

Sung Hyun Kim

List of Publications by Year in descending order

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147
papers

5,392
citations

71061

41
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98753

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147
all docs

147
docs citations

147
times ranked

6940
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimation of Thermal Conductivity of Nanofluid Using Experimental Effective Particle Volume. <i>Experimental Heat Transfer</i> , 2006, 19, 181-191.	2.3	381
2	Fabrication methods for low-Pt-loading electrocatalysts in proton exchange membrane fuel cell systems. <i>Journal of Power Sources</i> , 2007, 165, 667-677.	4.0	249
3	Investigation of Thermodynamic Parameters in the Thermal Decomposition of Plastic Waste~Waste Lube Oil Compounds. <i>Environmental Science & Technology</i> , 2010, 44, 5313-5317.	4.6	176
4	Synthesis of Silica Nanofluid and Application to CO ₂ Absorption. <i>Separation Science and Technology</i> , 2008, 43, 3036-3055.	1.3	174
5	Correlation and Prediction of the Solubility of Carbon Dioxide in Aqueous Alkanolamine and Mixed Alkanolamine Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 1658-1665.	1.8	130
6	Solution processed WO ₃ layer for the replacement of PEDOT:PSS layer in organic photovoltaic cells. <i>Organic Electronics</i> , 2012, 13, 959-968.	1.4	126
7	Improvement of low-humidity performance of PEMFC by addition of hydrophilic SiO ₂ particles to catalyst layer. <i>Journal of Power Sources</i> , 2006, 159, 529-532.	4.0	118
8	Sodium borohydride as the hydrogen supplier for proton exchange membrane fuel cell systems. <i>Fuel Processing Technology</i> , 2006, 87, 811-819.	3.7	107
9	ZrO ₂ ~SiO ₂ /Nafion® composite membrane for polymer electrolyte membrane fuel cells operation at high temperature and low humidity. <i>Journal of Power Sources</i> , 2008, 177, 247-253.	4.0	104
10	Effect of alumina nanoparticles in the fluid on heat transfer in double-pipe heat exchanger system. <i>Korean Journal of Chemical Engineering</i> , 2008, 25, 966-971.	1.2	103
11	Development of a novel hydrophobic/hydrophilic double micro porous layer for use in a cathode gas diffusion layer in PEMFC. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8422-8428.	3.8	103
12	Effects of cathode open area and relative humidity on the performance of air-breathing polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2006, 158, 348-353.	4.0	101
13	Removal of Refractory Sulfur Compounds in Diesel Using Activated Carbon with Controlled Porosity. <i>Energy & Fuels</i> , 2009, 23, 2537-2543.	2.5	101
14	CO ₂ mineralization into different polymorphs of CaCO ₃ using an aqueous-CO ₂ system. <i>RSC Advances</i> , 2013, 3, 21722.	1.7	99
15	Nanocomposite poly(arylene ether sulfone) reverse osmosis membrane containing functional zeolite nanoparticles for seawater desalination. <i>Journal of Membrane Science</i> , 2013, 443, 10-18.	4.1	88
16	Numerical modeling and experimental study of the influence of GDL properties on performance in a PEMFC. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1837-1845.	3.8	87
17	Sodium-Based Dry Regenerable Sorbent for Carbon Dioxide Capture from Power Plant Flue Gas. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 4465-4472.	1.8	85
18	Porous carbon based on polyvinylidene fluoride: Enhancement of CO ₂ adsorption by physical activation. <i>Carbon</i> , 2016, 99, 354-360.	5.4	84

