

# Yong Soo Kang

## List of Publications by Year in descending order

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215  
papers

13,184  
citations

20759

60  
h-index

26548

107  
g-index

220  
all docs

220  
docs citations

220  
times ranked

15843  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial Engineering at Quantum Dot-Sensitized TiO <sub>2</sub> Photoelectrodes for Ultrahigh Photocurrent Generation. ACS Applied Materials & Interfaces, 2021, 13, 6208-6218.	4.0	7
2	Nitroaromatic Compounds to Induce a Partial Positive Charge on the Silver Nanoparticle Surface for Facilitated Transport Membranes for Olefin/Paraffin Separation. Macromolecular Research, 2020, 28, 1026-1031.	1.0	1
3	Bipolar Membranes to Promote Formation of Tight Ice-Like Water for Efficient and Sustainable Water Splitting. Small, 2020, 16, e2002641.	5.2	14
4	Intrinsically microporous oligomers as organic porogens for mixed-matrix membranes. Korean Journal of Chemical Engineering, 2020, 37, 1050-1056.	1.2	0
5	Doping of donor-acceptor polymers with long side chains via solution mixing for advancing thermoelectric properties. Nano Energy, 2019, 58, 585-595.	8.2	83
6	Effects of crystal size and surface coverage of perovskites on electron recombination in solar cells. Materials Letters, 2019, 242, 191-194.	1.3	9
7	Sub-5 nm Graphene Oxide Nanofilm with Exceptionally High H <sup>+</sup> /V Selectivity for Vanadium Redox Flow Battery. ACS Applied Energy Materials, 2019, 2, 4590-4596.	2.5	22
8	An artificial solid interphase with polymers of intrinsic microporosity for highly stable Li metal anodes. Chemical Communications, 2019, 55, 6313-6316.	2.2	29
9	Size effects of imidazolium cations bearing cyanoethyl group on performance of dye-sensitized solar cells. Materials Letters, 2019, 246, 137-140.	1.3	5
10	Lewis acidic water as a new carrier for facilitating CO <sub>2</sub> transport. Journal of Materials Chemistry A, 2019, 7, 5190-5194.	5.2	6
11	Enhanced Olefin and CO <sub>2</sub> Permeance Through Mesopore-Confined Ionic Liquid Membrane. Macromolecular Research, 2019, 27, 250-254.	1.0	4
12	Trifunctional Monomolecular Medium for Silver Nanoparticle Preparation Preserving Olefin Carrier Activity for Facilitated Olefin Transport Membrane. Macromolecular Research, 2018, 26, 399-402.	1.0	2
13	Poly(3,4-ethylenedioxythiophene) Quantum Dot-Sensitized Solar Cells in the Solid-State Utilizing Polymer Electrolyte. ACS Applied Energy Materials, 2018, 1, 290-295.	2.5	11
14	Imidazolium Iodide-Doped PEDOT Nanofibers as Conductive Catalysts for Highly Efficient Solid-State Dye-Sensitized Solar Cells Employing Polymer Electrolyte. ACS Applied Materials & Interfaces, 2018, 10, 2537-2545.	4.0	9
15	Synthesising chain-like, interconnected Pt nanoparticles using a tubular halloysite clay template for an efficient counter electrode in dye-sensitized solar cells. Sustainable Energy and Fuels, 2018, 2, 361-366.	2.5	1
16	Direct molecular interaction of CO <sub>2</sub> with KTFSI dissolved in Pebax 2533 and their use in facilitated CO <sub>2</sub> transport membranes. Journal of Membrane Science, 2018, 548, 358-362.	4.1	19
17	Nanocomposite Membranes Comprising Crosslinked Polymer Blends of Poly(vinyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 107 Td Nanoscience and Nanotechnology, 2018, 18, 1657-1664.	0.9	2
18	Synthesis of poly(3,4-ethylene dioxythiophene)/ammonium vanadate nanofiber composites for counter electrode of dye-sensitized solar cells. Electrochimica Acta, 2017, 245, 607-614.	2.6	15

