

Seong Ihl Woo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

179
papers

8,101
citations

42
h-index

86
g-index

179
ext. papers

8,617
ext. citations

5.7
avg, IF

6.21
L-index

#	Paper	IF	Citations
179	Fluorophore Metal-Organic Complexes: High-Throughput Optical Screening for Aprotic Electrochemical Systems. <i>ACS Combinatorial Science</i> , 2017 , 19, 81-84	3.9	1
178	International Symposium on Catalytic Conversion of Energy & Resources, 2016. <i>Topics in Catalysis</i> , 2017 , 60, 635-636	2.3	
177	Investigation for the effects of ball milling process on the physical characteristics, the behaviors of carriers and the photocatalytic activity of sulfur doped g-C ₃ N ₄ . <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 5485-5495	6.7	15
176	Nanometer-thick amorphous-SnO ₂ layer as an oxygen barrier coated on a transparent AZO electrode. <i>Electronic Materials Letters</i> , 2016 , 12, 499-505	2.9	4
175	Dimensional tailoring of nitrogen-doped graphene for high performance supercapacitors. <i>RSC Advances</i> , 2016 , 6, 55577-55583	3.7	4
174	Hierarchical Cu pillar electrodes for electrochemical CO ₂ reduction to formic acid with low overpotential. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 6252-8	3.6	40
173	Enhanced hydrothermal stability of ZSM-5 formed from nanocrystalline seeds for naphtha catalytic cracking. <i>Journal of Materials Science</i> , 2016 , 51, 3735-3749	4.3	12
172	Vacuum residue upgrading through hydroprocessing with subcritical water. <i>Catalysis Today</i> , 2016 , 265, 118-123	5.3	7
171	Amide linked conjugated porous polymers for effective CO ₂ capture and separation. <i>Journal of CO₂ Utilization</i> , 2016 , 16, 486-491	7.6	26
170	Diamond@carbon-onion hybrid nanostructure as a highly promising electrocatalyst for the oxygen reduction reaction. <i>RSC Advances</i> , 2016 , 6, 27528-27534	3.7	10
169	Highly Efficient, Selective, and Stable CO ₂ Electroreduction on a Hexagonal Zn Catalyst. <i>Angewandte Chemie</i> , 2016 , 128, 9443-9446	3.6	41
168	Highly Efficient, Selective, and Stable CO ₂ Electroreduction on a Hexagonal Zn Catalyst. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9297-300	16.4	227
167	Optimization of catalyst layer composition for PEMFC using graphene-based oxygen reduction reaction catalysts. <i>Journal of Power Sources</i> , 2015 , 286, 166-174	8.9	15
166	Combinatorial high-throughput optical screening for optimum composition of highly active ruthenium based ternary catalysts in oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 11615-11624	6.7	3
165	Dimensionality-dependent oxygen reduction activity on doped graphene: Is graphene a promising substrate for electrocatalysis?. <i>Nano Energy</i> , 2015 , 11, 526-532	17.1	19
164	Photoelectrochemical production of useful fuels from carbon dioxide on a polypyrrole-coated p-ZnTe photocathode under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1089-1095 ¹³		48
163	Rational Design of a Hierarchical Tin Dendrite Electrode for Efficient Electrochemical Reduction of CO ₂ . <i>ChemSusChem</i> , 2015 , 8, 3092-8	8.3	204

