

Jonghoep Yi

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269
papers

8,652
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49
h-index

80
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273
ext. papers

9,294
ext. citations

6
avg, IF

5.99
L-index

#	Paper	IF	Citations
269	Arsenic removal using mesoporous alumina prepared via a templating method. <i>Environmental Science & Technology</i> , 2004 , 38, 924-31	10.3	522
268	Kinetics of removal of chromium from water and electronic process wastewater by ion exchange resins: 1200H, 1500H and IRN97H. <i>Journal of Hazardous Materials</i> , 2003 , 102, 257-75	12.8	380
267	Synthesis of functionalized porous silicas via templating method as heavy metal ion adsorbents: the introduction of surface hydrophilicity onto the surface of adsorbents. <i>Microporous and Mesoporous Materials</i> , 2001 , 50, 77-90	5.3	247
266	Functional analyses of nanoparticle toxicity: a comparative study of the effects of TiO ₂ and Ag on tomatoes (<i>Lycopersicon esculentum</i>). <i>Ecotoxicology and Environmental Safety</i> , 2013 , 93, 60-7	7	221
265	A combination of two visible-light responsive photocatalysts for achieving the Z-scheme in the solid state. <i>ACS Nano</i> , 2011 , 5, 4084-90	16.7	192
264	Selective Activation of Methane on Single-Atom Catalyst of Rhodium Dispersed on Zirconia for Direct Conversion. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17694-17699	16.4	186
263	Synthesis and characterization of mesoporous alumina with nickel incorporated for use in the partial oxidation of methane into synthesis gas. <i>Applied Catalysis A: General</i> , 2004 , 272, 157-166	5.1	175
262	Removal of copper from aqueous solution by aminated and protonated mesoporous aluminas: kinetics and equilibrium. <i>Journal of Colloid and Interface Science</i> , 2004 , 273, 14-21	9.3	172
261	Electrochemical capacitor performance of N-doped mesoporous carbons prepared by ammoxidation. <i>Journal of Power Sources</i> , 2008 , 180, 671-675	8.9	168
260	Influence of Aspect Ratio of TiO ₂ Nanorods on the Photocatalytic Decomposition of Formic Acid. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3050-3055	3.8	157
259	Highly Selective Adsorption of Pt ²⁺ and Pd ²⁺ Using Thiol-Functionalized Mesoporous Silica. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 1478-1484	3.9	157
258	Ordered mesoporous silica (SBA-15) derivatized with imidazole-containing functionalities as a selective adsorbent of precious metal ions. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1043		142
257	Photocatalytic activation of TiO ₂ under visible light using Acid Red 44. <i>Catalysis Today</i> , 2003 , 87, 77-86	5.3	121
256	One step preparation of Mn ₃ O ₄ /graphene composites for use as an anode in Li ion batteries. <i>Journal of Power Sources</i> , 2013 , 244, 56-62	8.9	117
255	Bacterial cytotoxicity of the silver nanoparticle related to physicochemical metrics and agglomeration properties. <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 2154-60	3.8	103
254	Preparation of ordered mesoporous carbon nanopipes with controlled nitrogen species for application in electrical double-layer capacitors. <i>Journal of Power Sources</i> , 2010 , 195, 2125-2129	8.9	87
253	Carbon-doped TiO ₂ nanoparticles wrapped with nanographene as a high performance photocatalyst for phenol degradation under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2014 , 144, 893-899	21.8	85

