

# Tetsuya Tsuda

## List of Publications by Year in descending order

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Version: 2024-02-01

156  
papers

5,400  
citations

81900

39  
h-index

88630

70  
g-index

161  
all docs

161  
docs citations

161  
times ranked

5781  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Aluminum metal anode rechargeable batteries with sulfur <sup>2</sup> -carbon composite cathodes and inorganic chloroaluminate ionic liquid. <i>Chemical Communications</i> , 2022, 58, 1518-1521.               | 4.1  | 5         |
| 2  | Impact of sp <sup>2</sup> carbon material species on Pt nanoparticle-based electrocatalysts produced by one-pot pyrolysis methods with ionic liquids. <i>RSC Advances</i> , 2022, 12, 14268-14277.              | 3.6  | 1         |
| 3  | (Invited) Aluminum Electrodeposition in AlCl <sub>3</sub> -1-Ethyl-3-Methylimidazolium Chloride-Urea Melts. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1198-1198.  | 0.0  | 0         |
| 4  | Aluminum Electrorefining Using Ionic Liquids. <i>Denki Kagaku</i> , 2021, 89, 27-31.  | 0.0  | 0         |
| 5  | In Situ Monitoring of Lithium Metal Anodes and Their Solid Electrolyte Interphases by Transmission Electron Microscopy. <i>Small Structures</i> , 2021, 2, 2100018.   | 12.0 | 27        |
| 6  | Influence of Operating Conditions on Deposition Rate and Smoothness of Electrolytic Aluminum Foil Using Chloroaluminate Ionic Liquids. <i>Journal of the Electrochemical Society</i> , 2021, 168, 056510.       | 2.9  | 3         |
| 7  | In Situ Monitoring of Lithium Metal Anodes and Their Solid Electrolyte Interphases by Transmission Electron Microscopy. <i>Small Structures</i> , 2021, 2, 2170016.   | 12.0 | 0         |
| 8  | Innovative Approach for Preparing a CNT-Supported Pt Nanoparticle Functional Electrocatalyst Using Protic Ionic Liquids. <i>ACS Applied Energy Materials</i> , 2021, 4, 7298-7308.                              | 5.1  | 7         |
| 9  | Aluminum and Zinc Metal Anode Batteries. , 2021, , 565-580.   |      | 2         |
| 10 | Influence of Pulse Electrolytic Conditions on Properties of Electrolytic Aluminum Foil Using Chloroaluminate Ionic Liquids. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 723-723.                            | 0.0  | 1         |
| 11 | One-Pot Synthesis of PtNi Alloy Nanoparticle-Supported Multiwalled Carbon Nanotubes in an Ionic Liquid Using a Staircase Heating Process. <i>ACS Omega</i> , 2020, 5, 25687-25694.                              | 3.5  | 7         |
| 12 | Inorganic AlCl <sub>3</sub> -alkali metal thiocyanate ionic liquids as electrolytes for electrochemical Al technologies. <i>Chemical Communications</i> , 2020, 56, 15297-15300.                                | 4.1  | 6         |
| 13 | Lithium-ion battery performance enhanced by the combination of Si thin flake anodes and binary ionic liquid systems. <i>Materials Advances</i> , 2020, 1, 625-631.  | 5.4  | 9         |
| 14 | Electron microscopy using ionic liquids for life and materials sciences. <i>Microscopy (Oxford)</i> , 2020, 1, 1-9.   | 1.9  | 9         |
| 15 | Short-time and ultrasensitive electroanalytical technique for electrode active materials used in secondary batteries. <i>Journal of Power Sources</i> , 2020, 459, 228041.                                      | 7.8  | 0         |
| 16 | Investigation on Operating Conditions Influencing the Aluminum Electrolysis Using Chloroaluminate Ionic Liquids. <i>ECS Transactions</i> , 2020, 98, 223-230.   | 0.5  | 3         |
| 17 | Aluminum Electrodeposition in Molten Salts/Ionic Liquids. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2020, 71, 729-733.  | 0.2  | 0         |
| 18 | PtNi Alloy Nanoparticle-Supported MWCNTs Produced in a Nickel(II) Oxalate Dihydrate Dispersed Ionic Liquid with Pt(acac) <sub>2</sub> by One-Pot Pyrolysis Method. <i>Electrochemistry</i> , 2020, 88, 353-355. | 1.4  | 1         |