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19	Novel thin nanocomposite RO membranes for chlorine resistance. <i>Desalination and Water Treatment</i> , 2013, 51, 6338-6345.	1.0	83
20	Improvement of the mechanical durability of micro porous layer in a proton exchange membrane fuel cell by elimination of surface cracks. <i>Renewable Energy</i> , 2012, 48, 35-41.	4.3	81
21	Determination of the pore size distribution of micro porous layer in PEMFC using pore forming agents under various drying conditions. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 11148-11153.	3.8	78
22	White emission using mixtures of CdSe quantum dots and PMMA as a phosphor. <i>Optical Materials</i> , 2010, 32, 515-521.	1.7	77
23	A study on cathode structure and water transport in air-breathing PEM fuel cells. <i>Journal of Power Sources</i> , 2006, 159, 1089-1094.	4.0	67
24	Enhancement of Chlorine Resistance in Carbon Nanotube Based Nanocomposite Reverse Osmosis Membranes. <i>Desalination and Water Treatment</i> , 2010, 15, 198-204.	1.0	67
25	Effect of crosslinking on the CO ₂ adsorption of polyethyleneimine-impregnated sorbents. <i>Chemical Engineering Journal</i> , 2017, 307, 836-844.	6.6	67
26	Desalination membranes from pH-controlled and thermally-crosslinked layer-by-layer assembled multilayers. <i>Journal of Materials Chemistry</i> , 2010, 20, 2085.	6.7	64
27	Effects of hybrid fillers on the electrical conductivity and EMI shielding efficiency of polypropylene/conductive filler composites. <i>Macromolecular Research</i> , 2013, 21, 905-910.	1.0	63
28	Development of a porosity-graded micro porous layer using thermal expandable graphite for proton exchange membrane fuel cells. <i>Renewable Energy</i> , 2013, 58, 28-33.	4.3	58
29	Adsorption of Carbon Dioxide on 3-Aminopropyl-Triethoxysilane Modified Graphite Oxide. <i>Energy & Fuels</i> , 2013, 27, 3358-3363.	2.5	56
30	Influence of anode diffusion layer properties on performance of direct borohydride fuel cell. <i>Journal of Power Sources</i> , 2006, 162, 192-197.	4.0	54
31	Preparation, characterization and performance of poly(arylene ether sulfone)/modified silica nanocomposite reverse osmosis membrane for seawater desalination. <i>Desalination</i> , 2013, 325, 76-83.	4.0	52
32	Extremely high color rendering white light from surface passivated carbon dots and Zn-doped AgInS ₂ nanocrystals. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4227-4232.	2.7	51
33	Recycling of sodium metaborate to borax. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2982-2987.	3.8	47
34	Preparation and characterization of surface modified silica nanoparticles with organo-silane compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 384, 318-322.	2.3	46
35	Hydrothermal Synthesis of K ₂ CO ₃ -Promoted Hydrotalcite from Hydroxide-Form Precursors for Novel High-Temperature CO ₂ Sorbent. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6914-6919.	4.0	46
36	Effect of heat-treatment on CdS and CdS/ZnS nanoparticles. <i>Journal of Materials Science</i> , 2009, 44, 4315-4320.	1.7	45