252	Preparation of energy storage material derived from a used cigarette filter for a supercapacitor electrode. <i>Nanotechnology</i> , 2014 , 25, 345601	3.4	85
251	Hot-electron-transfer enhancement for the efficient energy conversion of visible light. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11203-7	16.4	80
250	Preparation of nitrogen-doped mesoporous carbon nanopipes for the electrochemical double layer capacitor. <i>Carbon</i> , 2009 , 47, 1407-1411	10.4	79
249	NaBH ₄ -assisted ethylene glycol reduction for preparation of carbon-supported Pt catalyst for methanol electro-oxidation. <i>Journal of Power Sources</i> , 2006 , 160, 987-990	8.9	78
248	Batch adsorptive removal of copper ions in aqueous solutions by ion exchange resins: 1200H and IRN97H. <i>Korean Journal of Chemical Engineering</i> , 2004 , 21, 187-194	2.8	76
247	Surface plasmon resonance analysis of aqueous mercuric ions. <i>Sensors and Actuators B: Chemical</i> , 2004 , 99, 216-222	8.5	74
246	Distinct activation of Cu-MOR for direct oxidation of methane to methanol. <i>Chemical Communications</i> , 2017 , 53, 4116-4119	5.8	71
245	Preparation of Mesoporous Catalyst Supported on Silica with Finely Dispersed Ni Particles. <i>Catalysis Letters</i> , 2002 , 81, 89-96	2.8	70
244	A synthesis of graphene/Co ₃ O ₄ thin films for lithium ion battery anodes by coelectrodeposition. <i>Electrochemistry Communications</i> , 2012 , 22, 93-96	5.1	68
243	Preparation and characterization of nanocrystalline CuAl ₂ O ₄ spinel catalysts by sol-gel method for the hydrogenolysis of glycerol. <i>Catalysis Communications</i> , 2012 , 24, 90-95	3.2	66
242	Preparation and characterization of Fe-doped TiO ₂ nanoparticles as a support for a high performance CO oxidation catalyst. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12629		65
241	Sensitive and colorimetric detection of the structural evolution of superoxide dismutase with gold nanoparticles. <i>Analytical Chemistry</i> , 2009 , 81, 1378-82	7.8	65
240	Removal characteristics of engineered nanoparticles by activated sludge. <i>Chemosphere</i> , 2013 , 92, 524-8	8.4	64
239	Biofilm-inactivating activity of silver nanoparticles: A comparison with silver ions. <i>Journal of Industrial and Engineering Chemistry</i> , 2013 , 19, 614-619	6.3	63
238	Preparation of polyelectrolyte-functionalized mesoporous silicas for the selective adsorption of anionic dye in an aqueous solution. <i>Journal of Hazardous Materials</i> , 2009 , 168, 102-7	12.8	63
237	Single-step preparation of Ni catalysts supported on mesoporous silicas (SBA-15 and SBA-16) and the effect of pore structure on the selective hydrodechlorination of 1,1,2-trichloroethane to VCM. <i>Catalysis Today</i> , 2004 , 97, 195-203	5.3	63
236	Characterization of exposure to silver nanoparticles in a manufacturing facility. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 1705-1712	2.3	60
235	Preparation of novel ceramic membranes modified by mesoporous silica with 3-aminopropyltriethoxysilane (APTES) and its application to Cu ²⁺ separation in the aqueous phase. <i>Journal of Membrane Science</i> , 2007 , 301, 118-125	9.6	60