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|----|---|-----|-----------|
| 19 | Investigation on Operating Conditions Influencing the Aluminum Electrolysis Using Chloroaluminate Ionic Liquids. ECS Meeting Abstracts, 2020, MA2020-02, 3002-3002.   | 0.0 | 1         |
| 20 | One-Pot Preparation of Pt Nanoparticle-Supported Graphene Nanoplatelets By Ionic Liquid-Pyrolysis Method. ECS Meeting Abstracts, 2020, MA2020-02, 2960-2960.  | 0.0 | 0         |
| 21 | Sulfur-Carbon Composite Cathodes for Aluminum-Anion Rechargeable Battery with an Inorganic $\text{AlCl}_3$ - $\text{NaCl}$ - $\text{KCl}$ Ionic Liquid. ECS Meeting Abstracts, 2020, MA2020-02, 2952-2952.                      | 0.0 | 0         |
| 22 | Epoxy-Containing Ionic Liquids with Tunable Functionality. <i>Molecules</i> , 2019, 24, 2591.   | 3.8 | 1         |
| 23 | The Capacitor Properties of KOH Activated Porous Carbon Beads Derived from Polyacrylonitrile. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 832-839.   | 3.2 | 4         |
| 24 | In-situ scanning electron microscope observation of electrode reactions related to battery material. <i>Electrochimica Acta</i> , 2019, 319, 158-163.   | 5.2 | 15        |
| 25 | Platinum and PtNi Nanoparticle-Supported Multiwalled Carbon Nanotube Electrocatalysts Prepared by One-Pot Pyrolytic Synthesis with an Ionic Liquid. <i>ACS Applied Energy Materials</i> , 2019, 2, 4865-4872.                   | 5.1 | 12        |
| 26 | Development of new production processes for aluminum. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2019, 69, 15-21.   | 0.4 | 2         |
| 27 | Electric Double Layer Capacitors Based on Polyacrylonitrile-derived Porous Carbon Beads: Effects of Particle Size and Composite. <i>Electrochemistry</i> , 2019, 87, 119-122.   | 1.4 | 2         |
| 28 | Use of ionic liquid for X-ray micro-CT specimen preparation of imbibed seeds. <i>Microscopy (Oxford)</i> , 2019, 15, 3.   | 1.5 | 3         |
| 29 | (Invited) Surface Finishing with Chloroaluminate Ionic Liquids. ECS Meeting Abstracts, 2019, , .  | 0.0 | 0         |
| 30 | Electrodeposition of Aluminum Nanoplatelet from $\text{AlCl}_3$ -1-Ethyl-3-Methylimidazolium Chloride-Urea Mixtures. ECS Meeting Abstracts, 2019, , .   | 0.0 | 0         |
| 31 | Influence of Electrolytic Condition on Surface Smoothness of Electrolytic Aluminum Foil from $\text{AlCl}_3$ -EMIC Melt. ECS Meeting Abstracts, 2019, MA2019-02, 961-961.   | 0.0 | 1         |
| 32 | Graphene Nanoplatelet Composite Cathode for a Chloroaluminate Ionic Liquid-Based Aluminum Secondary Battery. <i>ACS Applied Energy Materials</i> , 2018, 1, 2269-2274.  | 5.1 | 41        |
| 33 | Rechargeable aluminum batteries utilizing a chloroaluminate inorganic ionic liquid electrolyte. <i>Chemical Communications</i> , 2018, 54, 4164-4167.   | 4.1 | 33        |
| 34 | Electrocatalyst: Pt Nanoparticle-Supported Carbon Electrocatalysts Functionalized with a Protic Ionic Liquid and Organic Salt ( <i>Adv. Mater. Interfaces</i> 3/2018). <i>Advanced Materials Interfaces</i> , 2018, 5, 1870010. | 3.7 | 2         |
| 35 | Physicochemical Properties and Electrochemical Behavior of Systematically Functionalized Aryltrifluoroborate-Based Room-Temperature Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3286-3294.               | 3.1 | 11        |
| 36 | Graphene Nanoplatelet-Polysulfone Composite Cathodes for High-Power Aluminum Rechargeable Batteries. <i>Electrochemistry</i> , 2018, 86, 72-76.   | 1.4 | 11        |