162	High thermoelectric power in a NaxCoO_2 thin film prepared by sputtering with rapid thermal annealing. <i>Current Applied Physics</i> , 2015 , 15, 412-416	2.6	7
161	Promoting effect of Ni on PdCo alloy supported on carbon for electrochemical oxygen reduction reaction. <i>Catalysis Today</i> , 2014 , 232, 171-174	5.3	23
160	Synergism between CdTe semiconductor and pyridine π -photoenhanced electrocatalysis for CO_2 reduction to formic acid. <i>RSC Advances</i> , 2014 , 4, 3016-3019	3.7	34
159	p-Sulfonatocalix[4]arene as a carrier for curcumin. <i>New Journal of Chemistry</i> , 2014 , 38, 1336	3.6	24
158	La-promoted Ni/ Al_2O_3 catalyst for autothermal reforming of methane. <i>Korean Journal of Chemical Engineering</i> , 2014 , 31, 1204-1210	2.8	2
157	Photoelectrochemical production of formic acid and methanol from carbon dioxide on metal-decorated CuO/ Cu_2O -layered thin films under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2014 , 158-159, 217-223	21.8	70
156	Long-range electron transfer over graphene-based catalyst for high-performing oxygen reduction reactions: importance of size, N-doping, and metallic impurities. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9070-7	16.4	256
155	Combinatorial high-throughput optical screening of high performance Pd alloy cathode for hybrid Li-air battery. <i>ACS Combinatorial Science</i> , 2014 , 16, 670-7	3.9	12
154	Nitrogen-doped graphene/carbon nanotube self-assembly for efficient oxygen reduction reaction in acid media. <i>Applied Catalysis B: Environmental</i> , 2014 , 144, 760-766	21.8	86
153	Density Functional Theory Studies of NO and NO_2 Adsorption on Al_2O_3 Supported SnO_2 Cluster. <i>Catalysis Letters</i> , 2013 , 143, 912-918	2.8	8
152	The effect of preparation conditions of Pt/ Al_2O_3 on its catalytic performance for the H_2 -SCR in the presence of oxygen. <i>Frontiers of Environmental Science and Engineering</i> , 2013 , 7, 457-463	5.8	12
151	Performance improvement of direct methanol fuel cells via anodic treatment using various organic acids. <i>Korean Journal of Chemical Engineering</i> , 2013 , 30, 1410-1414	2.8	
150	Combinatorial high-throughput screening for highly active Pd-Ir-Ce based ternary catalysts in electrochemical oxygen reduction reaction. <i>ACS Combinatorial Science</i> , 2013 , 15, 572-9	3.9	30
149	Effect and behavior of cerium oxide in Ni/ Al_2O_3 catalysts on autothermal reforming of methane: CeAlO_3 formation and its role on activity. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 6027-6032	6.7	36
148	B, N- and P, N-doped graphene as highly active catalysts for oxygen reduction reactions in acidic media. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3694	13	355
147	Enhanced electrochemical oxygen reduction reaction by restacking of N-doped single graphene layers. <i>RSC Advances</i> , 2013 , 3, 4246	3.7	30
146	Doping of chalcogens (sulfur and/or selenium) in nitrogen-doped graphene π -NT self-assembly for enhanced oxygen reduction activity in acid media. <i>RSC Advances</i> , 2013 , 3, 12417	3.7	47
145	Additional doping of phosphorus and/or sulfur into nitrogen-doped carbon for efficient oxygen reduction reaction in acidic media. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 1802-5	3.6	150