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19	Highly CO <sub>2</sub> selective membranes by potassium cations as carriers for facilitated transport with Ag <sub>2</sub> O particles and free ions in ionic liquid. <i>Chemical Engineering Journal</i> , 2017, 320, 29-33.	6.6	12
20	Triumphing over Charge Transfer Limitations of PEDOT Nanofiber Reduction Catalyst by 1,2-Ethanedithiol Doping for Quantum Dot Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 1877-1884.	4.0	15
21	Metal-organic frameworks grown on a porous planar template with an exceptionally high surface area: promising nanofiller platforms for CO <sub>2</sub> separation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22500-22505.	5.2	37
22	Dual-Function Au@Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> Smart Film for Enhanced Power Conversion Efficiency and Long-Term Stability of Perovskite Solar Cells. <i>Scientific Reports</i> , 2017, 7, 6849.	1.6	35
23	Durable poly(vinyl alcohol)/AgBF <sub>4</sub> /Al(NO <sub>3</sub> ) <sub>3</sub> complex membrane with high permeance for propylene/propane separation. <i>Separation and Purification Technology</i> , 2017, 174, 39-43.	3.9	18
24	Alkylmethylimidazolium tricyanomethanide based supported ion gel membranes for CO <sub>2</sub> separation. <i>RSC Advances</i> , 2017, 7, 51257-51263.	1.7	2
25	Ultra-High Proton/Vanadium Selectivity for Hydrophobic Polymer Membranes with Intrinsic Nanopores for Redox Flow Battery. <i>Advanced Energy Materials</i> , 2016, 6, 1600517.	10.2	123
26	Wavelength conversion effect-assisted dye-sensitized solar cells for enhanced solar light harvesting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11908-11915.	5.2	17
27	Strongly Coupled Cyclometalated Ruthenium Triarylamine Chromophores as Sensitizers for DSSCs. <i>Chemistry - A European Journal</i> , 2016, 22, 8915-8928.	1.7	18
28	Matrix effect of mixed-matrix membrane containing CO <sub>2</sub> -selective MOFs. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	26
29	Properties of Contact and Bulk Impedances in Hybrid Lead Halide Perovskite Solar Cells Including Inductive Loop Elements. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8023-8032.	1.5	407
30	Origin of high open-circuit voltage in solid state dye-sensitized solar cells employing polymer electrolyte. <i>Nano Energy</i> , 2016, 28, 455-461.	8.2	24
31	Exploring Graphene Quantum Dots/TiO <sub>2</sub> interface in photoelectrochemical reactions: Solar to fuel conversion. <i>Electrochimica Acta</i> , 2016, 187, 249-255.	2.6	79
32	Exploring Interfacial Events in Gold-Nanocluster-Sensitized Solar Cells: Insights into the Effects of the Cluster Size and Electrolyte on Solar Cell Performance. <i>Journal of the American Chemical Society</i> , 2016, 138, 390-401.	6.6	137
33	CO <sub>2</sub> -philic PBEM-g-POEM comb copolymer membranes: Synthesis, characterization and CO <sub>2</sub> /N <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2016, 502, 191-201.	4.1	46
34	Interfacial Degradation of Planar Lead Halide Perovskite Solar Cells. <i>ACS Nano</i> , 2016, 10, 218-224.	7.3	427
35	Accelerated CO <sub>2</sub> transport on surface of AgO nanoparticles in ionic liquid BMIMBF <sub>4</sub> . <i>Scientific Reports</i> , 2015, 5, 16362.	1.6	18
36	A Bis(tridentate)cobalt Polypyridine Complex as Mediator in Dye-Sensitized Solar Cells. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3299-3306.	1.0	9