234	Promoter effect of Pd in CuCr2O4 catalysts on the hydrogenolysis of glycerol to 1,2-propanediol. <i>Green Chemistry</i> , 2012 , 14, 2638	10	57
233	Facile preparation of high performance visible light sensitive photo-catalysts. <i>Applied Catalysis B: Environmental</i> , 2010 , 94, 241-247	21.8	57
232	Simple preparation of hollow carbon sphere via templating method. <i>Current Applied Physics</i> , 2008 , 8, 814-817	2.6	57
231	Effect of preparation conditions on the phase transformation of mesoporous alumina. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 550-556	3.9	57
230	Preparation of mesoporous carbon templated by silica particles for use as a catalyst support in polymer electrolyte membrane fuel cells. <i>Catalysis Today</i> , 2006 , 111, 171-175	5.3	57
229	Core-satellites assembly of silver nanoparticles on a single gold nanoparticle via metal ion-mediated complex. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12083-90	16.4	55
228	Transparent and ultra-bendable all-solid-state supercapacitors without percolation problems. <i>Chemical Science</i> , 2013 , 4, 1663	9.4	54
227	Hydrogenation of succinic acid to tetrahydrofuran (THF) over rhenium catalyst supported on H2SO4-treated mesoporous carbon. <i>Applied Catalysis A: General</i> , 2012 , 415-416, 141-148	5.1	54
226	Simple synthesis of graphitic porous carbon by hydrothermal method for use as a catalyst support in methanol electro-oxidation. <i>Catalysis Communications</i> , 2008 , 10, 267-271	3.2	54
225	Preparation and application of nanoporous carbon templated by silica particle for use as a catalyst support for direct methanol fuel cell. <i>Journal of Power Sources</i> , 2005 , 145, 139-146	8.9	52
224	All-solid-state, origami-type foldable supercapacitor chips with integrated series circuit analogues. <i>Energy and Environmental Science</i> , 2014 , 7, 1095	35.4	51
223	Synthesis and Characterization of Mesoporous Alumina as a Catalyst Support for Hydrodechlorination of 1,2-Dichloropropane: Effect of Catalyst Preparation Method. <i>Catalysis Letters</i> , 2003 , 89, 185-192	2.8	51
222	Reversible pH-driven conformational switching of tethered superoxide dismutase with gold nanoparticle enhanced surface plasmon resonance spectroscopy. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12870-8	16.4	50
221	REMOVAL OF COPPER IONS USING FUNCTIONALIZED MESOPOROUS SILICA IN AQUEOUS SOLUTION. <i>Separation Science and Technology</i> , 2001 , 36, 2433-2448	2.5	49
220	Biomarker gene response in male Medaka (<i>Oryzias latipes</i>) chronically exposed to silver nanoparticle. <i>Ecotoxicology and Environmental Safety</i> , 2012 , 78, 239-45	7	48
219	Activated carbon aerogel containing graphene as electrode material for supercapacitor. <i>Materials Research Bulletin</i> , 2014 , 50, 240-245	5.1	46
218	Effect of TiO2 crystalline phase on CO oxidation over CuO catalysts supported on TiO2. <i>Journal of Molecular Catalysis A</i> , 2013 , 368-369, 72-77		46
217	Preparation and characterization of metal-doped carbon aerogel for supercapacitor. <i>Current Applied Physics</i> , 2010 , 10, 947-951	2.6	46

216	Effect of nickel precursor on the catalytic performance of Ni/Al ₂ O ₃ catalysts in the hydrodechlorination of 1,1,2-trichloroethane. <i>Journal of Molecular Catalysis A</i> , 2006 , 256, 178-183		46
215	Preparation of Functionalized Mesostructured Silica Containing Magnetite (MSM) for the Removal of Copper Ions in Aqueous Solutions and Its Magnetic Separation. <i>Separation Science and Technology</i> , 2003 , 38, 2533-2548	2.5	45
214	Synthesis of tailored porous alumina with a bimodal pore size distribution. <i>Materials Research Bulletin</i> , 2004 , 39, 2103-2112	5.1	44
213	Synthesis and characterization of mesoporous alumina for use as a catalyst support in the hydrodechlorination of 1,2-dichloropropane: effect of preparation condition of mesoporous alumina. <i>Journal of Molecular Catalysis A</i> , 2004 , 219, 87-95		43
212	Eco-toxicity of commercial silver nanopowders to bacterial and yeast strains. <i>Biotechnology and Bioprocess Engineering</i> , 2009 , 14, 490-495	3.1	42
211	Effect of nickel on catalytic behaviour of bimetallic Cu/Ni catalyst supported on mesoporous alumina for the hydrogenolysis of glycerol to 1,2-propanediol. <i>Catalysis Science and Technology</i> , 2014 , 4, 3191-3202	5.5	41
210	Hybrid MnO ₂ film with agarose gel for enhancing the structural integrity of thin film supercapacitor electrodes. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9908-12	9.5	41
209	Lithium metal anode on a copper dendritic superstructure. <i>Electrochemistry Communications</i> , 2019 , 99, 27-31	5.1	41
208	Synthesis of porous NiO materials with preferentially oriented crystalline structures with enhanced stability as lithium ion battery anodes. <i>Journal of Power Sources</i> , 2013 , 237, 172-177	8.9	39
207	Fabrication and design equation of film-type large-scale interdigitated supercapacitor chips. <i>Nanoscale</i> , 2012 , 4, 7350-3	7.7	39
206	In situ observation of biomolecules patterned on a PEG-modified Si surface by scanning probe lithography. <i>Biomaterials</i> , 2006 , 27, 4655-60	15.6	39
205	Phase separation of a mixed self-assembled monolayer prepared via a stepwise method. <i>Langmuir</i> , 2006 , 22, 4885-9	4	39
204	A novel method for synthesis of a Ni/Al ₂ O ₃ catalyst with a mesoporous structure using stearic acid salts. <i>Journal of Materials Chemistry</i> , 2003 , 13, 2353		39
203	Surface plasmon resonance analysis of aqueous copper ions with amino-terminated self-assembled monolayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 292, 264-270	5.1	38
202	Preparation, characterization, and catalytic activity of NiMg catalysts supported on mesoporous alumina for hydrodechlorination of o-dichlorobenzene. <i>Journal of Molecular Catalysis A</i> , 2005 , 231, 247-254		37
201	Tuning the band-gap energy of TiO ₂ -xCx nanoparticle for high performance photo-catalyst. <i>Electrochemistry Communications</i> , 2010 , 12, 769-772	5.1	36
200	Simple preparation of tungsten carbide supported on carbon for use as a catalyst support in a methanol electro-oxidation. <i>Materials Letters</i> , 2008 , 62, 3497-3499	3.3	36
199	Graphitic spherical carbon as a support for a PtRu-alloy catalyst in the methanol electro-oxidation. <i>Catalysis Letters</i> , 2006 , 112, 213-218	2.8	36

