

# Susumu Kuwabata

## List of Publications by Year in descending order

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343  
papers

14,311  
citations

18465

62  
h-index

30058

103  
g-index

352  
all docs

352  
docs citations

352  
times ranked

13476  
citing authors

#	ARTICLE	IF	CITATIONS
1	New Frontiers in Materials Science Opened by Ionic Liquids. <i>Advanced Materials</i> , 2010, 22, 1196-1221.	11.1	803
2	Sputter deposition onto ionic liquids: Simple and clean synthesis of highly dispersed ultrafine metal nanoparticles. <i>Applied Physics Letters</i> , 2006, 89, 243117.	1.5	352
3	Facile Synthesis of ZnS <sup>2+</sup> AgInS <sub>2</sub> Solid Solution Nanoparticles for a Color-Adjustable Luminophore. <i>Journal of the American Chemical Society</i> , 2007, 129, 12388-12389.	6.6	338
4	Ligand-Free Platinum Nanoparticles Encapsulated in a Hollow Porous Carbon Shell as a Highly Active Heterogeneous Hydrogenation Catalyst. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7063-7066.	7.2	319
5	Single-Wall Carbon Nanotubes Supported Platinum Nanoparticles with Improved Electrocatalytic Activity for Oxygen Reduction Reaction. <i>Langmuir</i> , 2006, 22, 2392-2396.	1.6	298
6	Effect of Inert Supports for Titanium Dioxide Loading on Enhancement of Photodecomposition Rate of Gaseous Propionaldehyde. <i>The Journal of Physical Chemistry</i> , 1995, 99, 9986-9991.	2.9	281
7	Effects of Adsorbents Used as Supports for Titanium Dioxide Loading on Photocatalytic Degradation of Propylamide. <i>Environmental Science &amp; Technology</i> , 1996, 30, 1275-1281.	4.6	275
8	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 <sup>+</sup> P <sub>2</sub> S <sub>5</sub> solid electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18600.	1.3	233
9	Nanoparticle-Stabilized Cholesteric Blue Phases. <i>Applied Physics Express</i> , 2009, 2, 121501.	1.1	230
10	Template Synthesis of Polypyrrole-Coated Spinel LiMn <sub>2</sub> O <sub>4</sub> Nanotubules and Their Properties as Cathode Active Materials for Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 1997, 144, 1923-1927.	1.3	201
11	Single-step synthesis of gold-silver alloy nanoparticles in ionic liquids by a sputter deposition technique. <i>Chemical Communications</i> , 2008, , 691-693.	2.2	198
12	Enhancement of Light-Energy Conversion Efficiency by Multi-Porphyrin Arrays of Porphyrin-Peptide Oligomers with Fullerene Clusters. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19-23.	1.2	175
13	Observation of Ionic Liquid by Scanning Electron Microscope. <i>Chemistry Letters</i> , 2006, 35, 600-601.	0.7	170
14	Highly Dispersed Pt Catalysts on Single-Walled Carbon Nanotubes and Their Role in Methanol Oxidation. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16185-16188.	1.2	165
15	Remarkable photoluminescence enhancement of ZnS-AgInS <sub>2</sub> solid solution nanoparticles by post-synthesis treatment. <i>Chemical Communications</i> , 2010, 46, 2082.	2.2	149
16	CdS Quantum Dots Sensitized TiO <sub>2</sub> Sandwich Type Photoelectrochemical Solar Cells. <i>Chemistry Letters</i> , 2007, 36, 88-89.	0.7	147
17	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.	2.1	144
18	Preparation and photoelectrochemical properties of densely immobilized Cu <sub>2</sub> ZnSnS <sub>4</sub> nanoparticle films. <i>Journal of Materials Chemistry</i> , 2010, 20, 5319.	6.7	138