144	Easy and controlled synthesis of nitrogen-doped carbon. <i>Carbon</i> , 2013 , 55, 98-107	10.4	35
143	Enhancement of catalytic activity of Au/TiO ₂ by thermal and plasma treatment. <i>Korean Journal of Chemical Engineering</i> , 2013 , 30, 1876-1881	2.8	18
142	Phosphorus-Nitrogen dual doped carbon as an effective catalyst for oxygen reduction reaction in acidic media: effects of the amount of P-doping on the physical and electrochemical properties of carbon. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12107		191
141	Recent advances in the selective catalytic reduction of NO _x by hydrogen in the presence of oxygen. <i>Energy and Environmental Science</i> , 2012 , 5, 8799	35.4	109
140	Oxygen reduction activity of Pd-Mn ₃ O ₄ nanoparticles and performance enhancement by voltammetrically accelerated degradation. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 6842-8	3.6	28
139	Combinatorial screening of highly active Pd binary catalysts for electrochemical oxygen reduction. <i>ACS Combinatorial Science</i> , 2012 , 14, 10-6	3.9	33
138	Binary and ternary doping of nitrogen, boron, and phosphorus into carbon for enhancing electrochemical oxygen reduction activity. <i>ACS Nano</i> , 2012 , 6, 7084-91	16.7	701
137	Thermoelectric properties of nanocomposite thin films prepared with poly(3,4-ethylenedioxythiophene) poly(styrenesulfonate) and graphene. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3530-6	3.6	181
136	Sustainable production of syngas from biomass-derived glycerol by steam reforming over highly stable Ni/SiC. <i>ChemSusChem</i> , 2012 , 5, 1513-22	8.3	35
135	Facile growth of N-doped CNTs on Vulcan carbon and the effects of iron content on electrochemical activity for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 4563-4570	6.7	29
134	N-doped carbon prepared by pyrolysis of dicyandiamide with various MeCl ₂ ·xH ₂ O (Me = Co, Fe, and Ni) composites: Effect of type and amount of metal seed on oxygen reduction reactions. <i>Applied Catalysis B: Environmental</i> , 2012 , 119-120, 123-131	21.8	61
133	Improvement of oxygen vacancy migration through Nb doping on Ba _{0.7} Sr _{0.3} TiO ₃ thin films for resistance switching random access memory application. <i>Applied Physics Letters</i> , 2012 , 100, 262107	3.4	14
132	On the mechanism of enhanced oxygen reduction reaction in nitrogen-doped graphene nanoribbons. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 17505-10	3.6	588
131	Effect of fluorine addition on boron doped ZnO transparent electrode by room temperature spray method and thermal treatment. <i>Materials Chemistry and Physics</i> , 2011 , 131, 77-83	4.4	13
130	Synthesis and properties of poly(methyl methacrylate)/carbon nanotube composites covalently integrated through in situ radical polymerization. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 452-459 ^{2.9}		9
129	Heteroatom doped carbons prepared by the pyrolysis of bio-derived amino acids as highly active catalysts for oxygen electro-reduction reactions. <i>Green Chemistry</i> , 2011 , 13, 406-412	10	167
128	Highly active N-doped-CNTs grafted on Fe/C prepared by pyrolysis of dicyandiamide on Fe ₂ O ₃ /C for electrochemical oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2011 , 103, 362-368	21.8	76
127	Reproducible resistance switching for BaTiO ₃ thin films fabricated by RF-magnetron sputtering. <i>Thin Solid Films</i> , 2011 , 519, 3291-3294	2.2	23

126	Chemiluminescence analyzer of NO as a high-throughput screening tool in selective catalytic reduction of NO. <i>Science and Technology of Advanced Materials</i> , 2011 , 12, 054211	7.1	4
125	Ternary Pt ₄₅ Ru ₄₅ M ₁₀ /C (M=Mn, Mo and W) catalysts for methanol and ethanol electro-oxidation 2011 , 26, 1028		
124	Enhancement in electro-oxidation of methanol over PtRu black catalyst through strong interaction with iron oxide nanocluster. <i>Langmuir</i> , 2010 , 26, 16529-33	4	16
123	Optimum concentration gradient of the electrocatalyst, Nafion [®] and poly(tetrafluoroethylene) in a membrane-electrode-assembly for enhanced performance of direct methanol fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 15259-64	3.6	4
122	Anion receptor based on cyclic siloxanes substituted with trifluoromethane-sulfonylamide for solid polymer electrolytes. <i>Macromolecular Research</i> , 2010 , 18, 266-270	1.9	2
121	Combinatorial Science and High-Throughput Experiments for Catalysis. <i>Topics in Catalysis</i> , 2010 , 53, 1-1	2.3	8
120	High-Throughput Screening for the Promoters of Alumina Supported Ni Catalysts in Autothermal Reforming of Methane. <i>Topics in Catalysis</i> , 2010 , 53, 123-128	2.3	9
119	Application of Evolutionary Strategies in the Experimental Optimization of Catalytic Materials. <i>Topics in Catalysis</i> , 2010 , 53, 2-12	2.3	2
118	Electrochemical oxygen reduction on nitrogen doped graphene sheets in acid media. <i>Electrochemistry Communications</i> , 2010 , 12, 1052-1055	5.1	243
117	Glycerol as a bioderived sustainable fuel for solid-oxide fuel cells with internal reforming. <i>ChemSusChem</i> , 2009 , 2, 1028-31	8.3	21
116	Effect of heat treatment on PtRu/C catalyst for methanol electro-oxidation. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 1503-1508	2.6	12
115	Ternary Pt ₄₅ Ru ₄₅ M ₁₀ /C (M=Mn, Mo and W) catalysts for methanol and ethanol electro-oxidation. <i>Korean Journal of Chemical Engineering</i> , 2009 , 26, 1028-1033	2.8	10
114	Structural, electrical and optical properties of boron doped ZnO thin films using LSMCD method at room temperature. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 97, 821-828	2.6	42
113	Composition optimization of PtRuM/C (M = Fe and Mo) catalysts for methanol electro-oxidation via combinatorial method. <i>Applied Catalysis B: Environmental</i> , 2009 , 91, 428-433	21.8	45
112	Synthesis and Characterization of PMMA/MWNT Nanocomposites Prepared by in Situ Polymerization with Ni(acac) ₂ Catalyst. <i>Macromolecules</i> , 2009 , 42, 8649-8654	5.5	30
111	Impedance spectroscopy and morphology of SrBi ₄ Ti ₄ O ₁₅ ceramics prepared by soft chemical method. <i>Journal of Alloys and Compounds</i> , 2009 , 477, 706-711	5.7	87
110	Effect of preparation and reaction condition on the catalytic performance of Mo _{0.7} Te _{0.3} Nb catalysts for selective oxidation of propane to acrylic acid by high-throughput methodology. <i>Catalysis Today</i> , 2008 , 137, 61-70	5.3	13
109	Effects of Modified Clay on the Morphology and Properties of PMMA/Clay Nanocomposites Synthesized by in Situ Polymerization. <i>Macromolecules</i> , 2008 , 41, 4268-4274	5.5	84