198	Effects of catalyst pore structure and acid properties on the dehydration of glycerol. <i>ChemSusChem</i> , 2015 , 8, 974-9	8.3	35
197	The Promotion Effect of Cr on Copper Catalyst in Hydrogenolysis of Glycerol to Propylene Glycol. <i>Topics in Catalysis</i> , 2010 , 53, 517-522	2.3	35
196	Supercapacitive electrochemical performance of graphene-containing carbon aerogel prepared using polyethyleneimine-modified graphene oxide. <i>Current Applied Physics</i> , 2013 , 13, 945-949	2.6	34
195	Preparation and characterization of mesoporous Zr-WO _x /SiO ₂ catalysts for the esterification of 1-butanol with acetic acid. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10021		34
194	Tuning the Structural Color of a 2D Photonic Crystal Using a Bowl-like Nanostructure. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15802-8	9.5	33
193	Preferential growth of Co ₃ O ₄ anode material with improved cyclic stability for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3872	13	33
192	The Removal of Copper Ions from Aqueous Solutions Using Silica Supports Immobilized with 2-Hydroxy-5-nonylacetophenoneoxime. <i>Separation Science and Technology</i> , 1999 , 34, 2957-2971	2.5	33
191	Mechanistic study of glycerol dehydration on Brønsted acidic amorphous aluminosilicate. <i>Journal of Catalysis</i> , 2016 , 341, 33-43	7.3	33
190	A mesoporous carbon-supported Pt nanocatalyst for the conversion of lignocellulose to sugar alcohols. <i>ChemSusChem</i> , 2013 , 6, 2281-9	8.3	32
189	Characterization of photocatalytic performance of silver deposited TiO ₂ nanorods. <i>Electrochemistry Communications</i> , 2009 , 11, 363-366	5.1	32
188	Hazard potential of perovskite solar cell technology for potential implementation of "safe-by-design" approach. <i>Scientific Reports</i> , 2019 , 9, 4242	4.9	30
187	Rational Design of a Bifunctional Catalyst for the Oxydehydration of Glycerol: A Combined Theoretical and Experimental Study. <i>ACS Catalysis</i> , 2015 , 5, 82-94	13.1	30
186	Preparation of coral-like porous gold for metal ion detection. <i>Microporous and Mesoporous Materials</i> , 2009 , 122, 283-287	5.3	30
185	Hydrogenation of succinic acid to tetrahydrofuran (THF) over ruthenium-carbon composite (Ru/C) catalyst. <i>Applied Catalysis A: General</i> , 2014 , 469, 466-471	5.1	29
184	Modified Simulation of Methane Steam Reforming in Pd-Membrane/Packed-Bed Type Reactor.. <i>Journal of Chemical Engineering of Japan</i> , 1999 , 32, 760-769	0.8	29
183	Interfacial Adsorption and Redox Coupling of Li ₄ Ti ₅ O ₁₂ with Nanographene for High-Rate Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16565-72	9.5	28
182	On-chip colorimetric detection of Cu ²⁺ ions via density-controlled plasmonic core-satellites nanoassembly. <i>Analytical Chemistry</i> , 2013 , 85, 7980-6	7.8	28
181	Nanoporous hexagonal TiO ₂ superstructure as a multifunctional material for energy conversion and storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3500-3510	13	28