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|----|--|------|-----------|
| 37 | Pt Nanoparticle-Supported Carbon Electrocatalysts Functionalized with a Protic Ionic Liquid and Organic Salt. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701123.   | 3.7  | 18        |
| 38 | Operando Observation of Vacuum and Liquid Interface while Conducting Gold Sputtering onto Ionic Liquid for Preparation of Au Nanoparticles. <i>Electrochemistry</i> , 2018, 86, 223-225.   | 1.4  | 5         |
| 39 | In situ electron microscopy and X-ray photoelectron spectroscopy for high capacity anodes in next-generation ionic liquid-based Li batteries. <i>Electrochimica Acta</i> , 2018, 279, 136-142.   | 5.2  | 20        |
| 40 | Production of Gas-Phase Uranium Fluoroanions Via Solubilization of Uranium Oxides in the [1-Ethyl-3-Methylimidazolium] <sup>+</sup> [F(HF) <sub>2.3</sub> ] <sup>-</sup> Ionic Liquid. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1963-1970. | 2.8  | 7         |
| 41 | Platinum Nanoparticle-Supported Electrocatalysts Functionalized by Carbonization of Protic Ionic Liquid and Organic Salts. <i>ACS Applied Energy Materials</i> , 2018, 1, 3030-3034.   | 5.1  | 13        |
| 42 | Ionic liquid-based transmission electron microscopy for herpes simplex virus type 1. <i>Biophysical Reviews</i> , 2018, 10, 927-929.   | 3.2  | 9         |
| 43 | 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.  | 10.3 | 19        |
| 44 | Review "Electrochemical Surface Finishing and Energy Storage Technology with Room-Temperature Haloaluminate Ionic Liquids and Mixtures. <i>Journal of the Electrochemical Society</i> , 2017, 164, H5007-H5017.  | 2.9  | 59        |
| 45 | SEM as a Facile Tool for Real-Time Monitoring of Microcrystal Growth during Electrodeposition: The Merit of Ionic Liquids. <i>Analytical Chemistry</i> , 2017, 89, 7249-7254.  | 6.5  | 10        |
| 46 | Physicochemical properties of phenyltrifluoroborate-based room temperature ionic liquids. <i>Journal of Molecular Liquids</i> , 2017, 246, 236-243.  | 4.9  | 14        |
| 47 | Visualization of Si Anode Reactions in Coin-Type Cells via Operando Scanning Electron Microscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 35511-35515.  | 8.0  | 26        |
| 48 | Graphene-Coated Activated Carbon Fiber Cloth Positive Electrodes for Aluminum Rechargeable Batteries with a Chloroaluminate Room-Temperature Ionic Liquid. <i>Journal of the Electrochemical Society</i> , 2017, 164, A2468-A2473.   | 2.9  | 16        |
| 49 | Boron and nitrogen co-doped ordered microporous carbons with high surface areas. <i>Chemical Communications</i> , 2017, 53, 13348-13351.   | 4.1  | 21        |
| 50 | In Situ Monitoring of the Anodic Reactions in Secondary Batteries By Transmission Electron Microscopy. <i>ECS Meeting Abstracts</i> , 2017, , .  | 0.0  | 0         |
| 51 | Electroplating of Al-Nb Alloys from the Lewis Acidic Chloroaluminate Ionic Liquid. <i>ECS Meeting Abstracts</i> , 2017, , .  | 0.0  | 0         |
| 52 | Systematic Consideration of Physicochemical Properties on Aryltrifluoroborate-Based Room-Temperature Ionic Liquids. <i>ECS Meeting Abstracts</i> , 2017, , .   | 0.0  | 0         |
| 53 | Highly Durable Carbon-Supported Pt Nanoparticles Electrocatalyst for Oxygen Reduction Prepared Using Protic Ionic Liquids As Adhesive Agent. <i>ECS Meeting Abstracts</i> , 2017, , .  | 0.0  | 0         |
| 54 | Alkali Metal Salts with Designable Aryltrifluoroborate Anions. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9468-9476.  | 2.6  | 8         |