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37	Development of porous carbon nanofibers from electrospun polyvinylidene fluoride for CO ₂ capture. RSC Advances, 2014, 4, 58956-58963.	1.7	45
38	Experimental analysis of bubble mode in a plate-type absorber. Chemical Engineering Science, 2002, 57, 1923-1929.	1.9	44
39	Combined H ₂ O and CO ₂ reforming of coke oven gas over Ca-promoted Ni/MgAl ₂ O ₄ catalyst for direct reduced iron production. Fuel, 2015, 153, 303-309.	3.4	44
40	Composite membranes based on a sulfonated poly(arylene ether sulfone) and proton-conducting hybrid silica particles for high temperature PEMFCs. International Journal of Hydrogen Energy, 2011, 36, 10891-10900.	3.8	43
41	Effects of pore structure and PEI impregnation on carbon dioxide adsorption by ZSM-5 zeolites. Journal of Industrial and Engineering Chemistry, 2015, 23, 251-256.	2.9	43
42	Effect of amine structure on CO ₂ adsorption over tetraethylenepentamine impregnated poly methyl methacrylate supports. Separation and Purification Technology, 2014, 125, 187-193.	3.9	42
43	Improvement of water management in air-breathing and air-blowing PEMFC at low temperature using hydrophilic silica nano-particles. International Journal of Hydrogen Energy, 2007, 32, 4459-4465.	3.8	41
44	Preparation of electrospun polyurethane filter media and their collection mechanisms for ultrafine particles. Journal of the Air and Waste Management Association, 2014, 64, 322-329.	0.9	39
45	Behavior of hydrogen evolution of aqueous sodium borohydride solutions. Journal of Industrial and Engineering Chemistry, 2008, 14, 94-99.	2.9	38
46	A benzothiadiazole-based oligothiophene for vacuum-deposited organic photovoltaic cells. Solar Energy Materials and Solar Cells, 2010, 94, 2057-2063.	3.0	38
47	Synthesis and characterization of crosslinked sulfonated poly(arylene ether sulfone) membranes for high temperature PEMFC applications. International Journal of Hydrogen Energy, 2011, 36, 1813-1819.	3.8	38
48	Crosslinked sulfonated poly(arylene ether sulfone)/silica hybrid membranes for high temperature proton exchange membrane fuel cells. Renewable Energy, 2013, 51, 22-28.	4.3	38
49	Photocurrent mechanism in a hybrid system of 1-thioglycerol-capped HgTe nanoparticles. Applied Physics Letters, 2003, 83, 4619-4621.	1.5	35
50	A study on numerical simulations and experiments for mass transfer in bubble mode absorber of ammonia and water. International Journal of Refrigeration, 2003, 26, 551-558.	1.8	34
51	High-temperature CO ₂ sorption on Na ₂ CO ₃ -impregnated layered double hydroxides. Korean Journal of Chemical Engineering, 2014, 31, 1668-1673.	1.2	34
52	Non-isothermal pyrolysis of waste automobile lubricating oil in a stirred batch reactor. Chemical Engineering Journal, 2003, 93, 225-231.	6.6	33
53	YAG and CdSe/ZnSe nanoparticles hybrid phosphor for white LED with high color rendering index. Materials Chemistry and Physics, 2011, 126, 162-166.	2.0	33
54	Fabrication of high color rendering index white LED using Cd-free wavelength tunable Zn doped CuInS ₂ nanocrystals. Optics Express, 2012, 20, 25071.	1.7	33

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55	Fast start-up of microchannel fuel processor integrated with an igniter for hydrogen combustion. Journal of Power Sources, 2006, 161, 1234-1240.	4.0	32
56	Thermal Stability and Isomerization Mechanism of <i>exo</i> -Tetrahydrocyclopentadiene: Experimental Study and Molecular Modeling. Industrial & Engineering Chemistry Research, 2010, 49, 8319-8324.	1.8	32
57	Effect of fluid viscoelasticity on the draw resonance dynamics of melt spinning. Journal of Non-Newtonian Fluid Mechanics, 2001, 99, 159-166.	1.0	31
58	Composite membranes based on sulfonated poly(ether ether ketone) and SiO ₂ for a vanadium redox flow battery. Korean Journal of Chemical Engineering, 2015, 32, 1554-1563.	1.2	31
59	Experimental Study on Charge Decay of Electret Filter Due to Organic Solvent Exposure. Aerosol Science and Technology, 2015, 49, 977-983.	1.5	31
60	Effects of isocyanate index and environmentally-friendly blowing agents on the morphological, mechanical, and thermal insulating properties of polyisocyanurate-polyurethane foams. Macromolecular Research, 2013, 21, 852-859.	1.0	29
61	White light emission from blue InGaN LED precoated with conjugated copolymer/quantum dots as hybrid phosphor. Synthetic Metals, 2009, 159, 2474-2477.	2.1	28
62	Adsorptive Removal of Dimethyl Disulfide in Olefin Rich C ₄ with Ion-Exchanged Zeolites. Industrial & Engineering Chemistry Research, 2011, 50, 6382-6390.	1.8	28
63	Characterizations of polybenzimidazole based electrochemical hydrogen pumps with various Pt loadings for H ₂ /CO ₂ gas separation. International Journal of Hydrogen Energy, 2013, 38, 14816-14823.	3.8	28
64	Preparation of porous carbons based on polyvinylidene fluoride for CO ₂ adsorption: A combined experimental and computational study. Microporous and Mesoporous Materials, 2016, 219, 59-65.	2.2	28
65	Coke Formation during Thermal Decomposition of Methylcyclohexane by Alkyl Substituted C ₅ Ring Hydrocarbons under Supercritical Conditions. Energy & Fuels, 2012, 26, 5121-5134.	2.5	27
66	Effects of La ₂ O ₃ on ZrO ₂ supported Ni catalysts for autothermal reforming of CH ₄ . Korean Journal of Chemical Engineering, 2011, 28, 402-408.	1.2	26
67	Improvement of the heats of reaction in endothermic reactions of methylcyclohexane with zeolites. Catalysis Today, 2012, 185, 47-53.	2.2	26
68	Synthesis of methacrylate copolymers and their effects as pour point depressants for lubricant oil. Journal of Applied Polymer Science, 2011, 120, 2579-2586.	1.3	25
69	Fast Dynamics and Relaxation of Colloidal Drops during the Drying Process Using Multispeckle Diffusing Wave Spectroscopy. Langmuir, 2013, 29, 861-866.	1.6	25
70	Catalytic endothermic reactions of <i>exo</i> -tetrahydrocyclopentadiene with zeolites and improvement of heat of reactions. Catalysis Today, 2014, 232, 63-68.	2.2	24
71	Preparation of Granular Ceramic Filter and Prediction of Its Collection Efficiency. Aerosol Science and Technology, 2014, 48, 1070-1079.	1.5	24
72	GaN-based light-emitting diodes on origami substrates. Applied Physics Letters, 2012, 100, .	1.5	23