180	Mesoporous siliconiobium phosphate as a pure Brønsted acid catalyst with excellent performance for the dehydration of glycerol to acrolein. <i>ChemSusChem</i> , 2012 , 5, 2460-8	8.3	28
179	Effects of textured morphology on the short circuit current of single crystalline silicon solar cells: Evaluation of alkaline wet-texture processes. <i>Current Applied Physics</i> , 2009 , 9, 1310-1314	2.6	28
178	Methanol-tolerant PdPt/C alloy catalyst for oxygen electro-reduction reaction. <i>Korean Journal of Chemical Engineering</i> , 2008 , 25, 770-774	2.8	27
177	In situ sensing of metal ion adsorption to a thiolated surface using surface plasmon resonance spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2006 , 298, 543-9	9.3	27
176	Enhancement of surface plasmon resonance (SPR) signals using organic functionalized mesoporous silica on a gold film. <i>Sensors and Actuators B: Chemical</i> , 2006 , 114, 1096-1099	8.5	27
175	Preparation of NaCl-incorporated plugged mesoporous silica using a cost-effective precursor and applications to the hydrodechlorination of chlorinated hydrocarbons. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1050		27
174	A facile approach for the preparation of tunable acid nano-catalysts with a hierarchically mesoporous structure. <i>Chemical Communications</i> , 2014 , 50, 7652-5	5.8	26
173	Preparation and Characterization of Ceramic Hollow Microspheres for Heavy Metal Ion Removal in Wastewater. <i>Journal of Colloid and Interface Science</i> , 2000 , 230, 367-376	9.3	26
172	Synthesis and characterization of carbon-doped titania as a visible-light-sensitive photocatalyst. <i>Korean Journal of Chemical Engineering</i> , 2008 , 25, 892-896	2.8	25
171	Fabrication of reusable sensor for detection of Cu ²⁺ in an aqueous solution using a self-assembled monolayer with surface plasmon resonance spectroscopy. <i>Chemical Communications</i> , 2005 , 3721-3	5.8	25
170	Encapsulation method for the dispersion of NiO onto ordered mesoporous silica, SBA-15, using polyethylene oxide (PEO). <i>Journal of Colloid and Interface Science</i> , 2006 , 295, 464-71	9.3	25
169	A tailored catalyst for the sustainable conversion of glycerol to acrolein: mechanistic aspect of sequential dehydration. <i>ChemSusChem</i> , 2014 , 7, 2193-201	8.3	24
168	Bacterial uptake of silver nanoparticles in the presence of humic acid and AgNO ₃ . <i>Korean Journal of Chemical Engineering</i> , 2011 , 28, 267-271	2.8	23
167	Hydrogenation of Succinic Acid to γ -Butyrolactone over Palladium Catalyst Supported on Mesoporous Alumina Xerogel. <i>Catalysis Letters</i> , 2010 , 138, 28-33	2.8	23
166	Synthesis of mesoporous γ -alumina through pre- and post-hydrolysis methods. <i>Korean Journal of Chemical Engineering</i> , 2002 , 19, 908-910	2.8	23
165	Interfacial Synthesis of Two-Dimensional Dendritic Platinum Nanoparticles Using Oleic Acid-in-Water Emulsion. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10666-70	9.5	22
164	Polymer-mediated synthesis of a nitrogen-doped carbon aerogel with highly dispersed Pt nanoparticles for enhanced electrocatalytic activity. <i>Electrochimica Acta</i> , 2016 , 193, 137-144	6.7	22
163	Dispersion stability of citrate- and PVP-AgNPs in biological media for cytotoxicity test. <i>Korean Journal of Chemical Engineering</i> , 2013 , 30, 671-674	2.8	22