108	Ferroelectric properties of Bi ₄ Ce _x Ti ₃ O ₁₂ (0. <i>Applied Physics Letters</i> , 2008 , 92, 052911	3.4	8
107	Investigation of Pt/WC/C catalyst for methanol electro-oxidation and oxygen electro-reduction. <i>Journal of Power Sources</i> , 2008 , 185, 927-931	8.9	44
106	Promoting Effect of CeO ₂ on NO _x Reduction with Propene over SnO ₂ /Al ₂ O ₃ Catalyst Studied with In situ FT-IR Spectroscopy. <i>Catalysis Letters</i> , 2008 , 120, 143-147	2.8	6
105	Preparation and characterization of polyethylene (PE)/clay nanocomposites by in situ polymerization with vanadium-based intercalation catalyst. <i>Polymer Bulletin</i> , 2008 , 61, 453-460	2.4	14
104	Synthesis and properties of poly(methyl methacrylate)/clay nanocomposites prepared via in situ polymerization with Ni(acac) ₂ catalyst. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 784-790	2.9	24
103	Novel non-chelated cobalt(II) benzimidazole complex catalysts: Synthesis, crystal structures and cocatalyst effect in vinyl polymerization of norbornene. <i>Journal of Organometallic Chemistry</i> , 2008 , 693, 729-736	2.3	27
102	Pt ₄₅ Ru ₄₅ M ₁₀ /C (M=Fe, Co, and Ni) catalysts for methanol electro-oxidation. <i>Catalysis Today</i> , 2008 , 132, 123-126	5.3	54
101	Efficient Route for Cyclic Olefin Polymerization: Nonchelated Monodentate Benzimidazole Nickel(II) Complex Catalysts for Vinyl Polymerization of Norbornene. <i>Macromolecules</i> , 2007 , 40, 8162-8167	5.5	29
100	Polyethylene-Montmorillonite Nanocomposites: Preparation, Characterization and Properties. <i>Macromolecular Symposia</i> , 2007 , 260, 49-57	0.8	16
99	Highly active PtRuFe/C catalyst for methanol electro-oxidation. <i>Electrochemistry Communications</i> , 2007 , 9, 2163-2166	5.1	62
98	CO tolerant Pt/WC methanol electro-oxidation catalyst. <i>Electrochemistry Communications</i> , 2007 , 9, 2692-2695	5.6	77
97	One-step synthesis and characterization of single Au microballs through self-organization. <i>Materials Letters</i> , 2007 , 61, 3334-3337	3.3	2
96	Performance degradation study of a direct methanol fuel cell by electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2007 , 53, 447-452	6.7	70
95	Validation of the catalytic properties of Cu-Os/13X using single fixed bed reactor in selective catalytic reduction of NO. <i>Applied Surface Science</i> , 2007 , 254, 677-681	6.7	5
94	Improved Performance of Direct Methanol Fuel Cells by Anodic Treatment. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, B23		21
93	Effect of vanadium content on remanent polarization in bismuth titanate thin films prepared by liquid source misted chemical deposition. <i>Applied Physics Letters</i> , 2007 , 90, 042912	3.4	6
92	Combinatorial approach for ferroelectric material libraries prepared by liquid source misted chemical deposition method. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 1134-9	11.5	21
91	Poisoning effect of CO on ethylene polymerization with Ni(II)diimine/MAO. <i>Polymer</i> , 2006 , 47, 184-192	3.9	3