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73	COMPARISON OF HEAT AND MASS TRANSFER IN FALLING FILM AND BUBBLE ABSORBERS OF AMMONIA-WATER. <i>Experimental Heat Transfer</i> , 2002, 15, 191-205.	2.3	22
74	A kinetic study on medium temperature desulfurization using a natural manganese ore. <i>Chemical Engineering Science</i> , 2003, 58, 2079-2087.	1.9	22
75	Removal of sulfur compounds in FCC raw C4 using activated carbon impregnated with CuCl and PdCl ₂ . <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 624-631.	1.2	21
76	Carbon nanotube-based nanocomposite desalination membranes from layer-by-layer assembly. <i>Desalination and Water Treatment</i> , 2010, 15, 76-83.	1.0	21
77	Inductively coupled plasma etching of nano-patterned sapphire for flip-chip GaN light emitting diode applications. <i>Thin Solid Films</i> , 2008, 516, 7744-7747.	0.8	20
78	Diesel pre-reforming over highly dispersed nano-sized Ni catalysts supported on MgO-Al ₂ O ₃ mixed oxides. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10941-10950.	3.8	19
79	Development of PIBSI type dispersants for carbon deposit from thermal oxidative decomposition of Jet A-1. <i>Fuel</i> , 2015, 158, 91-97.	3.4	19
80	Effect of sintering temperature in preparation of granular ceramic filter. <i>Ceramics International</i> , 2015, 41, 10030-10037.	2.3	19
81	Spray pyrolysis synthesis of MA ₂ O ₄ :Eu ²⁺ (M=Ba, Sr) phosphor for UV LED excitation. <i>Journal of Crystal Growth</i> , 2011, 326, 73-76.	0.7	18
82	Fabrication and characterization of the chlorine-tolerant disulfonated poly(arylene ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (s Desalination and Water Treatment, 2012, 43, 221-229.	1.0	18
83	Carbon Dioxide Capture Using Poly(ethylenimine)-Impregnated Poly(methyl methacrylate)-Supported Sorbents. <i>Energy & Fuels</i> , 2014, 28, 3994-4001.	2.5	18
84	Effect of amine double-functionalization on CO ₂ adsorption behaviors of silica gel-supported adsorbents. <i>Adsorption</i> , 2016, 22, 1137-1146.	1.4	18
85	Tar-formation kinetics and adsorption characteristics of pyrolyzed waste lubricating oil. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 70, 19-33.	2.6	17
86	Effect of Water Vapor on Carbon Monoxide Oxidation over Promoted Platinum Catalysts. <i>Catalysis Letters</i> , 2005, 103, 257-261.	1.4	17
87	Metal Effects on the Thermal Decomposition of <i>exo</i> -Tetrahydrodicyclopentadiene. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4395-4400.	1.8	17
88	White Light Emission from Blue InGaN LED with Fluorescent Conjugated Polymer Blends. <i>Polymer Journal</i> , 2009, 41, 1076-1079.	1.3	16
89	Characteristics of non-uniform reaction blocks for chemical heat pump. <i>Chemical Engineering Science</i> , 2005, 60, 1401-1409.	1.9	15
90	Effects of filler characteristics and processing conditions on the electrical, morphological and rheological properties of PE and PP with conductive filler composites. <i>Macromolecular Research</i> , 2009, 17, 110-115.	1.0	15