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|----|---|------|-----------|
| 55 | Gate-Tunable Spin-Charge Conversion and the Role of Spin-Orbit Interaction in Graphene. <i>Physical Review Letters</i> , 2016, 116, 166102.   | 7.8  | 70        |
| 56 | 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.   | 10.3 | 43        |
| 57 | In situ Scanning Electron Microscopy of Silicon Anode Reactions in Lithium-Ion Batteries during Charge/Discharge Processes. <i>Scientific Reports</i> , 2016, 6, 36153.   | 3.3  | 65        |
| 58 | Multifunctional electropolymerizable carbazole-based ionic liquids. <i>RSC Advances</i> , 2016, 6, 15735-15744.   | 3.6  | 5         |
| 59 | Polymer gel electrolytes for application in aluminum deposition and rechargeable aluminum ion batteries. <i>Chemical Communications</i> , 2016, 52, 292-295.  | 4.1  | 101       |
| 60 | Fine Patterning of Silver Metal by Electron Beam Irradiation onto Room-temperature Ionic Liquid. <i>Chemistry Letters</i> , 2015, 44, 312-314.  | 1.3  | 8         |
| 61 | Double Layer Capacitance Properties of Monodisperse Carbon Particles with High Porosity Derived from Polyacrylonitrile Synthesized by Dispersion Polymerization. <i>Electrochemistry</i> , 2015, 83, 348-350.   | 1.4  | 6         |
| 62 | Electron Microscope Observation of Soft Materials Using Ionic Liquids. <i>Hyomen Kagaku</i> , 2015, 36, 195-200.  | 0.0  | 0         |
| 63 | Iron Fluoroanions and Their Clusters by Electrospray Ionization of a Fluorinating Ionic Liquid. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1559-1569.   | 2.8  | 3         |
| 64 | Electrodeposition of Al-W-Mn Ternary Alloys from the Lewis Acidic Aluminum Chloride <sup>+</sup> 1-Ethyl-3-methylimidazolium Chloride Ionic Liquid. <i>Journal of the Electrochemical Society</i> , 2015, 162, D405-D411.                               | 2.9  | 10        |
| 65 | An AlCl <sub>3</sub> based ionic liquid with a neutral substituted pyridine ligand for electrochemical deposition of aluminum. <i>Electrochimica Acta</i> , 2015, 160, 82-88.   | 5.2  | 108       |
| 66 | Simple observation of <i>Streptococcus mutans</i> biofilm by scanning electron microscopy using ionic liquids. <i>AMB Express</i> , 2015, 5, 6.   | 3.0  | 60        |
| 67 | <i>In situ</i> SEM observation of the Si negative electrode reaction in an ionic-liquid-based lithium-ion secondary battery. <i>Microscopy (Oxford, England)</i> , 2015, 64, 159-168.   | 1.5  | 37        |
| 68 | Direct Observation of Short-Range Structural Coherence During a Charge Transfer Induced Spin Transition in a CoFe Prussian Blue Analogue by Transmission Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 14686-14693. | 13.7 | 20        |
| 69 | Ultrathin oxide shell coating of metal nanoparticles using ionic liquid/metal sputtering. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6177-6186.   | 10.3 | 37        |
| 70 | Interaction between living cells and polymeric particles: potential application of ionic liquid for evaluating the cellular uptake of biodegradable polymeric particles composed of poly(amino acid). <i>Polymer Journal</i> , 2015, 47, 631-638.       | 2.7  | 6         |
| 71 | Polymerization of Room-Temperature Ionic Liquid Monomers by Electron Beam Irradiation with the Aim of Fabricating Three-Dimensional Micropolymer/Nanopolymer Structures. <i>Langmuir</i> , 2015, 31, 4281-4289.   | 3.5  | 33        |
| 72 | Preparation of Pt Nanoparticle-Adsorbed Carbon Nanotubes Using Room Temperature Ionic Liquid and Their Use as Electrocatalyst for Oxygen Reduction. <i>ECS Transactions</i> , 2014, 64, 493-498.  | 0.5  | 1         |