90	Evaluation of vanadium traps occluded in resid fluidized catalytic cracking (RFCC) catalyst for high gasoline yield. <i>Applied Catalysis A: General</i> , 2006 , 306, 1-7	5.1	18
89	Performance of microchannel reactor combined with combustor for methanol steam reforming. <i>Catalysis Today</i> , 2006 , 111, 158-163	5.3	74
88	Electrical properties of (Bi _{3.5} La _{0.5})Ti ₃ O ₁₂ thin-films prepared by liquid source misted chemical deposition. <i>Korean Journal of Chemical Engineering</i> , 2006 , 23, 329-332	2.8	2
87	Polymerization of Methyl Acrylate by a 2,6-Bis(2-benzimidazolyl)pyridine Zirconium Dichloride/MAO Catalyst System. <i>Macromolecular Chemistry and Physics</i> , 2006 , 207, 1965-1971	2.6	7
86	In situ FT-IR studies on the mechanism of selective catalytic reduction of NO _x by propene over SnO ₂ /Al ₂ O ₃ catalyst. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 26019-23	3.4	35
85	Poisoning effect of SO ₂ on the catalytic activity of Au/TiO ₂ investigated with XPS and in situ FT-IR. <i>Applied Catalysis A: General</i> , 2006 , 299, 52-57	5.1	21
84	High-throughput screening of binary catalysts for oxygen electroreduction. <i>Applied Surface Science</i> , 2006 , 252, 2580-2587	6.7	36
83	Current density dependence on performance degradation of direct methanol fuel cells. <i>Journal of Power Sources</i> , 2006 , 158, 1344-1347	8.9	57
82	Recent Advances in Catalytic DeNO _x Science and Technology. <i>Catalysis Reviews - Science and Engineering</i> , 2006 , 48, 43-89	12.6	420
81	Novel SnTe/Al ₂ O ₃ Catalyst for the Selective Catalytic Reduction of NO _x Under Lean Conditions. <i>Catalysis Letters</i> , 2006 , 106, 35-40	2.8	12
80	Catalytic property of Pt/AlSBA-15 in selective catalytic reduction of NO. <i>Catalysis Letters</i> , 2006 , 110, 247-254	2.8	13
79	Overview on the selective lean NO _x reduction by hydrocarbons over Pt-based catalysts. <i>Catalysis Surveys From Asia</i> , 2006 , 10, 8-15	2.8	6
78	Combined structural refinement of Bi _{3.5} La _{0.5} Ti ₃ O ₁₂ using neutron and X-ray powder diffraction data. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 968-72	3.4	21
77	A plate-type reactor coated with zirconia-sol and catalyst mixture for methanol steam-reforming. <i>Journal of Power Sources</i> , 2005 , 140, 66-71	8.9	52
76	Platinum Nanoclusters Studied in the Microporous Nanowalls of Ordered Mesoporous Carbon. <i>Advanced Materials</i> , 2005 , 17, 446-451	24	129
75	Current Status of Combinatorial and High-Throughput Methods for Discovering New Materials and Catalysts. <i>QSAR and Combinatorial Science</i> , 2005 , 24, 138-154		36
74	Cation disorder study of Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ by neutron powder diffraction and Raman spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 2588-2592	3	29
73	High-throughput screening of transition metal-doped TiO ₂ in photodecomposition of phenol under visible light. <i>Korean Journal of Chemical Engineering</i> , 2004 , 21, 123-125	2.8	5