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91	Fabrication of White Light-Emitting Diodes Based on UV Light-Emitting Diodes with Conjugated Polymers-(CdSe/ZnS) Quantum Dots as Hybrid Phosphors. Journal of Nanoscience and Nanotechnology, 2012, 12, 5407-5411.	0.9	15
92	Highly active and CO ₂ tolerant Ir nanocatalysts for H ₂ /CO ₂ separation in electrochemical hydrogen pumps. Applied Catalysis B: Environmental, 2014, 158-159, 348-354.	10.8	15
93	Enhancement of the Light-Extraction Efficiency of GaN-Based Light Emitting Diodes Using Graded-Refractive-Index Layer by SiO ₂ Nanosphere Lithography. Journal of the Electrochemical Society, 2010, 157, H449.	1.3	14
94	Synthesis and Application of Non-Toxic ZnCuInS ₂ -ZnS Nanocrystals for White LED by Hybridization with Conjugated Polymer. Journal of the Electrochemical Society, 2011, 158, H1218.	1.3	13
95	Novel thin-film composite membrane for seawater desalination with sulfonated poly(arylene ether) Tj ETQq1 1 0.784314 rgBT /Overlook	1.0	13
96	Mechanistic Insights into Oxidative Decomposition of <i>exo</i> -Tetrahydrodicyclopentadiene. Journal of Physical Chemistry C, 2013, 117, 15933-15939.	1.5	13
97	Optimization of pyrolysis conditions of polyurethane for recycling of solid products. Journal of Analytical and Applied Pyrolysis, 2008, 82, 184-190.	2.6	12
98	Wet etching of non-polar gallium nitride light-emitting diode structure for enhanced light extraction. Journal of Crystal Growth, 2011, 326, 65-68.	0.7	12
99	Optimization of physical parameters of solid oxide fuel cell electrode using electrochemical model. Korean Journal of Chemical Engineering, 2011, 28, 1844-1850.	1.2	11
100	Mechanistic Insights into Thermal Stability Improvement of <i>exo</i> -Tetrahydrodicyclopentadiene by 1,2,3,4-Tetrahydroquinoline. Industrial & Engineering Chemistry Research, 2012, 51, 14949-14957.	1.8	11
101	Effect of Surfactant on CO ₂ Adsorption of APS-Grafted Silica Gel by One-Pot Process. Bulletin of the Chemical Society of Japan, 2016, 89, 823-832.	2.0	10
102	Energy-Efficient Sulfone Separation Process for the Production of Ultralow Sulfur Diesel by Two-Step Adsorption. Energy & Fuels, 2012, 26, 2168-2174.	2.5	9
103	Catalytic dechlorination of C ₅ compounds over metal-oxide/ZSM-5 catalysts. Journal of Industrial and Engineering Chemistry, 2013, 19, 1443-1447.	2.9	9
104	Effect of Amine Surface Density on CO ₂ Adsorption Behaviors of Amine-Functionalized Polystyrene. Bulletin of the Chemical Society of Japan, 2015, 88, 1317-1322.	2.0	9
105	Effect of Amine Structure on CO ₂ Adsorption of Modified Poly(ethyleneimine)-Impregnated Mesostructured Silica Sorbents. Bulletin of the Chemical Society of Japan, 2016, 89, 1462-1469.	2.0	9
106	Preparation of Tantalum Powder from Ta ₂ O ₅ by an Electrochemical Reduction in an LiCl-Li ₂ O Molten Salt System. Journal of Chemical Engineering of Japan, 2006, 39, 77-82.	0.3	8
107	Reduction of hydrogen peroxide production at anode of proton exchange membrane fuel cell under open-circuit conditions using ruthenium-carbon catalyst. Journal of Power Sources, 2007, 170, 281-285.	4.0	8
108	Microtexture and electrical properties of PAN-ACF. Journal of Materials Science, 2007, 42, 2486-2491.	1.7	8