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|----|--|------|-----------|
| 73 | Development of an electrochemical cell for <i>in situ</i> transmission electron microscopy observation. <i>Microscopy</i> (Oxford, England), 2014, 63, 481-486.  | 1.5  | 11        |
| 74 | Generation of gas-phase zirconium fluoroanions by electrospray of an ionic liquid. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1233-1242.   | 1.5  | 3         |
| 75 | Synthesis of Novel Ionic Liquids with Aromatic Trifluoroborate Anions. <i>ECS Transactions</i> , 2014, 64, 83-93.  | 0.5  | 1         |
| 76 | The Structure of Electrodeposited Aluminum Alloys from Chloroaluminate Ionic Liquids: Let's Not Ignore the Temperature. <i>ECS Transactions</i> , 2014, 64, 535-547.   | 0.5  | 4         |
| 77 | Electrodeposition of Al-W-Mn Alloy from Lewis Acidic AlCl <sub>3</sub> -1-Ethyl-3-Methylimidazolium Chloride Ionic Liquid. <i>ECS Transactions</i> , 2014, 64, 563-574.  | 0.5  | 2         |
| 78 | Electrochemical Energy Storage Device with a Lewis Acidic AlBr <sub>3</sub> -1-Ethyl-3-methylimidazolium Bromide Room-Temperature Ionic Liquid. <i>Journal of the Electrochemical Society</i> , 2014, 161, A908-A914.  | 2.9  | 19        |
| 79 | Electrodeposition of Al-W Alloys in the Lewis Acidic Aluminum Chloride-1-Ethyl-3-Methylimidazolium Chloride Ionic Liquid. <i>Journal of the Electrochemical Society</i> , 2014, 161, D405-D412.  | 2.9  | 18        |
| 80 | An ionic liquid-Fe <sub>3</sub> O <sub>4</sub> nanoparticles-graphite composite electrode used for nonenzymatic electrochemical determination of hydrogen peroxide. <i>Journal of Electroanalytical Chemistry</i> , 2014, 729, 109-115.                          | 3.8  | 14        |
| 81 | Atomic Resolution Imaging of Gold Nanoparticle Generation and Growth in Ionic Liquids. <i>Journal of the American Chemical Society</i> , 2014, 136, 13789-13797.   | 13.7 | 61        |
| 82 | Three-dimensional micro/nano-scale structure fabricated by combination of non-volatile polymerizable RTIL and FIB irradiation. <i>Scientific Reports</i> , 2014, 4, 3722.  | 3.3  | 24        |
| 83 | SEM Observation of Hydrous Superabsorbent Polymer Pretreated with Room-Temperature Ionic Liquids. <i>PLoS ONE</i> , 2014, 9, e91193.   | 2.5  | 21        |
| 84 | In situ SEM study of a lithium deposition and dissolution mechanism in a bulk-type solid-state cell with a Li <sub>2</sub> S-P <sub>2</sub> S <sub>5</sub> solid electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18600.                      | 2.8  | 233       |
| 85 | Electrodeposition of aluminum-hafnium alloy from the Lewis acidic aluminum chloride-1-ethyl-3-methylimidazolium chloride molten salt. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 409-417.  | 2.5  | 18        |
| 86 | Physicochemical properties of 1-alkyl-3-methylimidazolium chloride-urea melts. <i>Electrochimica Acta</i> , 2013, 100, 285-292.  | 5.2  | 14        |
| 87 | Fluorohydrogenate Cluster Ions in the Gas Phase: Electrospray Ionization Mass Spectrometry of the [1-Ethyl-3-methylimidazolium] <sup>+</sup> [F(HF) <sub>2.3</sub> ] <sup>-</sup> Ionic Liquid. <i>Journal of Physical Chemistry A</i> , 2013, 117, 14191-14199. | 2.5  | 8         |
| 88 | Physicochemical Properties of Tri- <i>n</i> -butylalkylphosphonium Cation-Based Room-Temperature Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15051-15059.   | 2.6  | 32        |
| 89 | Basolateral Mg <sup>2+</sup> Extrusion via CNNM4 Mediates Transcellular Mg <sup>2+</sup> Transport across Epithelia: A Mouse Model. <i>PLoS Genetics</i> , 2013, 9, e1003983.  | 3.5  | 130       |
| 90 | Al-W Alloy Deposition from Lewis Acidic Room-Temperature Chloroaluminate Ionic Liquid. <i>ECS Transactions</i> , 2013, 50, 239-250.  | 0.5  | 12        |