72	Comparison of Two Preparation Methods in the Redox Properties of Pd/CeO ₂ /Ta/Si Model Catalysts: Spin Coating Versus Sputter Deposition. <i>Catalysis Letters</i> , 2004 , 98, 23-28	2.8	7
71	High-Throughput Synthesis of New Ni(II), Pd(II), and Co(II) Catalysts and Polymerization of Norbornene Utilizing the Self-Made Parallel Polymerization Reactor System. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 302-306	4.8	24
70	Development of enhanced materials for direct-methanol fuel cell by combinatorial method and nanoscience. <i>Catalysis Today</i> , 2004 , 93-95, 517-522	5.3	27
69	Structural study of Bi ₄ Ti ₃ O ₁₂ using neutron powder diffraction data. <i>Journal of Materials Science Letters</i> , 2003 , 22, 1655-1657		17
68	Preparation of PbZrO ₃ thin films by plasma enhanced metalorganic chemical vapor deposition. <i>Journal of Materials Science Letters</i> , 2003 , 22, 1677-1678		1
67	Wide Temperature Window in the Catalytic Activity of Novel Pt/ZSM-5 Prepared by a Sublimation Method for Selective Catalytic Reduction of NO. <i>Catalysis Letters</i> , 2003 , 85, 69-72	2.8	8
66	Mechanistic study on the SCR of NO by C ₃ H ₆ over Pt/V/MCM-41. <i>Applied Catalysis B: Environmental</i> , 2003 , 44, 301-310	21.8	24
65	Selective catalytic reduction of NO _x in lean-burn engine exhaust over a Pt/V/MCM-41 catalyst. <i>Applied Catalysis B: Environmental</i> , 2003 , 44, 311-323	21.8	27
64	The Characterization of LiMn ₂ O ₄ Thin Film Cathode for Lithium Rechargeable Microbattery Prepared by Liquid Source Misted Chemical Deposition. <i>Chemical Vapor Deposition</i> , 2003 , 9, 187-192		12
63	Polymerization of Methyl Methacrylate with Ni(II) Diimine/MAO and Fe(II) and Co(II) Pyridyl Bis(imine)/MAO. <i>Macromolecular Rapid Communications</i> , 2003 , 24, 508-511	4.8	67
62	The effect of water and acidity of the clay for ethylene polymerization over Cp ₂ ZrCl ₂ supported on TMA-modified clay materials. <i>Journal of Molecular Catalysis A</i> , 2003 , 206, 205-211		18
61	Shape and diffusion of the monomer-controlled copolymerization of ethylene and α -olefins over Cp ₂ ZrCl ₂ confined in the nanospace of the supercage of NaY. <i>Journal of Polymer Science Part A</i> , 2003 , 41, 2171-2179	2.5	19
60	Bimetallic Pt/Ru nanowire network for anode material in a direct-methanol fuel cell. <i>Journal of Power Sources</i> , 2003 , 124, 420-425	8.9	67
59	Regeneration of Spent Resid Fluidized Catalytic Cracking Catalyst by Removing Metal Poisons Such as V, Ni, and Fe. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 736-742	3.9	9
58	Synthesis of High-Molecular-Weight Poly(L-lactic acid) by Direct Polycondensation. <i>Macromolecular Chemistry and Physics</i> , 2002 , 203, 2245-2250	2.6	81
57	Olefin homopolymerization catalyzed over asymmetric and symmetric ni(II) diimine complexes. <i>Korean Journal of Chemical Engineering</i> , 2002 , 19, 622-626	2.8	2
56	Quaternary Pt-based electrocatalyst for methanol oxidation by combinatorial electrochemistry. <i>Catalysis Today</i> , 2002 , 74, 235-240	5.3	125
55	The Effect of Chelating Agent on the Catalytic and Structural Properties of Sm ₂ Zr ₂ O ₇ as a Methane Combustion Catalyst. <i>Catalysis Letters</i> , 2002 , 79, 45-48	2.8	13