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19	Charge/discharge Characteristics of Polypyrrole Films Containing Incorporated Anthraquinone-1-sulfonate. <i>Journal of the Electrochemical Society</i> , 1992, 139, 28-32.	1.3	136
20	Tunable photoluminescence from the visible to near-infrared wavelength region of non-stoichiometric AgInS <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry</i> , 2012, 22, 12851.	6.7	135
21	Fabrication of CdS Nanoparticle Chains along DNA Double Strands. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8799-8803.	1.2	134
22	Electrochemical conversion of carbon dioxide to methanol with the assistance of formate dehydrogenase and methanol dehydrogenase as biocatalysts. <i>Journal of the American Chemical Society</i> , 1994, 116, 5437-5443.	6.6	133
23	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.	1.5	130
24	Copolymerization of Pyrrole and Thiophene by Electrochemical Oxidation and Electrochemical Behavior of the Resulting Copolymers. <i>Journal of the Electrochemical Society</i> , 1988, 135, 1691-1695.	1.3	126
25	Charge/discharge properties of composites of LiMn <sub>2</sub> O <sub>4</sub> and polypyrrole as positive electrode materials for 4 V class of rechargeable Li batteries. <i>Electrochimica Acta</i> , 1999, 44, 4593-4600.	2.6	126
26	Electrochemical Synthesis of Composite Films of Manganese Dioxide and Polypyrrole and Their Properties as an Active Material in Lithium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , 1994, 141, 10-15.	1.3	122
27	Controlling the Electronic Energy Structure of ZnS:AgInS <sub>2</sub> Solid Solution Nanocrystals for Photoluminescence and Photocatalytic Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24740-24749.	1.5	122
28	Development of new techniques for scanning electron microscope observation using ionic liquid. <i>Electrochimica Acta</i> , 2008, 53, 6228-6234.	2.6	121
29	Photofunctional Materials Fabricated with Chalcopyrite-Type Semiconductor Nanoparticles Composed of AgInS <sub>2</sub> and Its Solid Solutions. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1107-1110.	2.1	115
30	Electrochemical synthesis and superconducting phase diagram of Cu <sub>x</sub> Bi <sub>2</sub> Se <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2014, 118, 12450-12454.	1.1	112
31	Characterization of Ultrasmall CdS Nanoparticles Prepared by the Size-Selective Photoetching Technique. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6838-6845.	1.2	110
32	Chemical Preparation of Manganese Dioxide/Polypyrrole Composites and Their Use as Cathode Active Materials for Rechargeable Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 1995, 142, 4190-4195.	1.3	109
33	Photochemical Reduction of Carbon Dioxide to Methanol Using ZnS Microcrystallite as a Photocatalyst in the Presence of Methanol Dehydrogenase. <i>Journal of the Electrochemical Society</i> , 1994, 141, 1498-1503.	1.3	95
34	Underpotential Deposition of Silver onto Gold Substrates Covered with Self-Assembled Monolayers of Alkanethiols To Induce Intervention of the Silver between the Monolayer and the Gold Substrate. <i>Langmuir</i> , 1998, 14, 3298-3302.	1.6	94
35	Performance improvement of CdS quantum dots sensitized TiO <sub>2</sub> solar cells by introducing a dense TiO <sub>2</sub> blocking layer. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 102002.	1.3	93
36	Evaluation of Diffusibility of Adsorbed Propionaldehyde on Titanium Dioxide-Loaded Adsorbent Photocatalyst Films from Its Photodecomposition Rate. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2644-2649.	1.2	92