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|-----|--|------|-----------|
| 91  | Improving Purity and Process Volume During Direct Electrolytic Reduction of Solid SiO <sub>2</sub> in Molten CaCl <sub>2</sub> for the Production of Solar-Grade Silicon. <i>Energy Technology</i> , 2013, 1, 245-252.   | 3.8  | 26        |
| 92  | Simple Observation of the Interaction between Nanoparticles and Cells by Scanning Electron Microscopy Employing Ionic Liquid. <i>Bulletin of the Chemical Society of Japan</i> , 2013, 86, 153-158.                      | 3.2  | 8         |
| 93  | The Effect of Hydrophilic Ionic Liquids 1-Ethyl-3-Methylimidazolium Lactate and Choline Lactate on Lipid Vesicle Fusion. <i>PLoS ONE</i> , 2013, 8, e85467.  | 2.5  | 25        |
| 94  | Ambipolar transport in bulk crystals of a topological insulator by gating with ionic liquid. <i>Physical Review B</i> , 2012, 86, .  | 3.2  | 29        |
| 95  | Observation of Electrochemical Reaction and Biological Specimen by Novel Analytical Technique Combined with Room-Temperature Ionic Liquid and Scanning Electron Microscope. <i>Electrochemistry</i> , 2012, 80, 308-311. | 1.4  | 21        |
| 96  | Introduction of Ionic Liquid to Vacuum Conditions for Development of Material Productions and Analyses. <i>Electrochemistry</i> , 2012, 80, 498-503.   | 1.4  | 5         |
| 97  | Platinum nanoparticle immobilization onto carbon nanotubes using Pt-sputtered room-temperature ionic liquid. <i>RSC Advances</i> , 2012, 2, 8262.  | 3.6  | 59        |
| 98  | Preparation of gold nanoparticles using reactive species produced in room-temperature ionic liquids by accelerated electron beam irradiation. <i>RSC Advances</i> , 2012, 2, 11801.                                      | 3.6  | 15        |
| 99  | Various metal nanoparticles produced by accelerated electron beam irradiation of room-temperature ionic liquid. <i>Chemical Communications</i> , 2012, 48, 1925.   | 4.1  | 39        |
| 100 | Gold Nanoparticle Assisted Self-Assembly and Enhancement of Charge Carrier Mobilities of a Conjugated Polymer. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17343-17350.  | 3.1  | 19        |
| 101 | Metal-Ion Diffusion in Ionic Liquid Studied by Electrochemical Scanning Electron Microscopy with X-ray Fluorescence Spectrometry. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20902-20907.                       | 3.1  | 20        |
| 102 | Size and shape of Au nanoparticles formed in ionic liquids by electron beam irradiation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14823.   | 2.8  | 39        |
| 103 | In situ Electron Microscope Observation of Electrochemical Reactions using Room Temperature Ionic Liquids as Electrolytes. <i>Review of Polarography</i> , 2011, 57, 93-99.  | 0.1  | 0         |
| 104 | Design, Synthesis, and Electrochemistry of Room-Temperature Ionic Liquids Functionalized with Propylene Carbonate. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1310-1313.                               | 13.8 | 67        |
| 105 | Nonvolatile RTIL-Based Artificial Muscle: Actuation Mechanism Identified by In Situ EDX Analysis. <i>Chemistry - A European Journal</i> , 2011, 17, 11122-11126.   | 3.3  | 22        |
| 106 | SEM Observation of Wet Biological Specimens Pretreated with Room-Temperature Ionic Liquid. <i>ChemBioChem</i> , 2011, 12, 2547-2550.   | 2.6  | 75        |
| 107 | Scanning Electron Microscope Observation of Concentration Profile in Ionic Liquid Caused by Electrochemical Reaction. <i>ECS Transactions</i> , 2010, 25, 15-22.   | 0.5  | 0         |
| 108 | Electrochemical Synthesis of Poly(2,2,5-trimethyl-1,3-dioxane) in Room-Temperature Ionic Liquid. <i>Electrochemistry</i> , 2010, 78, 549-552.  | 0.5  | 0         |