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109	Luminous properties of SrGa ₂ S ₃ Se phosphors doped with Eu ²⁺ for LEDs application. Materials Letters, 2011, 65, 474-476.	1.3	8
110	Luminous properties of color tunable strontium thio-selenide phosphors for LEDs application. Materials Letters, 2011, 65, 2690-2692.	1.3	8
111	Electrochemical Study on the Reduction Mechanism of Uranium Oxide in a LiCl-Li ₂ O Molten Salt. Journal of Nuclear Science and Technology, 2006, 43, 587-595.	0.7	8
112	Thermal properties of blends of a thermotropic liquid crystalline copolyester of poly(hydroxy) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	1.7	7
113	Spray pyrolysis prepared yellow to red color tunable Sr _{1-x} Ca _x Se:Eu ²⁺ phosphors for white LED. Optics Express, 2012, 20, 12885.	1.7	7
114	Luminous properties of Sr _{1-x} Zn _x Se:Eu ²⁺ phosphors for LEDs application. Journal of Crystal Growth, 2011, 326, 77-80.	0.7	6
115	Warm with high color rendering index white light from hybridization of Ca ₂ BO ₃ Cl:Eu ²⁺ yellow phosphor and CdSe/ZnS nanocrystals. Journal of Industrial and Engineering Chemistry, 2013, 19, 1743-1746.	2.9	6
116	Thermal Stability Improvement of <i>exo</i> -Tetrahydrocyclopentadiene by 1,2,3,4-Tetrahydroquinoxaline: Mechanism and Kinetics. Journal of Physical Chemistry C, 2013, 117, 7399-7407.	1.5	6
117	Mathematical Modeling and Simulation for Marangoni Convection by Surfactants in Liquid Falling Film.. Journal of Chemical Engineering of Japan, 2003, 36, 259-264.	0.3	6
118	Effect of steam on coking in the non-catalytic pyrolysis of naphtha components. Korean Journal of Chemical Engineering, 2004, 21, 252-256.	1.2	5
119	Development of Au~Pd catalysts supported on carbon for a direct borohydride fuel cell. Research on Chemical Intermediates, 2008, 34, 787-792.	1.3	5
120	Pore size control through benzene vapor deposition on activated carbon. Chemical Engineering Journal, 2008, 144, 167-174.	6.6	5
121	Characterization and Photoluminescence of CdS Nanoparticles Synthesized in Diethyl Ether~Sodium Dioctylsulfosuccinate~Water Microemulsion System. Japanese Journal of Applied Physics, 2007, 46, 6878-6881.	0.8	4
122	GaN-based light-emitting diodes by laser lift-off with micro- and nano-sized reflectors. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, 050605.	0.9	4
123	Characteristics of MgO-coated alkaline Earth selenide phosphor prepared by spray pyrolysis. Thin Solid Films, 2013, 546, 98-103.	0.8	4
124	Characterization of surface modified ZnCuInS ₂ nanocrystals and its application to white light-emitting diodes. Applied Optics, 2013, 52, 1992.	0.9	4
125	Growth behavior and field emission property of ZnO nanowire arrays on Au and Ag films. AIP Advances, 2013, 3, .	0.6	4
126	Fabrication of highly stable silica coated ZnCuInS nanocrystals monolayer via layer by layer deposition for LED application. Optics Express, 2014, 22, 2483.	1.7	4