54	Selective Catalytic Reduction of NO _x in Lean Burn Engine Exhaust by Highly Active Pt Supported on V-impregnated MCM-41. <i>Chemistry Letters</i> , 2002 , 31, 246-247	1.7	4
53	Modification of proton conducting membrane for reducing methanol crossover in a direct-methanol fuel cell. <i>Journal of Power Sources</i> , 2001 , 96, 411-414	8.9	202
52	Poisoning Effect of SO ₂ on NO Reduction by i-Butane over Fe/ZSM-5 Prepared by Sublimation Method. <i>Journal of Catalysis</i> , 2001 , 203, 369-374	7.3	17
51	Regeneration of spent RFCC catalyst irreversibly deactivated by Ni, Fe, and V contained in heavy oil. <i>Applied Catalysis B: Environmental</i> , 2001 , 33, 249-261	21.8	29
50	Syndiotactic polypropene with MCM-41 supported metallocene [Me ₂ C(Cp)(Flu)]ZrCl ₂ . <i>Macromolecular Rapid Communications</i> , 2000 , 21, 909-912	4.8	19
49	The role of lanthanum oxide on Pd-only three-way catalysts prepared by co-impregnation and sequential impregnation methods. <i>Catalysis Letters</i> , 2000 , 70, 35-41	2.8	44
48	Recovery of Platinum-Group Metals from Recycled Automotive Catalytic Converters by Carbochlorination. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 1185-1192	3.9	94
47	Fast Pyrolysis of Chlorodifluoromethane in a Microwave-Heated Fluidized Bed.. <i>Journal of Chemical Engineering of Japan</i> , 1999 , 32, 171-176	0.8	8
46	Cocatalytic activities of methylaluminumoxane prepared by direct water addition method in ethylene polymerization over Cp ₂ ZrCl ₂ . <i>Korean Journal of Chemical Engineering</i> , 1999 , 16, 156-160	2.8	2
45	Preparation, characterization, and reactivity of Pt/SDBC catalysts for the hydrogen-water isotopic exchange reaction. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1999 , 242, 709-715	1.5	5
44	Anisotropic etching characteristics of platinum electrode for ferroelectric capacitor. <i>IEEE Transactions on Electron Devices</i> , 1999 , 46, 984-992	2.9	7
43	The effect of the preparation conditions of Pt/ZSM-5 upon its activity and selectivity for the reduction of nitric oxide. <i>Applied Catalysis B: Environmental</i> , 1999 , 21, 183-190	21.8	17
42	Influence of pH on the Adsorption of Uranium Ions by Oxidized Activated Carbon and Chitosan. <i>Separation Science and Technology</i> , 1999 , 34, 833-854	2.5	24
41	Analysis of microstructure of ethylene-hexene copolymer prepared over thermally pretreated MgCl ₂ /THF/TiCl ₄ bimetallic catalyst. <i>Journal of Polymer Science Part A</i> , 1998 , 36, 291-300	2.5	16
40	Compatibilizing capability of poly(hydroxybutyrate-co-ε-caprolactone) in the blend of poly(hydroxybutyrate) and poly(ε-caprolactone). <i>Polymer Bulletin</i> , 1998 , 41, 707-712	2.4	25
39	Role of oxygen on NO _x SCR catalyzed over Cu/ZSM-5 studied by FTIR, TPD, XPS and micropulse reaction. <i>Catalysis Today</i> , 1998 , 44, 47-55	5.3	21
38	FTIR Studies of the Reduction of Nitric Oxide by Propene on Pt/ZSM-5 in the Presence of Oxygen. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 9005-9009	3.4	25
37	In situ FTIR study of the selective catalytic reduction of NO on Pt/ZSM-5. <i>Catalysis Today</i> , 1997 , 38, 187-193	1.3	19