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37	Dual facilitated transport of CO <sub>2</sub> using electrospun composite membranes containing ionic liquid. <i>Journal of Membrane Science</i> , 2015, 479, 77-84.	4.1	16
38	TiO <sub>2</sub> surface engineering with multifunctional oligomeric polystyrene coadsorbent for dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 68413-68419.	1.7	3
39	Doubly extended catalytic surface formed by electrodeposition in solid state dye-sensitized solar cells employing polymer electrolyte. <i>Macromolecular Research</i> , 2015, 23, 705-708.	1.0	2
40	Excellent optical and interfacial performance of a PEDOT-b-PEG block copolymer counter electrode for polymer electrolyte-based solid-state dye-sensitized solar cells. <i>Chemical Communications</i> , 2015, 51, 16782-16785.	2.2	14
41	Surface Modification of TiO <sub>2</sub> Photoanodes with Fluorinated Self-Assembled Monolayers for Highly Efficient Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 25741-25747.	4.0	29
42	Cost-effective facilitated olefin transport membranes consisting of polymer/AgCF <sub>3</sub> SO <sub>3</sub> /Al(NO <sub>3</sub> ) <sub>3</sub> with long-term stability. <i>Journal of Membrane Science</i> , 2015, 495, 61-64.	4.1	17
43	Stepwise cosensitization for high efficiency dye-sensitized solar cells utilizing solid-state polymer electrolytes. <i>Materials Letters</i> , 2015, 161, 435-438.	1.3	3
44	Carbon-doped ZnO submicron spheres functionalized with carboxylate groups and effect of dispersion stability in the colloidal system for high photocatalytic activity. <i>RSC Advances</i> , 2015, 5, 104556-104562.	1.7	7
45	Room Temperature Synthesis of Highly Compact TiO <sub>2</sub> Coatings by Vacuum Kinetic Spraying to Serve as a Blocking Layer in Polymer Electrolyte-Based Dye-Sensitized Solar Cells. <i>Journal of Thermal Spray Technology</i> , 2015, 24, 328-337.	1.6	10
46	EFFECT OF THE CHROMOPHORES STRUCTURES ON THE PERFORMANCE OF SOLID-STATE DYE SENSITIZED SOLAR CELLS. <i>Nano</i> , 2014, 09, 1440005.	0.5	7
47	An electrochemical, in vitro bioactivity, and quantum chemical approach to nanostructured copolymer coatings for orthopedic applications. <i>Journal of Materials Science</i> , 2014, 49, 4067-4080.	1.7	26
48	Chemical stability of olefin carrier based on silver cations and metallic silver nanoparticles against the formation of silver acetylide for facilitated transport membranes. <i>Journal of Membrane Science</i> , 2014, 463, 11-16.	4.1	9
49	Pore-filled anion-exchange membranes for non-aqueous redox flow batteries with dual-metal-complex redox shuttles. <i>Journal of Membrane Science</i> , 2014, 454, 44-50.	4.1	49
50	Plasmon-enhanced quasi-solid-state dye-sensitized solar cells with metal@Dendron nanoparticles. <i>Polymer Bulletin</i> , 2014, 71, 2053-2065.	1.7	0
51	The platform effect of graphene oxide on CO <sub>2</sub> transport on copper nanocomposites in ionic liquids. <i>Chemical Engineering Journal</i> , 2014, 251, 343-347.	6.6	17
52	Graphene synthesis and application for solar cells. <i>Journal of Materials Research</i> , 2014, 29, 299-319.	1.2	77
53	Anchor-Functionalized Push-Pull-Substituted Bis(tridentate) Ruthenium(II) Polypyridine Chromophores: Photostability and Evaluation as Photosensitizers. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2720-2734.	1.0	24
54	Toward Higher Energy Conversion Efficiency for Solid Polymer Electrolyte Dye-Sensitized Solar Cells: Ionic Conductivity and TiO <sub>2</sub> Pore-Filling. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1249-1258.	2.1	68

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55	Promotion of strongly anchored dyes on the surface of titania by tetraethyl orthosilicate treatment for enhanced solar cell performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2250-2255.	5.2	11
56	Tetrathiafulvalene as an electron acceptor for positive charge induction on the surface of silver nanoparticles for facilitated olefin transport. <i>Chemical Communications</i> , 2014, 50, 3194.	2.2	9
57	Nitrogen and sulfur co-doped graphene counter electrodes with synergistically enhanced performance for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12232-12239.	5.2	125
58	Ultrathin polypyrrole nanosheets doped with HCl as counter electrodes in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 859-865.	5.2	47
59	Enhanced photocatalytic performance at a Au/NiO <sub>2</sub> hollow nanowire array by a combination of light scattering and reduced recombination. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17748-17755.	1.3	26
60	Ruthenium(ii) quasi-solid state dye sensitized solar cells with 8% efficiency using a supramolecular oligomer-based electrolyte. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13338-13344.	5.2	4
61	Olefin separation via charge transfer and dipole formation at the silver nanoparticle-tetracyanoquinoid interface. <i>RSC Advances</i> , 2014, 4, 30156-30161.	1.7	14
62	High-efficiency solid-state polymer electrolyte dye-sensitized solar cells with a bi-functional porous layer. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17746-17750.	5.2	37
63	Chemical Effects of Tin Oxide Nanoparticles in Polymer Electrolytes-Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16510-16517.	1.5	56
64	Quantum Dot-Sensitized Solar Cells. <i>Green Energy and Technology</i> , 2014, , 89-136.	0.4	8
65	Electrochemical and in vitro bioactivity of polypyrrole/ceramic nanocomposite coatings on 316L SS bio-implants. <i>Materials Science and Engineering C</i> , 2014, 43, 76-85.	3.8	42
66	A strong linear correlation between the surface charge density on Ag nanoparticles and the amount of propylene adsorbed. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6987.	5.2	6
67	Photoinduced Giant Dielectric Constant in Lead Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2390-2394.	2.1	629
68	Printable ternary component polymer-gel electrolytes for long-term stable dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 145, 217-223.	2.6	36
69	Three-dimensional Gd-doped TiO <sub>2</sub> fibrous photoelectrodes for efficient visible light-driven photocatalytic performance. <i>RSC Advances</i> , 2014, 4, 11750-11757.	1.7	31
70	Synergistic Metal-Metal Oxide Nanoparticles Supported Electrocatalytic Graphene for Improved Photoelectrochemical Glucose Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 4864-4871.	4.0	100
71	Enhanced CO <sub>2</sub> carrier activity of potassium cation with fluorosilicate anions for facilitated transport membranes. <i>Journal of Membrane Science</i> , 2014, 466, 357-360.	4.1	21
72	Slow Dynamic Processes in Lead Halide Perovskite Solar Cells. Characteristic Times and Hysteresis. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2357-2363.	2.1	609