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127	Mechanistic Insights into Thermal Stability Improvement of <i>exo</i> -Tetrahydrocyclopentadiene by a New Hydrogen Donor: 5,6,7,8-Tetrafluoro-1,2,3,4-tetrahydroquinoxaline. <i>Energy & Fuels</i> , 2015, 29, 16-20.	2.5	4
128	Effects of vibrations in marine environments on performance of molten-carbonate fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 18732-18738.	3.8	4
129	A Study of a Regeneration Reaction for Desulfurization Sorbents Using Natural Manganese Ore. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 835-841.	0.3	4
130	Kinetic study on degradation of gaseous acetone over thin-film TiO ₂ photocatalyst in a continuous flow system. <i>Reaction Kinetics and Catalysis Letters</i> , 2007, 90, 85-91.	0.6	3
131	Autothermal reforming of methane to syngas using co-precipitated Ni ²⁺ (La ₂ O ₃) _x (ZrO ₂) _{1-x} catalyst. <i>Research on Chemical Intermediates</i> , 2008, 34, 781-786.	1.3	3
132	Preparation of Blue-Emitting Phosphorescent Iridium(III) Complex Under Ultrasound Reaction. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 499, 26/[348]-37/[359].	0.4	3
133	Sulfonated poly(arylene ether sulfone) RO membranes for high water flux and chlorine resistance. <i>Desalination and Water Treatment</i> , 2010, 15, 205-213.	1.0	3
134	Polarization characteristics and fuel utilization in anode-supported solid oxide fuel cell using three-dimensional simulation. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 143-148.	1.2	3
135	A facile method for flexible GaN-based light-emitting diodes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012, 6, 421-423.	1.2	3
136	Effect of Cs ₂ CO ₃ in Li/K and Li/Na Carbonate on the Oxygen Reduction Reaction for MCFC. <i>Journal of the Electrochemical Society</i> , 2016, 163, F962-F967.	1.3	3
137	Numerical and Experimental Study for Falling Film in Ammonia Absorption Refrigeration Systems. <i>Journal of Chemical Engineering of Japan</i> , 2005, 38, 520-527.	0.3	3
138	Study on the Characteristics of the Ion Exchange of Zeolite 4A in a Molten LiCl System. <i>Journal of Chemical Engineering of Japan</i> , 2006, 39, 27-33.	0.3	3
139	Synthesis and characterization of Mn, Pr doped ZnS and CdS/ZnS nanoparticles. <i>Studies in Surface Science and Catalysis</i> , 2006, 159, 757-760.	1.5	2
140	Effect of process conditions on dynamics and performance of PEMFC: Comparison with experiments. <i>Thin Solid Films</i> , 2010, 518, 6505-6509.	0.8	2
141	White Organic Light-Emitting Diodes Utilized by Near UV-Deep Blue Emitter and Exciplex Emission. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 1381-1384.	0.9	2
142	Sonochemical Synthesis and Photocurrent of HgTe NANOPARTICLES. <i>Key Engineering Materials</i> , 2005, 277-279, 961-965.	0.4	1
143	Investigation of Scandia Stabilized Zirconia(ScSZ) - Yttria Stabilized Zirconia(YSZ) Composite Electrolyte for Intermediate Temperature Fuel Cells. <i>Solid State Phenomena</i> , 2007, 124-126, 795-798.	0.3	1
144	Optical characterizations of GaN nanorods fabricated by natural lithography. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 693-696.	1.2	1

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145	Preparation of Janus Silica Particles with Organo-Silane Compounds Using Polystyrene Trapping Layer. Journal of Nanoscience and Nanotechnology, 2014, 14, 7990-7994.	0.9	1
146	A study of the characteristics of heat transfer for an ammonia-water bubble mode absorber in absorption heat pump systems. Korean Journal of Chemical Engineering, 2002, 19, 552-556.	1.2	0
147	Sr _{0.95} Zn _{0.05} Se:Eu ²⁺ and CdSe/ZnS Nanocrystals Hybrid Phosphors for Enhancing Color Rendering Index of White Light Emitting Diode. Journal of Nanoscience and Nanotechnology, 2012, 12, 6069-6073.	0.9	0