Interfaces 3/2018). <i>Advanced Materials Interfaces</i> , 2018 , 5, 1870010 | 4.6 | 1 |
| 179 | Rod-shaped ZnAgInTe nanocrystals with wavelength-tunable band-edge photoluminescence in the near-IR region. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2034-2042 | 7.1 | 12 |
| 178 | Platinum Nanoparticle-Supported Electrocatalysts Functionalized by Carbonization of Protic Ionic Liquid and Organic Salts. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3030-3034 | 6.1 | 7 |
| 177 | Narrow band-edge photoluminescence from AgInS ₂ semiconductor nanoparticles by the formation of amorphous IIIIV semiconductor shells. <i>NPG Asia Materials</i> , 2018 , 10, 713-726 | 10.3 | 46 |
| 176 | Oxygen reduction electrocatalysts sophisticated by using Pt nanoparticle-dispersed ionic liquids with electropolymerizable additives. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11853-11862 | 13 | 14 |

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|-----|--|-----|----|
| 175 | Optical trapping of gold and semiconductor nanoparticles at oil-water interfaces with a focused near-infrared laser beam 2018 , | | 1 |
| 174 | Pt-Nanoparticle-Supported Carbon Electrocatalysts Functionalized with a Protic Ionic Liquid and Organic Salt. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701123 | 4.6 | 15 |
| 173 | Wavelength-Tunable Band-Edge Photoluminescence of Nonstoichiometric Ag-In-S Nanoparticles via Ga Doping. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42844-42855 | 9.5 | 29 |
| 172 | Photoluminescence characterization of ZnS-AgInS ₂ (ZAIS) nanoparticles adsorbed on plasmonic chip studied with fluorescence microscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 367, 347-354 | 4.7 | 5 |
| 171 | Labeling and in vivo visualization of transplanted adipose tissue-derived stem cells with safe cadmium-free aqueous ZnS coating of ZnS-AgInS nanoparticles. <i>Scientific Reports</i> , 2017 , 7, 40047 | 4.9 | 21 |
| 170 | Influence of Zn on the photoluminescence of colloidal (AgIn)ZnS nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 3963-3969 | 3.6 | 25 |
| 169 | Electrocatalytic Activity of Bimetallic Pd-Au Particle Films Prepared by Sequential Sputter Deposition of Pd and Au onto Hydroxyl-functionalized Ionic Liquid. <i>Chemistry Letters</i> , 2017 , 46, 956-959 | 1.7 | 5 |
| 168 | Improvement of photoluminescence stability of ZnS-AgInS ₂ nanoparticles through interactions with ionic liquids. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 332, 371-375 | 4.7 | 4 |
| 167 | Nanostructure Engineering of Size-Quantized Semiconductor Particles for Photoelectrochemical Applications. <i>Electrochemistry</i> , 2017 , 85, 534-542 | 1.2 | 5 |
| 166 | Controlling the Size and Chemical Composition of Multinary Semiconductor Nanocrystals for Improving Photochemical Functions. <i>Hyomen Kagaku</i> , 2017 , 38, 18-23 | | |
| 165 | Highly durable Pt nanoparticle-supported carbon catalysts for the oxygen reduction reaction tailored by using an ionic liquid thin layer. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12152-12157 | 13 | 32 |
| 164 | Top-Down Synthesis Methods for Nanoscale Catalysts 2016 , 171-205 | | 4 |
| 163 | In situ Electron Microscope Observation of Surface Chemical Reactions Using Ionic Liquid. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2016 , 67, 79-83 | 0.1 | |
| 162 | Temperature-independent formation of Au nanoparticles in ionic liquids by arc plasma deposition. <i>Chemical Physics Letters</i> , 2016 , 658, 188-191 | 2.5 | 7 |
| 161 | Single-particle spectroscopy of I-III-VI semiconductor nanocrystals: spectral diffusion and suppression of blinking by two-color excitation. <i>Nanoscale</i> , 2016 , 8, 13687-94 | 7.7 | 21 |
| 160 | Crystal phase-controlled synthesis of rod-shaped AgInTe ₂ nanocrystals for in vivo imaging in the near-infrared wavelength region. <i>Nanoscale</i> , 2016 , 8, 5435-40 | 7.7 | 42 |
| 159 | Intra- and inter-atomic optical transitions of Fe, Co, and Ni ferrocyanides studied using first-principles many-electron calculations. <i>Journal of Applied Physics</i> , 2016 , 119, 235102 | 2.5 | 9 |