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37	Narrow band-edge photoluminescence from AgInS <sub>2</sub> semiconductor nanoparticles by the formation of amorphous III-VI semiconductor shells. <i>NPG Asia Materials</i> , 2018, 10, 713-726.	3.8	91
38	Redox Behavior and Electrochromic Properties of Polypyrrole Films in Aqueous Solutions. <i>Bulletin of the Chemical Society of Japan</i> , 1984, 57, 2247-2253.	2.0	87
39	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.	1.5	87
40	Gas sensitivities of electropolymerized polythiophene films. <i>Synthetic Metals</i> , 1989, 30, 173-181.	2.1	83
41	Investigation of the gas-transport properties of polyaniline. <i>Journal of Membrane Science</i> , 1994, 91, 1-12.	4.1	81
42	Nanoparticle-Dispersed Liquid Crystals Fabricated by Sputter Doping. <i>Advanced Materials</i> , 2010, 22, 622-626.	11.1	81
43	Electrochemical oxidation of reduced nicotinamide coenzymes at Au electrodes modified with phenothiazine derivative monolayers. <i>Journal of Electroanalytical Chemistry</i> , 1997, 422, 45-54.	1.9	80
44	Underpotential deposition behavior of metals onto gold electrodes coated with self-assembled monolayers of alkanethiols. <i>Journal of Electroanalytical Chemistry</i> , 1999, 473, 59-67.	1.9	80
45	Formation of Au nanoparticles in an ionic liquid by electron beam irradiation. <i>Chemical Communications</i> , 2009, , 1775.	2.2	79
46	Electrochemical Oxidation of Cholesterol Catalyzed by Cholesterol Oxidase with Use of an Artificial Electron Mediator. <i>Analytical Chemistry</i> , 1997, 69, 2367-2372.	3.2	75
47	Preparation of Luminescent AgInS <sub>2</sub> AgGaS <sub>2</sub> Solid Solution Nanoparticles and Their Optical Properties. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3283-3287.	2.1	75
48	SEM Observation of Wet Biological Specimens Pretreated with Room-Temperature Ionic Liquid. <i>ChemBioChem</i> , 2011, 12, 2547-2550.	1.3	75
49	Self-Assembly of Ionic Liquid (BMI-PF <sub>6</sub> )-Stabilized Gold Nanoparticles on a Silicon Surface: Chemical and Structural Aspects. <i>Langmuir</i> , 2008, 24, 7785-7792.	1.6	74
50	Amperometric Determination of Total Cholesterol at Gold Electrodes Covalently Modified with Cholesterol Oxidase and Cholesterol Esterase with Use of Thionin as an Electron Mediator. <i>Analytical Chemistry</i> , 1999, 71, 1068-1076.	3.2	72
51	A Biomimetic Phospholipid/Alkanethiolate Bilayer Immobilizing Uricase and an Electron Mediator on an Au Electrode for Amperometric Determination of Uric Acid. <i>Analytical Chemistry</i> , 1999, 71, 4278-4283.	3.2	70
52	Effects of electrolytes on the photoelectrochemical reduction of carbon dioxide at illuminated p-type cadmium telluride and p-type indium phosphide electrodes in aqueous solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 249, 143-153.	0.3	69
53	Development of In Situ Electrochemical Scanning Electron Microscopy with Ionic Liquids as Electrolytes. <i>ChemPhysChem</i> , 2008, 9, 763-767.	1.0	69
54	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.	2.3	67

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55	Design, Synthesis, and Electrochemistry of Room-Temperature Ionic Liquids Functionalized with Propylene Carbonate. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1310-1313.	7.2	67
56	Gas sensitivity of polypyrrole films to NO <sub>2</sub> . <i>Journal of the Chemical Society Faraday Transactions I</i> , 1988, 84, 1587.	1.0	66
57	Electrochemical Behaviors of Polypyrrole, Poly- $\beta$ -methylthiophene, and Polyaniline Deposited on Nafion-Coated Electrodes. <i>Journal of the Electrochemical Society</i> , 1988, 135, 1132-1137.	1.3	66
58	EQCM studies on polypyrrole in aqueous solutions. <i>Journal of Electroanalytical Chemistry</i> , 1997, 420, 219-225.	1.9	66
59	Ionic liquid enables simple and rapid sample preparation of human culturing cells for scanning electron microscope analysis. <i>Microscopy Research and Technique</i> , 2011, 74, 415-420.	1.2	65
60	In situ Scanning Electron Microscopy of Silicon Anode Reactions in Lithium-Ion Batteries during Charge/Discharge Processes. <i>Scientific Reports</i> , 2016, 6, 36153.	1.6	65
61	Charge-discharge properties of chemically prepared composites of V <sub>2</sub> O <sub>5</sub> and polypyrrole as positive electrode materials in rechargeable Li batteries. <i>Electrochimica Acta</i> , 2000, 46, 91-97.	2.6	64
62	Voltammetric Characterization of Oxide Films Formed on Copper in Air. <i>Journal of the Electrochemical Society</i> , 2001, 148, B467.	1.3	64
63	Gold nanoparticles prepared with a room-temperature ionic liquid-radiation irradiation method. <i>Chemical Communications</i> , 2009, , 6792.	2.2	63
64	Uricase-Catalyzed Oxidation of Uric Acid Using an Artificial Electron Acceptor and Fabrication of Amperometric Uric Acid Sensors with Use of a Redox Ladder Polymer. <i>Analytical Chemistry</i> , 1999, 71, 1928-1934.	3.2	62
65	Compositional control of AuPt nanoparticles synthesized in ionic liquids by the sputter deposition technique. <i>CrystEngComm</i> , 2012, 14, 4922.	1.3	61
66	Atomic Resolution Imaging of Gold Nanoparticle Generation and Growth in Ionic Liquids. <i>Journal of the American Chemical Society</i> , 2014, 136, 13789-13797.	6.6	61
67	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, 1804-1811.	1.3	60
68	Simple observation of <i>Streptococcus mutans</i> biofilm by scanning electron microscopy using ionic liquids. <i>AMB Express</i> , 2015, 5, 6.	1.4	60
69	Charge Recombination Kinetics at an in Situ Chemical Bath-Deposited CdS/Nanocrystalline TiO <sub>2</sub> Interface. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6852-6858.	1.5	59
70	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.	3.2	59
71	Platinum nanoparticle immobilization onto carbon nanotubes using Pt-sputtered room-temperature ionic liquid. <i>RSC Advances</i> , 2012, 2, 8262.	1.7	59
72	Electrochemical fixation of carbon dioxide in oxoglutaric acid using an enzyme as an electrocatalyst. <i>Journal of the American Chemical Society</i> , 1989, 111, 2361-2362.	6.6	58