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|-----|--|------|-----------|
| 109 | New Frontiers in Materials Science Opened by Ionic Liquids. <i>Advanced Materials</i> , 2010, 22, 1196-1221.   | 21.0 | 803       |
| 110 | Nanoparticle-Dispersed Liquid Crystals Fabricated by Sputter Doping. <i>Advanced Materials</i> , 2010, 22, 622-626.  | 21.0 | 81        |
| 111 | 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.  | 7.8  | 58        |
| 112 | Fundamental Research on Biomedical Application of Al-Mo-Ti Alloy Electrodeposited from AlCl <sub>3</sub> -1-Ethyl-3-methylimidazolium Chloride Melt. <i>Transactions of the Materials Research Society of Japan</i> , 2010, 35, 43-46. | 0.2  | 2         |
| 113 | Carbon Composite with Pt Nanoparticles Prepared by Room-Temperature Ionic Liquid-Sputtering Method. <i>ECS Transactions</i> , 2010, 33, 127-133.   | 0.5  | 6         |
| 114 | Irradiation-Induced Metal Nanoparticles in Room-Temperature Ionic Liquid. <i>ECS Transactions</i> , 2010, 33, 543-554.   | 0.5  | 4         |
| 115 | Immobilization of Pd on Nanosilica Dendrimer as SILC: Highly Active and Sustainable Cluster Catalyst for Suzuki-Miyaura Reaction. <i>Synlett</i> , 2010, 1990-1996.  | 1.8  | 36        |
| 116 | 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.   | 4.6  | 144       |
| 117 | Electrochemistry of Copper(I) Oxide in the 66.7/33.3 mol % Urea-Choline Chloride Room-Temperature Eutectic Melt. <i>Journal of the Electrochemical Society</i> , 2010, 157, F96.   | 2.9  | 54        |
| 118 | Various in situ SEM Techniques for Observing Electrode Surface Reactions in Ionic Liquid. <i>Hyomen Kagaku</i> , 2009, 30, 368-373.  | 0.0  | 3         |
| 119 | Electrolytic Reduction of Solid SiO <sub>2</sub> in Molten CaCl <sub>2</sub> for the Production of Solar-grade Silicon. <i>ECS Transactions</i> , 2009, 16, 239-245.   | 0.5  | 9         |
| 120 | Electroanalytical Chemistry in Polymer-RTIL Composite with an In Situ Electrochemical SEM System. <i>ECS Transactions</i> , 2009, 25, 73-84.   | 0.5  | 0         |
| 121 | Gold nanoparticles prepared with a room-temperature ionic liquid-radiation irradiation method. <i>Chemical Communications</i> , 2009, , 6792.  | 4.1  | 63        |
| 122 | Electrochemistry of Room-Temperature Ionic Liquids and Melts. <i>Modern Aspects of Electrochemistry</i> , 2009, , 63-174.  | 0.2  | 43        |
| 123 | Electrochemical Behavior of Copper(I) Oxide in Urea-Choline Chloride Room-Temperature Melts. <i>ECS Transactions</i> , 2009, 16, 529-540.  | 0.5  | 13        |
| 124 | Nanoparticle-Stabilized Cholesteric Blue Phases. <i>Applied Physics Express</i> , 2009, 2, 121501.   | 2.4  | 230       |
| 125 | Electrocatalytic Activity of Platinum Nanoparticles Synthesized by Room-Temperature Ionic Liquid-Sputtering Method. <i>Electrochemistry</i> , 2009, 77, 693-695.   | 1.4  | 51        |
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