| 158 | Evaluation of Surface Ligands on Semiconductor Nanoparticle Surfaces Using Electron Transfer to Redox Species. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 16012-16023 | 3.8 | 8 |

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|-----|---|------|-----|
| 157 | Formation of a Pt-Decorated Au Nanoparticle Monolayer Floating on an Ionic Liquid by the Ionic Liquid/Metal Sputtering Method and Tunable Electrocatalytic Activities of the Resulting Monolayer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10874-83 | 9.5 | 19 |
| 156 | Controlling Shape Anisotropy of ZnS-AgInS Solid Solution Nanoparticles for Improving Photocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27151-27161 | 9.5 | 44 |
| 155 | Single-step preparation of indium tin oxide nanocrystals dispersed in ionic liquids via oxidation of molten In-Sn alloys. <i>Chemical Communications</i> , 2016 , 52, 12241-12244 | 5.8 | 2 |
| 154 | Single-step preparation of two-dimensionally organized gold particles via ionic liquid/metal sputter deposition. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13150-9 | 3.6 | 22 |
| 153 | Wavelength- and efficiency-tunable plasmon-induced charge separation by the use of Au-Ag alloy nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 4042-6 | 3.6 | 30 |
| 152 | Controlling the Electronic Energy Structure of ZnS-AgInS ₂ Solid Solution Nanocrystals for Photoluminescence and Photocatalytic Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24740-24749 | 3.8 | 97 |
| 151 | Ultrathin oxide shell coating of metal nanoparticles using ionic liquid/metal sputtering. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6177-6186 | 13 | 32 |
| 150 | Well-controlled synthesis of wurtzite-type Cu ₂ ZnSnS ₄ nanoparticles using multiple sulfur sources via a two-step heating process. <i>CrystEngComm</i> , 2015 , 17, 174-182 | 3.3 | 10 |
| 149 | Electron Microscope Observation of Soft Materials Using Ionic Liquids. <i>Hyomen Kagaku</i> , 2015 , 36, 195-200 | | |
| 148 | Synthesis of alloy AuCu nanoparticles with the L1 ₂ structure in an ionic liquid using sputter deposition. <i>Dalton Transactions</i> , 2015 , 44, 4186-94 | 4.3 | 26 |
| 147 | Photofunctional Materials Fabricated with Chalcopyrite-Type Semiconductor Nanoparticles Composed of AgInS ₂ and Its Solid Solutions. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 336-47 | 6.4 | 100 |
| 146 | Atomic resolution imaging of gold nanoparticle generation and growth in ionic liquids. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13789-97 | 16.4 | 49 |
| 145 | Light-induced saturation change in the angle-independent structural coloration of colloidal amorphous arrays. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 344-348 | 7.1 | 33 |
| 144 | Controllable electronic energy structure of size-controlled Cu ₂ ZnSnS ₄ nanoparticles prepared by a solution-based approach. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 672-5 | 3.6 | 23 |
| 143 | Visualization of Electrochemical Reactions by Redox-dependent Quenching of Photoluminescence from ZnS-AgInS ₂ Solid Solution Semiconductor Nanoparticles. <i>Electrochemistry</i> , 2014 , 82, 338-340 | 1.2 | 2 |
| 142 | Size-Controlled Synthesis of Ag ₈ SnS ₆ Nanocrystals for Efficient Photoenergy Conversion Systems Driven by Visible and Near-IR Lights. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 1122-1126 | 3.1 | 6 |
| 141 | Three-dimensional micro/nano-scale structure fabricated by combination of non-volatile polymerizable RTIL and FIB irradiation. <i>Scientific Reports</i> , 2014 , 4, 3722 | 4.9 | 20 |
| 140 | Widely Controllable Electronic Energy Structure of ZnSe-AgInSe ₂ Solid Solution Nanocrystals for Quantum-Dot-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29517-29524 | 3.8 | 43 |

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| 139 | Colloidal Syntheses of Semiconductor Nanoparticles with Tunable Photoluminescence in Visible-Light Region and Their Application to Photo-functional Materials. <i>Journal of the Japan Society of Colour Material</i> , 2014 , 87, 430-435 | 0 | |