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73	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.	4.0	58
74	Preparation and Amperometric Glucose Sensitivity of Covalently Bound Glucose Oxidase to (2-Aminoethyl)ferrocene on an Au Electrode. <i>Analytical Chemistry</i> , 1995, 67, 1684-1690.	3.2	57
75	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.	1.3	57
76	Asymmetric Electroreduction of Ketone and Aldehyde Derivatives to the Corresponding Alcohols Using Alcohol Dehydrogenase as an Electrocatalyst. <i>Journal of Organic Chemistry</i> , 1997, 62, 2494-2499.	1.7	55
77	Wavelength-Tunable Band-Edge Photoluminescence of Nonstoichiometric Ag <sub>3</sub> In <sub>2</sub> S <sub>5</sub> Nanoparticles via Ga <sup>3+</sup> Doping. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42844-42855.	4.0	55
78	Light image formations on deprotonated polyaniline films containing titania particles. <i>Chemistry of Materials</i> , 1993, 5, 437-441.	3.2	54
79	Controlling surface reactions of CdS nanocrystals: photoluminescence activation, photoetching and photostability under light irradiation. <i>Nanotechnology</i> , 2007, 18, 465702.	1.3	54
80	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.	1.3	54
81	Electrochemical Synthesis of Polypyrrole Films Containing TiO <sub>2</sub> Powder Particles. <i>Journal of the Electrochemical Society</i> , 1990, 137, 1793-1796.	1.3	53
82	Voltammetric Response Accompanied by Inclusion of Ion Pairs and Triple Ion Formation of Electrodes Coated with an Electroactive Monolayer Film. <i>Analytical Chemistry</i> , 1997, 69, 1045-1053.	3.2	53
83	Controlling Shape Anisotropy of Zn <sub>2</sub> AgInS <sub>2</sub> Solid Solution Nanoparticles for Improving Photocatalytic Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 27151-27161.	4.0	53
84	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.	0.6	52
85	Assimilatory and dissimilatory reduction of nitrate and nitrite with a tris(tetrabutylammonium) nonakis(benzenethiolato)octasulfidohexaferatedimolybdate(3-) modified glassy-carbon electrode in water. <i>Inorganic Chemistry</i> , 1986, 25, 3018-3022.	1.9	51
86	Charge–Discharge Properties of Composite Films of Polyaniline and Crystalline V <sub>2</sub> O <sub>5</sub> Particles. <i>Journal of the Electrochemical Society</i> , 1998, 145, 2707-2710.	1.3	51
87	Electrocatalytic Activity of Platinum Nanoparticles Synthesized by Room-Temperature Ionic Liquid-Sputtering Method. <i>Electrochemistry</i> , 2009, 77, 693-695.	0.6	51
88	Tunable Photoelectrochemical Properties of Chalcopyrite AgInS <sub>2</sub> Nanoparticles Size-Controlled with a Photoetching Technique. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21895-21902.	1.5	51
89	Plasmon-Enhanced Photoluminescence and Photocatalytic Activities of Visible-Light-Responsive ZnS-AgInS <sub>2</sub> Solid Solution Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2511-2520.	1.5	51
90	Characterization of Covalently Immobilized Q-CdS Particles on Au(111) by Scanning Tunneling Microscopy and Tunneling Spectroscopy with High Reproducibility. <i>Langmuir</i> , 1997, 13, 742-746.	1.6	50