162	Promotional Effect of Ni on a CrO _x Catalyst Supported on Silica in the Oxidative Dehydrogenation of Propane with CO ₂ . <i>ChemCatChem</i> , 2012 , 4, 1952-1959	5.2	22
161	Picomolar selective detection of mercuric ion (Hg(2+)) using a functionalized single plasmonic gold nanoparticle. <i>Nanotechnology</i> , 2010 , 21, 145501	3.4	22
160	Preparation of Pt supported on mesoporous carbons for the reduction of oxygen in polymer electrolyte membrane fuel cell (PEMFC). <i>Journal of Electroceramics</i> , 2006 , 17, 713-718	1.5	22
159	Gas-phase dehydration of vicinal diols to epoxides: Dehydrative epoxidation over a Cs/SiO ₂ catalyst. <i>Journal of Catalysis</i> , 2015 , 323, 85-99	7.3	21
158	Hot-Electron-Transfer Enhancement for the Efficient Energy Conversion of Visible Light. <i>Angewandte Chemie</i> , 2014 , 126, 11385-11389	3.6	21
157	The effects of using structurally less-stable raw materials for the support of a spray-dried oxygen carrier with high NiO content. <i>Fuel</i> , 2012 , 102, 106-114	7.1	21
156	Effect of the preparation conditions of carbon-supported Pt catalyst on PEMFC performance. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 135-140	2.6	21
155	Aspect ratio controlled synthesis of gold nanorods. <i>Korean Journal of Chemical Engineering</i> , 2003 , 20, 1145-1148	2.8	21
154	Preparation of modified silica for heavy metal removal. <i>Korean Journal of Chemical Engineering</i> , 2000 , 17, 118-121	2.8	21
153	Selective removal of copper ions from aqueous solutions using modified silica beads impregnated with LIX 84. <i>Journal of Chemical Technology and Biotechnology</i> , 1999 , 74, 544-550	3.5	21
152	NH ₃ -activated polyaniline for use as a high performance electrode material in supercapacitors. <i>Electrochimica Acta</i> , 2012 , 78, 340-346	6.7	20
151	Capturing Coke Precursors in a Pd Lattice: A Carbon-Supported Heteropoly Acid Catalyst for the Dehydration of Glycerol into Acrolein. <i>ChemCatChem</i> , 2012 , 4, 836-843	5.2	20
150	Finely-dispersed Ni/Cu catalysts supported on mesoporous silica for the hydrodechlorination of chlorinated hydrocarbons. <i>Studies in Surface Science and Catalysis</i> , 2003 , 146, 637-640	1.8	20
149	Effect of valence band energy on the photocatalytic performance of N-doped TiO ₂ for the production of O ₂ via the oxidation of water by visible light. <i>Journal of Molecular Catalysis A</i> , 2013 , 378, 221-226		19
148	A brain-coral-inspired metal-carbon hybrid synthesized using agarose gel for ultra-fast charge and discharge supercapacitor electrodes. <i>Chemical Communications</i> , 2013 , 49, 1554-6	5.8	19
147	Label-free sensitive optical detection of polychlorinated biphenyl (PCB) in an aqueous solution based on surface plasmon resonance measurements. <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 300-306	8.5	19
146	Direct observation of a cooperative mechanism in the adsorption of heavy metal ions to thiolated surface by in-situ surface plasmon resonance measurements. <i>Chemical Communications</i> , 2005 , 2360-2	5.8	19
145	Enhancement in photocatalytic oxygen evolution via water oxidation under visible light on nitrogen-doped TiO ₂ nanorods with dominant reactive {102} facets. <i>Catalysis Communications</i> , 2014 , 43, 11-15	3.2	18