| 138 | Photoinduced Electron Transfer of ZnS/AgInS ₂ Solid-Solution Semiconductor Nanoparticles: Emission Quenching and Photocatalytic Reactions Controlled by Electrostatic Forces. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15667-15676 | 3.8 | 16 |
| 137 | Composition-Dependent Photoelectrochemical Properties of Nonstoichiometric Cu ₂ ZnSnS ₄ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 21055-21063 | 3.8 | 14 |
| 136 | Composition-dependent electrocatalytic activity of AuPd alloy nanoparticles prepared via simultaneous sputter deposition into an ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 7286-7294 | 3.6 | 47 |
| 135 | Theory for self-consistent interplay between light and nanomaterials strongly modified by metallic nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 4214-25 | 3.6 | 7 |
| 134 | ZnS/AgInS ₂ nanoparticles as a temperature sensor. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 505-508 | 3.5 | 37 |
| 133 | Plasmon-Enhanced Photoluminescence and Photocatalytic Activities of Visible-Light-Responsive ZnS-AgInS ₂ Solid Solution Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2511-2520 | 3.8 | 49 |
| 132 | Shape-controlled Synthesis of ZnS/CuInS ₂ /AgInS ₂ Solid Solution Nanoparticles and Their Photoluminescence Properties. <i>Chemistry Letters</i> , 2013 , 42, 171-173 | 1.7 | 3 |
| 131 | 1.?????????????????????????????????????. <i>Electrochemistry</i> , 2013 , 81, 635-640 | 1.2 | |
| 130 | Use of Ionic Liquid Under Vacuum Conditions 2013 , | | 2 |
| 129 | Adipose Tissue-Derived Stem Cell Imaging Using Cadmium-Free Quantum Dots. <i>Cell Medicine</i> , 2013 , 6, 91-7 | 4.9 | 13 |
| 128 | Solution-phase Synthesis of Stannite-type Ag ₂ ZnSnS ₄ Nanoparticles for Application to Photoelectrode Materials. <i>Chemistry Letters</i> , 2012 , 41, 1009-1011 | 1.7 | 36 |
| 127 | Platinum nanoparticle immobilization onto carbon nanotubes using Pt-sputtered room-temperature ionic liquid. <i>RSC Advances</i> , 2012 , 2, 8262 | 3.7 | 53 |
| 126 | Photosensitization of ZnO rod electrodes with AgInS ₂ nanoparticles and ZnS-AgInS ₂ solid solution nanoparticles for solar cell applications. <i>RSC Advances</i> , 2012 , 2, 552-559 | 3.7 | 43 |
| 125 | Tunable Photoelectrochemical Properties of Chalcopyrite AgInS ₂ Nanoparticles Size-Controlled with a Photoetching Technique. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21895-21902 | 3.8 | 37 |
| 124 | Compositional control of AuPt nanoparticles synthesized in ionic liquids by the sputter deposition technique. <i>CrystEngComm</i> , 2012 , 14, 4922 | 3.3 | 55 |
| 123 | Tunable photoluminescence from the visible to near-infrared wavelength region of non-stoichiometric AgInS ₂ nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12851 | | 116 |
| 122 | Introduction of Ionic Liquid to Vacuum Conditions for Development of Material Productions and Analyses. <i>Electrochemistry</i> , 2012 , 80, 498-503 | 1.2 | 5 |

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| 121 | Plasmon-Enhanced Photocatalytic Activity of Cadmium Sulfide Nanoparticle Immobilized on Silica-Coated Gold Particles. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2057-2062 | 6.4 | 163 |
| 120 | Fabrication of Nanoframe Structures by Site-selective Assembly of Gold Nanoparticles on Silver Cubes in an Ionic Liquid. <i>Chemistry Letters</i> , 2011 , 40, 84-86 | 1.7 | 14 |
| 119 | Nanoscale Laser Processing of Hollow Silica Microbeads Assisted by Surface Plasmon Resonance of Gold Particles. <i>Chemistry Letters</i> , 2011 , 40, 1411-1413 | 1.7 | 1 |
| 118 | Enhanced Photocurrent Generation in Layer-by-Layer-Assembled CdS Nanoparticle/Titania Nanosheet Multilayer Films. <i>Electrochemistry</i> , 2011 , 79, 776-778 | 1.2 | 3 |
| 117 | One-Pot Synthesis of Water-Soluble Nanoparticles of ZnS-AgInS ₂ Solid Solution with Controllable Photoluminescence. <i>Electrochemistry</i> , 2011 , 79, 790-792 | 1.2 | 6 |