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91	Electrodeposition of Al <sup>3+</sup> -Mo <sup>6+</sup> -Ti Ternary Alloys in the Lewis Acidic Aluminum Chloride <sup>+</sup> -1-Ethyl-3-methylimidazolium Chloride Room-Temperature Ionic Liquid. <i>Journal of the Electrochemical Society</i> , 2008, 155, D256.	1.3	50
92	Widely Controllable Electronic Energy Structure of ZnSe <sup>+</sup> -AgInSe <sub>2</sub> Solid Solution Nanocrystals for Quantum-Dot-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29517-29524.	1.5	50
93	Rechargeable Lithium Battery Cells Fabricated Using Poly(methyl methacrylate) Gel Electrolyte and Composite of V <sub>2</sub> O <sub>5</sub> and Polypyrrole. <i>Journal of the Electrochemical Society</i> , 2002, 149, A988.	1.3	49
94	Crystal phase-controlled synthesis of rod-shaped AgInTe <sub>2</sub> nanocrystals for in vivo imaging in the near-infrared wavelength region. <i>Nanoscale</i> , 2016, 8, 5435-5440.	2.8	49
95	Spatial distribution of domains in binary self-assembled monolayers of thiols having different lengths. <i>Journal of Electroanalytical Chemistry</i> , 2001, 496, 29-36.	1.9	47
96	Effects of $\gamma$ -Functional Groups on pH-Dependent Reductive Desorption of Alkanethiol Self-Assembled Monolayers. <i>Langmuir</i> , 2004, 20, 10123-10128.	1.6	47
97	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.	0.7	46
98	Photosensitization of ZnO rod electrodes with AgInS <sub>2</sub> nanoparticles and ZnS-AgInS <sub>2</sub> solid solution nanoparticles for solar cell applications. <i>RSC Advances</i> , 2012, 2, 552-559.	1.7	46
99	Electrochemical behaviour of polyaniline in weak acid solutions. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 969.	1.0	45
100	Photocurrent Generation from Hierarchical Zinc <sup>2+</sup> -Substituted Hemoprotein Assemblies Immobilized on a Gold Electrode. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2628-2631.	7.2	45
101	Palladium Nanoparticles in Ionic Liquid by Sputter Deposition as Catalysts for Suzuki <sup>+</sup> -Miyaura Coupling in Water. <i>Chemistry Letters</i> , 2010, 39, 1069-1071.	0.7	43
102	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.	5.2	43
103	Emission quench of water-soluble ZnS <sup>+</sup> -AgInS <sub>2</sub> solid solution nanocrystals and its application to chemosensors. <i>Chemical Communications</i> , 2009, , 7485.	2.2	42
104	ZnS <sup>+</sup> -AgInS <sub>2</sub> nanoparticles as a temperature sensor. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 505-508.	4.0	42
105	Nanopore preparation in self-assembled monolayers of alkanethiols with use of the selective desorption technique assisted by underpotential deposition of silver and copper. <i>Journal of Electroanalytical Chemistry</i> , 2001, 497, 97-105.	1.9	41
106	Chromosome observation by scanning electron microscopy using ionic liquid. <i>Microscopy Research and Technique</i> , 2012, 75, 1113-1118.	1.2	41
107	Cadmium-Free Sugar-Chain-Immobilized Fluorescent Nanoparticles Containing Low-Toxicity ZnS-AgInS <sub>2</sub> Cores for Probing Lectin and Cells. <i>Bioconjugate Chemistry</i> , 2014, 25, 286-295.	1.8	41
108	Graphene Nanoplatelet Composite Cathode for a Chloroaluminate Ionic Liquid-Based Aluminum Secondary Battery. <i>ACS Applied Energy Materials</i> , 2018, 1, 2269-2274.	2.5	41