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73	New CO <sub>2</sub> separation membranes containing gas-selective Cu-MOFs. <i>Journal of Membrane Science</i> , 2014, 467, 67-72.	4.1	20
74	Efficient binary organic thiolate/disulfide redox mediators in dye-sensitized solar cells based on a carbon black counter electrode. <i>Journal of Materials Chemistry A</i> , 2013, 1, 233-236.	5.2	16
75	Plasmon-enhanced photocurrent in quasi-solid-state dye-sensitized solar cells by the inclusion of gold/silica core-shell nanoparticles in a TiO <sub>2</sub> photoanode. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12627.	5.2	24
76	Metallic copper incorporated ionic liquids toward maximizing CO <sub>2</sub> separation properties. <i>Separation and Purification Technology</i> , 2013, 112, 49-53.	3.9	23
77	Development of thin anion-exchange pore-filled membranes for high diffusion dialysis performance. <i>Journal of Membrane Science</i> , 2013, 447, 80-86.	4.1	54
78	Poly(vinylpyrrolidone)/KF electrolyte membranes for facilitated CO <sub>2</sub> transport. <i>Chemical Communications</i> , 2013, 49, 10181.	2.2	65
79	Formation of a crystalline nanotube-nanoparticle hybrid by post water-treatment of a thin amorphous TiO <sub>2</sub> layer on a TiO <sub>2</sub> nanotube array as an efficient photoanode in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4370.	5.2	22
80	Fabrication of SrTiO <sub>3</sub> -TiO <sub>2</sub> heterojunction photoanode with enlarged pore diameter for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11820.	5.2	100
81	Vertically aligned anatase TiO <sub>2</sub> nanotubes on transparent conducting substrates using polycarbonate membranes. <i>RSC Advances</i> , 2013, 3, 13681.	1.7	8
82	A PEDOT-reinforced exfoliated graphite composite as a Pt- and TCO-free flexible counter electrode for polymer electrolyte dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1048-1054.	5.2	59
83	Efficient Light Harvesting with Micropatterned 3D Pyramidal Photoanodes in Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2013, 25, 3111-3116.	11.1	65
84	Quasi-solid-state dye-sensitized solar cells assembled with polymeric ionic liquid and poly(3,4-ethylenedioxythiophene) counter electrode. <i>Electrochemistry Communications</i> , 2013, 34, 1-4.	2.3	34
85	Synthesis, structure and gas permeation of polymerized ionic liquid graft copolymer membranes. <i>Journal of Membrane Science</i> , 2013, 443, 54-61.	4.1	65
86	Quantum Dot Based Heterostructures for Unassisted Photoelectrochemical Hydrogen Generation. <i>Advanced Energy Materials</i> , 2013, 3, 176-182.	10.2	101
87	Synthesis of graphene-CoS electro-catalytic electrodes for dye sensitized solar cells. <i>Carbon</i> , 2012, 50, 4815-4821.	5.4	127
88	Successful demonstration of an efficient Ir <sup>III</sup> /(SeCN) <sub>2</sub> redox mediator for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 469-472.	1.3	22
89	All-solid-state proton conductive membranes prepared by a semi-interpenetrating polymer network (semi-IPN). <i>Journal of Materials Chemistry</i> , 2012, 22, 18522.	6.7	8
90	Interfacial engineering of quantum dot-sensitized TiO <sub>2</sub> fibrous electrodes for futuristic photoanodes in photovoltaic applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 14228.	6.7	32