| 116 | Long Term Optical Properties of ZnS-AgInS ₂ and AgInS ₂ -AgGaS ₂ Solid-Solution Semiconductor Nanoparticles Dispersed in Polymer Matrices. <i>Electrochemistry</i> , 2011 , 79, 813-816 | 1.2 | 4 |
| 115 | Photoinduced electron transfer between the anionic porphyrins and viologens in titania nanosheets and monodisperse mesoporous silica hybrid films. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 931-5 | 9.5 | 33 |
| 114 | Modulating the immobilization process of Au nanoparticles on TiO ₂ (110) by electrostatic interaction between the surface and ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 13585-93 ⁶ | 3.6 | 11 |
| 113 | Surface-plasmon-enhanced photocurrent generation of CdTe nanoparticle/titania nanosheet composite layers on Au particulate films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011 , 221, 244-249 | 4.7 | 7 |
| 112 | Modification of excimer emission of perylene dye thin films by single silver nanocubes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011 , 221, 194-198 | 4.7 | 4 |
| 111 | Carbon Composite with Pt Nanoparticles Prepared by Room-Temperature Ionic Liquid-Sputtering Method. <i>ECS Transactions</i> , 2010 , 33, 127-133 | 1 | 6 |
| 110 | Preparation of Luminescent AgInS ₂ -AgGaS ₂ Solid Solution Nanoparticles and Their Optical Properties. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3283-3287 | 6.4 | 65 |
| 109 | Nanosize-Controlled Syntheses of Indium Metal Particles and Hollow Indium Oxide Particles via the Sputter Deposition Technique in Ionic Liquids. <i>Chemistry of Materials</i> , 2010 , 22, 5209-5215 | 9.6 | 54 |
| 108 | Room-Temperature Ionic Liquid. A New Medium for Material Production and Analyses under Vacuum Conditions. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3177-3188 | 6.4 | 136 |
| 107 | Preparation and photoelectrochemical properties of densely immobilized Cu ₂ ZnSnS ₄ nanoparticle films. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5319 | | 132 |
| 106 | Remarkable photoluminescence enhancement of ZnS-AgInS ₂ solid solution nanoparticles by post-synthesis treatment. <i>Chemical Communications</i> , 2010 , 46, 2082-4 | 5.8 | 136 |
| 105 | Catalytic activity and regeneration property of a Pd nanoparticle encapsulated in a hollow porous carbon sphere for aerobic alcohol oxidation. <i>Langmuir</i> , 2010 , 26, 17720-5 | 4 | 104 |
| 104 | Size control and immobilization of gold nanoparticles stabilized in an ionic liquid on glass substrates for plasmonic applications. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1804-11 | 3.6 | 52 |

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| 103 | Studies on Reaction Conditions for Size-selective Photoetching of Cadmium Telluride Nanocrystals. <i>Electrochemistry</i> , 2010 , 78, 170-174 | 1.2 | |
| 102 | Fabrication of Transition Metal Oxide Nanoparticles Highly Dispersed in Ionic Liquids by Sputter Deposition. <i>Chemistry Letters</i> , 2010 , 39, 1072-1074 | 1.7 | 17 |
| 101 | Palladium Nanoparticles in Ionic Liquid by Sputter Deposition as Catalysts for SuzukiMiyaura Coupling in Water. <i>Chemistry Letters</i> , 2010 , 39, 1069-1071 | 1.7 | 36 |
| 100 | Immobilization of ZnS/AgInS ₂ Solid Solution Nanoparticles on ZnO Rod Array Electrodes and Their Photoresponse with Visible Light Irradiation. <i>Chemistry Letters</i> , 2010 , 39, 619-621 | 1.7 | 9 |
| 99 | Sensing of protein adsorption with a porous bulk composite comprising silver nanoparticles deposited on hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 1225-32 | 4.5 | 14 |
| 98 | New frontiers in materials science opened by ionic liquids. <i>Advanced Materials</i> , 2010 , 22, 1196-221 | 24 | 718 |
| 97 | Oxygen reduction catalytic ability of platinum nanoparticles prepared by room-temperature ionic liquid-sputtering method. <i>Journal of Power Sources</i> , 2010 , 195, 5980-5985 | 8.9 | 54 |
| 96 | Photocatalytic electron flow through the interface of titania nanosheets and mesoporous silica hybrid films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009 , 207, 135-143 | 4.7 | 6 |
| 95 | Tuning of the fluorescence wavelength of CdTe quantum dots with 2 nm resolution by size-selective photoetching. <i>Nanotechnology</i> , 2009 , 20, 215302 | 3.4 | 34 |