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109	Charge/discharge properties of polypyrrole films containing manganese dioxide particles. Journal of the Chemical Society Chemical Communications, 1991, , 986-987.	2.0	40
110	Optical simulation of transmittance into a nanocrystalline anatase TiO <sub>2</sub> film for solar cell applications. Solar Energy Materials and Solar Cells, 2007, 91, 201-206.	3.0	40
111	Preparation of selective micro glucose sensor without permselective membrane by electrochemical deposition of ruthenium and glucose oxidase. Electrochemistry Communications, 2007, 9, 1012-1016.	2.3	40
112	Solution-phase Synthesis of Stannite-type Ag <sub>2</sub> ZnSnS <sub>4</sub> Nanoparticles for Application to Photoelectrode Materials. Chemistry Letters, 2012, 41, 1009-1011.	0.7	40
113	Preparation and Properties of Size-Quantized TiO <sub>2</sub> Particles Immobilized in Poly(vinylpyrrolidinone) Gel Films. Langmuir, 1995, 11, 3725-3729.	1.6	39
114	Size and shape of Au nanoparticles formed in ionic liquids by electron beam irradiation. Physical Chemistry Chemical Physics, 2011, 13, 14823.	1.3	39
115	Various metal nanoparticles produced by accelerated electron beam irradiation of room-temperature ionic liquid. Chemical Communications, 2012, 48, 1925.	2.2	39
116	Preparation and properties of amperometric uric acid sensors. Sensors and Actuators B: Chemical, 1998, 52, 72-77.	4.0	38
117	Photoinduced Formation of Polythiophene/TiO <sub>2</sub> Nanohybrid Heterojunction Films for Solar Cell Applications. Journal of Physical Chemistry C, 2008, 112, 4767-4775.	1.5	38
118	Scanning electron microscopy with an ionic liquid reveals the loss of mitotic protrusions of cells during the epithelial/mesenchymal transition. Microscopy Research and Technique, 2011, 74, 1024-1031.	1.2	38
119	Dependence of Conductivity of Polypyrrole Film Doped with p-Phenol Sulfonate on Solution pH. Journal of the Electrochemical Society, 1990, 137, 2147-2150.	1.3	37
120	Photoimage Formation in a TiO <sub>2</sub> Particle-Incorporated Prussian Blue Film. Journal of the Electrochemical Society, 1996, 143, 3462-3465.	1.3	37
121	Preparation of Size-Quantized ZnS Thin Films Using Electrochemical Atomic Layer Epitaxy and Their Photoelectrochemical Properties. Langmuir, 2000, 16, 5820-5824.	1.6	37
122	Photoelectrochemical activities of ultrathin lead sulfide films prepared by electrochemical atomic layer epitaxy. Journal of Electroanalytical Chemistry, 2002, 522, 33-39.	1.9	37
123	Real-Time Quantification of Methanol in Plants Using a Hybrid Alcohol Oxidase/Peroxidase Biosensor. Analytical Chemistry, 2004, 76, 1500-1506.	3.2	37
124	In situ SEM observation of the Si negative electrode reaction in an ionic-liquid-based lithium-ion secondary battery. Microscopy (Oxford, England), 2015, 64, 159-168.	0.7	37
125	Ultrathin oxide shell coating of metal nanoparticles using ionic liquid/metal sputtering. Journal of Materials Chemistry A, 2015, 3, 6177-6186.	5.2	37
126	Preparation and Electrochemical Properties of WO <sub>3</sub> -Incorporated Polyaniline Films. Journal of the Electrochemical Society, 1992, 139, 3141-3146.	1.3	36



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127	Mechanism of the Amperometric Response of a Proposed Glucose Sensor Based on a Polypyrrole-Tubule-Impregnated Membrane. <i>Analytical Chemistry</i> , 1994, 66, 2757-2762.	3.2	36
128	Immobilization of Pd on Nanosilica Dendrimer as SILC: Highly Active and Sustainable Cluster Catalyst for Suzuki-Miyaura Reaction. <i>Synlett</i> , 2010, 2010, 1990-1996.	1.0	36
129	Oxygen reduction at silver monolayer islands deposited on gold substrate. <i>Electrochemistry Communications</i> , 2003, 5, 133-137.	2.3	35
130	Conductivity of polypyrrole films doped with aromatic sulphonate derivatives. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1988, 84, 2317.	1.0	34
131	Formation of a light image in a polyaniline film containing titanium(IV) oxide particles. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 716.	2.0	34
132	Electrochemical Formation of a Polyaniline-Analogue Monolayer on a Gold Electrode. <i>Langmuir</i> , 1999, 15, 6807-6812.	1.6	34
133	Influence of basicity of dopant anions on the conductivity of polyaniline. <i>Journal of Electroanalytical Chemistry</i> , 1992, 335, 223-231.	1.9	33
134	Synthesis of alloy AuCu nanoparticles with the L1 <sub>0</sub> structure in an ionic liquid using sputter deposition. <i>Dalton Transactions</i> , 2015, 44, 4186-4194.	1.6	33
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