144	Effect of Framework and Textural Porosities of Functionalized Mesoporous Silica on Metal Ion Adsorption Capacities. <i>Separation Science and Technology</i> , 2005 , 39, 1427-1442	2.5	18
143	In-situ analysis of stepwise self-assembled 1,6-hexanedithiol multilayers by surface plasmon resonance measurements. <i>Chemical Communications</i> , 2002 , 2094-5	5.8	18
142	Exploring crystal phase and morphology in the TiO ₂ supporting materials used for visible-light driven plasmonic photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2016 , 198, 91-99	21.8	18
141	Effect of agglomeration of silver nanoparticle on nanotoxicity depression. <i>Korean Journal of Chemical Engineering</i> , 2013 , 30, 364-368	2.8	17
140	Toxic effects of titanium dioxide nanoparticles on microbial activity and metabolic flux. <i>Biotechnology and Bioprocess Engineering</i> , 2012 , 17, 276-282	3.1	17
139	Synthesis of superacidic mesoporous alumina and its application in the dehydration of glycerol. <i>Korean Journal of Chemical Engineering</i> , 2008 , 25, 1014-1017	2.8	17
138	Kinetics of the dehydration of glycerol over acid catalysts with an investigation of deactivation mechanism by coke. <i>Applied Catalysis B: Environmental</i> , 2015 , 176-177, 1-10	21.8	16
137	Design of an efficient photocatalytic reactor for the decomposition of gaseous organic contaminants in air. <i>Chemical Engineering Journal</i> , 2012 , 187, 203-209	14.7	16
136	Effect of preparation method on structure and catalytic activity of Cr-promoted Cu catalyst in glycerol hydrogenolysis. <i>Korean Journal of Chemical Engineering</i> , 2010 , 27, 431-434	2.8	16
135	Preparation via an electrochemical method of graphene films coated on both sides with NiO nanoparticles for use as high-performance lithium ion anodes. <i>Nanotechnology</i> , 2013 , 24, 475402	3.4	15
134	Effect of 3D open-pores on the dehydration of n-butanol to di-n-butyl ether (DNBE) over a supported heteropolyacid catalyst. <i>Chemical Engineering Journal</i> , 2013 , 228, 889-895	14.7	15
133	Kinetic and Mechanistic Insights into the All-Solid-State Z-Schematic System. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29583-29590	3.8	15
132	Directed positioning of single cells in microwells fabricated by scanning probe lithography and wet etching methods. <i>Langmuir</i> , 2008 , 24, 2597-602	4	15
131	Enhancement of topographic images obtained in liquid media by atomic force microscopy. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 20526-32	3.4	15
130	Synthesis of mesoporous Aluminas of controlled pore properties using alkyl carboxylate assisted method. <i>Studies in Surface Science and Catalysis</i> , 2003 , 146, 209-212	1.8	15
129	Synthesis of mesoporous alumina by using a cost-effective template. <i>Korean Journal of Chemical Engineering</i> , 2003 , 20, 1142-1144	2.8	15
128	Adsorption of acid dyes using polyelectrolyte impregnated mesoporous silica. <i>Korean Journal of Chemical Engineering</i> , 2005 , 22, 276-280	2.8	15
127	Comparison of mesoporous aluminas synthesized using stearic acid and its salts. <i>Korean Journal of Chemical Engineering</i> , 2005 , 22, 321-327	2.8	15

126	Zinc Ion Removal from Aqueous Solutions Using Modified Silica Impregnated with 2-Ethylhexyl 2-Ethylhexyl Phosphonic Acid. <i>Separation Science and Technology</i> , 2000 , 35, 1901-1916	2.5	15
125	Solution based, on chip direct growth of three-dimensionally wrinkled gold nanoparticles for a SERS active substrate. <i>Chemical Communications</i> , 2015 , 51, 213-6	5.8	14
124	Selective production of 1,3-butadiene using glucose fermentation liquor. <i>Green Chemistry</i> , 2014 , 16, 3501-3507	14	
123	Hydrogenation of succinic acid to tetrahydrofuran over ruthenium-carbon composite catalysts: Effect of HCl concentration in the preparation of the catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 3834-3840	6.3	14
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