| 94 | Small-Angle X-ray Scattering Study of Au Nanoparticles Dispersed in the Ionic Liquids 1-Alkyl-3-methylimidazolium Tetrafluoroborate. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3917-3922 | 3.8 | 78 |
| 93 | Stacked-structure-dependent photoelectrochemical properties of CdS nanoparticle/layered double hydroxide (LDH) nanosheet multilayer films prepared by layer-by-layer accumulation. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 5369-76 | 3.6 | 45 |
| 92 | Systematic Studies on Emission Quenching of Cadmium Telluride Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21621-21628 | 3.8 | 23 |
| 91 | Electrochemical deposition of gold frame structure on silver nanocubes. <i>Chemical Communications</i> , 2009 , 2917-9 | 5.8 | 30 |
| 90 | Emission quench of water-soluble ZnS-AgInS ₂ solid solution nanocrystals and its application to chemosensors. <i>Chemical Communications</i> , 2009 , 7485-7 | 5.8 | 40 |
| 89 | A Facile Synthesis of AuAg Alloy Nanoparticles Using a Chemical Reaction Induced by Sputter Deposition of Metal onto Ionic Liquids. <i>Electrochemistry</i> , 2009 , 77, 636-638 | 1.2 | 45 |
| 88 | Electrocatalytic Activity of Platinum Nanoparticles Synthesized by Room-Temperature Ionic Liquid-Sputtering Method. <i>Electrochemistry</i> , 2009 , 77, 693-695 | 1.2 | 45 |
| 87 | Hybridization of silver nanoparticles on hydroxyapatite in an aqueous solution. <i>Journal of the Ceramic Society of Japan</i> , 2009 , 117, 294-298 | 1 | 7 |
| 86 | Thermally Induced Self-assembly of Gold Nanoparticles Sputter-deposited in Ionic Liquids on Highly Ordered Pyrolytic Graphite Surfaces. <i>Chemistry Letters</i> , 2009 , 38, 330-331 | 1.7 | 42 |

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| 85 | Photochemical shape control of cadmium sulfide nanorods coated with an amorphous silica thin layer. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 506-13 | 1.3 | 11 |
| 84 | Photo-induced electron migrations in the nano-cavities of mesoporous silica sensitized by a cationic porphyrin dye. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 495-500 | 1.3 | 8 |
| 83 | Single-step synthesis of gold-silver alloy nanoparticles in ionic liquids by a sputter deposition technique. <i>Chemical Communications</i> , 2008 , 691-3 | 5.8 | 174 |
| 82 | Self-assembly of ionic liquid (BMI-PF6)-stabilized gold nanoparticles on a silicon surface: chemical and structural aspects. <i>Langmuir</i> , 2008 , 24, 7785-92 | 4 | 67 |
| 81 | Quantum dot sensitized solar cells 2008 , | | 1 |
| 80 | Photoluminescence Enhancement of ZnS/AgInS ₂ Solid Solution Nanoparticles Layer-by-layer-assembled in Inorganic Multilayer Thin Films. <i>Chemistry Letters</i> , 2008 , 37, 700-701 | 1.7 | 16 |
| 79 | Efficient Reductive Alkylation of Aniline with Acetone over Pt Nanoparticles Encapsulated in Hollow Porous Carbon. <i>Chemistry Letters</i> , 2008 , 37, 948-949 | 1.7 | 5 |
| 78 | ?????????in situ?????????????. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2008 , 59, 801-805 | | 2 |
| 77 | Development of in situ electrochemical scanning electron microscopy with ionic liquids as electrolytes. <i>ChemPhysChem</i> , 2008 , 9, 763-7 | 3.2 | 61 |
| 76 | Rhodium Nanoparticle Encapsulated in a Porous Carbon Shell as an Active Heterogeneous Catalyst for Aromatic Hydrogenation. <i>Advanced Functional Materials</i> , 2008 , 18, 2190-2196 | 15.6 | 105 |
| 75 | Development of in situ scanning electron microscope system for real time observation of metal deposition from ionic liquid. <i>Electrochemistry Communications</i> , 2008 , 10, 1901-1904 | 5.1 | 61 |
| 74 | Development of new techniques for scanning electron microscope observation using ionic liquid. <i>Electrochimica Acta</i> , 2008 , 53, 6228-6234 | 6.7 | 108 |
| 73 | Size-selective photocatalytic reactions by titanium(IV) oxide coated with a hollow silica shell in aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 6319-26 | 3.6 | 34 |
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