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91	Effect of HNO <sub>3</sub> functionalization on large scale graphene for enhanced tri-iodide reduction in dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 20490.	6.7	103
92	Factors affecting the performance of supercapacitors assembled with polypyrrole/multi-walled carbon nanotube composite electrodes. <i>Electrochimica Acta</i> , 2012, 78, 649-655.	2.6	82
93	Facilitated olefin transport through room temperature ionic liquids for separation of olefin/paraffin mixtures. <i>Journal of Membrane Science</i> , 2012, 423-424, 159-164.	4.1	29
94	Nanocomposite Coatings on Biomedical Grade Stainless Steel for Improved Corrosion Resistance and Biocompatibility. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 5134-5141.	4.0	72
95	Facilitated CO <sub>2</sub> transport membranes utilizing positively polarized copper nanoparticles. <i>Chemical Communications</i> , 2012, 48, 5298.	2.2	61
96	Highly efficient and stable dye-sensitized solar cells based on SnO <sub>2</sub> nanocrystals prepared by microwave-assisted synthesis. <i>Energy and Environmental Science</i> , 2012, 5, 5392-5400.	15.6	154
97	N-Ion-implanted TiO <sub>2</sub> photoanodes in quantum dot-sensitized solar cells. <i>Nanoscale</i> , 2012, 4, 2416.	2.8	36
98	Threshold silver concentration for facilitated olefin transport in polymer/silver salt membranes. <i>Journal of Polymer Research</i> , 2012, 19, 1.	1.2	15
99	Dye-sensitized solar cells using ion-gel electrolytes for long-term stability. <i>Journal of Power Sources</i> , 2012, 201, 395-401.	4.0	41
100	Efficient Performance of Electrostatic Spray-Deposited TiO <sub>2</sub> Blocking Layers in Dye-Sensitized Solar Cells after Swift Heavy Ion Beam Irradiation. <i>Nanoscale Research Letters</i> , 2011, 6, 30.	3.1	18
101	Nanoassembly of Block Copolymer Micelle and Graphene Oxide to Multilayer Coatings. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 3095-3099.	1.8	15
102	Synergistic Catalytic Effect of a Composite (CoS/PEDOT:PSS) Counter Electrode on Triiodide Reduction in Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 1838-1843.	4.0	135
103	High Open Circuit Voltage Quantum Dot Sensitized Solar Cells Manufactured with ZnO Nanowire Arrays and Si/ZnO Branched Hierarchical Structures. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1984-1990.	2.1	71
104	Facile synthesis of highly branched jacks-like ZnO nanorods and their applications in dye-sensitized solar cells. <i>Materials Research Bulletin</i> , 2011, 46, 1473-1479.	2.7	58
105	Synthesis of highly positively polarized silver nanoparticles in poly(ethylene phthalate)/AgBF <sub>4</sub> composite. <i>Macromolecular Research</i> , 2011, 19, 413-416.	1.0	2
106	Fabrication and charge transfer characteristics of CdS QDs sensitized vertically grown flower-like ZnO solar cells with CdSe cosensitizers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 474-479.	0.8	23
107	Amplifying Charge Transfer Characteristics of Graphene for Triiodide Reduction in Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2011, 21, 3729-3736.	7.8	181
108	Surface Energy Level Tuning of Silver Nanoparticles for Facilitated Olefin Transport. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2982-2985.	7.2	50

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109	Dye-sensitized solar cells with quasi-solid-state cross-linked polymer electrolytes containing aluminum oxide. <i>Electrochimica Acta</i> , 2011, 56, 2031-2035.	2.6	51
110	Robust mesocellular carbon foam counter electrode for quantum-dot sensitized solar cells. <i>Electrochemistry Communications</i> , 2011, 13, 34-37.	2.3	60
111	Dye-sensitized solar cells employing amphiphilic poly(ethylene glycol) electrolytes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 217, 169-176.	2.0	23
112	Effect of ionic liquids on dissociation of copper flake into copper nanoparticles and its application to facilitated olefin transport membranes. <i>Journal of Membrane Science</i> , 2011, 374, 43-48.	4.1	24
113	Silver nanoparticles stabilized by crosslinked poly(vinyl pyrrolidone) and its application for facilitated olefin transport. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 83-86.	5.0	24
114	Synthesis of Graphene and Its Applications: A Review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2010, 35, 52-71.	6.8	1,443
115	Anatase TiO <sub>2</sub> spheres with high surface area and mesoporous structure via a hydrothermal process for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010, 55, 4637-4641.	2.6	59
116	CO <sub>2</sub> separation membranes using ionic liquids in a Nafion matrix. <i>Journal of Membrane Science</i> , 2010, 363, 72-79.	4.1	58
117	High temperature proton exchange membranes based on triazoles attached onto SBA-15 type mesoporous silica. <i>Journal of Membrane Science</i> , 2010, 357, 1-5.	4.1	30
118	Ionic diffusion in various electrolytes and the implications for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 213, 1-6.	2.0	5
119	Band gap engineering in PbS nanostructured thin films from near-infrared down to visible range by in situ Cd-doping. <i>Journal of Alloys and Compounds</i> , 2010, 495, 234-237.	2.8	72
120	Liquid Crystals Embedded in Polymeric Electrolytes for Quasi-Solid State Dye-Sensitized Solar Cell Applications. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 1844-1850.	1.1	25
121	Self-assembled CdS quantum dots-sensitized TiO <sub>2</sub> nanospheroidal solar cells: Structural and charge transport analysis. <i>Electrochimica Acta</i> , 2009, 55, 113-117.	2.6	69
122	The effect of annealing on sSEBS/polyrotaxanes electrolyte membranes for direct methanol fuel cells. <i>Macromolecular Research</i> , 2009, 17, 729-733.	1.0	4
123	Olefin separation performances and coordination behaviors of facilitated transport membranes based on poly(styrene- <i>b</i> -isoprene- <i>b</i> -styrene)/silver salt complexes. <i>Macromolecular Research</i> , 2009, 17, 104-109.	1.0	9
124	The performance of coupled (CdS:CdSe) quantum dot-sensitized TiO <sub>2</sub> nanofibrous solar cells. <i>Electrochemistry Communications</i> , 2009, 11, 2220-2224.	2.3	103
125	Direct assembly of ZnO nanostructures on glass substrates by chemical bath deposition through precipitation method. <i>Superlattices and Microstructures</i> , 2009, 46, 917-924.	1.4	9
126	Propylene-induced plasticization in silver polymer electrolyte membranes. <i>Journal of Industrial and Engineering Chemistry</i> , 2009, 15, 8-11.	2.9	7

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127	Synthesis of silver halide nanocomposites templated by amphiphilic graft copolymer and their use as olefin carrier for facilitated transport membranes. <i>Journal of Membrane Science</i> , 2009, 339, 49-56.	4.1	34
128	Effects of silica nanoparticle and GPTMS addition on TEOS-based stone consolidants. <i>Journal of Cultural Heritage</i> , 2009, 10, 214-221.	1.5	87
129	Behavior of Inorganic Nanoparticles in Silver Polymer Electrolytes and Their Effects on Silver Ion Activity for Facilitated Olefin Transport. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 8650-8654.	1.8	11
130	Selective coordination of silver ions to poly(styrene- <i>b</i> -(ethylene-co-butylene)- <i>b</i> -styrene) and its influence on morphology and facilitated olefin transport. <i>Macromolecular Research</i> , 2008, 16, 676-681.	1.0	4
131	Synthesis of new pH-sensitive amphiphilic block copolymers and study for the micellization using a fluorescence probe. <i>Macromolecular Research</i> , 2008, 16, 169-177.	1.0	14
132	PEO electrolytes containing dioctyl phthalate (DOP) for dye-sensitized nanocrystalline TiO <sub>2</sub> solar cells. <i>Ionics</i> , 2008, 14, 143-148.	1.2	4
133	Effect of the polarity of silver nanoparticles induced by ionic liquids on facilitated transport for the separation of propylene/propane mixtures. <i>Journal of Membrane Science</i> , 2008, 322, 281-285.	4.1	62
134	Solid-state oligomer electrolyte with amine-acid interaction for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2008, 183, 812-816.	4.0	16
135	Influence of salts on ionic diffusion in oligomer electrolytes and its implication in dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 194, 148-151.	2.0	16
136	Dye-sensitized solar cells employing non-volatile electrolytes based on oligomer solvent. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 195, 198-204.	2.0	35
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