36	Formation of a silicate layer between lead oxide and a silicon-wafer surface during heat treatment. <i>Journal of Materials Science</i> , 1997 , 32, 815-820	4.3	4
35	Wet oxidation of wastewater containing hydrocarbons by novel supported Pd catalysts. <i>Korean Journal of Chemical Engineering</i> , 1997 , 14, 479-485	2.8	3
34	Aromatization of pentane catalyzed over various metallosilicates. <i>Korean Journal of Chemical Engineering</i> , 1997 , 14, 249-256	2.8	5
33	Temperature programmed decomposition of silica-supported MgCl ₂ /THF/TiCl ₄ catalyst and effect of thermal treatment on ethylene polymerization rate. <i>Korean Journal of Chemical Engineering</i> , 1997 , 14, 390-393	2.8	
32	Copolymerization of ethylene-1-Hexene over a thermally pretreated MgCl ₂ /THF/TiCl ₄ bimetallic catalyst. <i>Journal of Polymer Science Part A</i> , 1997 , 35, 2769-2776	2.5	6
31	Determination of the Number of Active Sites for Olefin Polymerization Catalyzed over Metallocene/MAO Using the CO Inhibition Method. <i>Macromolecules</i> , 1996 , 29, 7305-7309	5.5	19
30	Preparation of BST thin films on Pt electrode on Si wafer with down-flow LSMCVD reactor. <i>Integrated Ferroelectrics</i> , 1996 , 12, 185-197	0.8	12
29	The existence of dual Cu site involved in the selective catalytic reduction of NO with propene on Cu/ZSM-5. <i>Catalysis Letters</i> , 1996 , 42, 177-184	2.8	20
28	Decane reforming reaction over Pt, Ir, Pt-Ir and Pt-Ni bimetallic catalysts supported on Y-zeolite. <i>Korean Journal of Chemical Engineering</i> , 1996 , 13, 351-355	2.8	2
27	Propene polymerization catalyzed over MCM-41 and VPI-5-supported Et(ind) ₂ ZrCl ₂ catalysts. <i>Macromolecular Rapid Communications</i> , 1996 , 17, 749-758	4.8	86
26	Propylene polymerization with unbridged rac- or meso-bis[1-(p-toly)indenyl]dichloro zirconium/methylaluminumoxane catalyst. <i>Polymer Bulletin</i> , 1996 , 37, 35-41	2.4	7
25	Thermal degradation of polytetrafluoroethylene in flowing helium atmosphere II. Product distribution and reaction mechanism. <i>Korean Journal of Chemical Engineering</i> , 1995 , 12, 183-187	2.8	4
24	Effect of polymer position in nutrient-salt agar medium on fungal degradation of polycaprolactone. <i>Korean Journal of Chemical Engineering</i> , 1995 , 12, 320-324	2.8	
23	Characterization of hydrodesulfurization catalyst prepared by impregnating cobalt nitrate solution onto the sulfided MoO ₃ /Al ₂ O ₃ catalyst. <i>Korean Journal of Chemical Engineering</i> , 1995 , 12, 497-502	2.8	2
22	Preparation and characterization of PZT ferroelectric thin films by plasma enhanced metalorganic chemical vapor deposition. <i>Integrated Ferroelectrics</i> , 1995 , 9, 21-29	0.8	0
21	Effect of CO and CO ₂ addition to the CF ₄ /O ₂ gas system on the etching of a low-pressure chemical vapor deposition tungsten film. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1995 , 13, 914		7
20	Residual Oil Hydrodesulfurization Using Dispersed Catalysts in a Carbon-Packed Trickle Bed Flow Reactor. <i>Energy & Fuels</i> , 1995 , 9, 2-9	4.1	18
19	Control of molecular weight and molecular weight distribution in ethylene polymerization with metallocene catalysts. <i>Macromolecular Chemistry and Physics</i> , 1995 , 196, 2637-2647	2.6	40

18	Polymerization of ethylene over metallocenes confined inside the supercage of a NaY zeolite. <i>Macromolecular Rapid Communications</i> , 1995 , 16, 489-494	4.8	43
17	Preparation and characteristics of lead titanate by glow discharge using metal-organic precursors. <i>Integrated Ferroelectrics</i> , 1994 , 5, 107-118	0.8	5
16	Kinetics of propylene polymerization in the initial acceleration stage. <i>Journal of Polymer Science Part A</i> , 1994 , 32, 971-977	2.5	5
15	Kinetics study of slurry-phase propylene polymerization with highly active Mg(OEt) ₂ /benzoyl chloride/TiCl ₄ catalyst. <i>Journal of Applied Polymer Science</i> , 1994 , 52, 1739-1750	2.9	14
14	Production of poly(3-hydroxybutyric acid) by fed-batch culture of <i>Alcaligenes eutrophus</i> with glucose concentration control. <i>Biotechnology and Bioengineering</i> , 1994 , 43, 892-8	4.9	258
13	Selective alkylation of aniline with methanol over metallosilicates. <i>Catalysis Letters</i> , 1994 , 26, 169-180	2.8	42
12	Dissolution Behaviors of Copper Metal in Alkaline H ₂ O ₂ -EDTA Solutions. <i>Journal of Nuclear Science and Technology</i> , 1993 , 30, 549-553	1	6
11	Computer Simulation Study of Transient Diffusion of Cesium through Granite with Unsteady-State Diffusion Model. <i>Journal of Nuclear Science and Technology</i> , 1992 , 29, 786-793	1	4
10	Sorption and Desorption Behavior of ⁶⁰ Co, ⁸⁵ Sr, and ¹³⁷ Cs in a Porous Tuff. <i>Journal of Nuclear Science and Technology</i> , 1992 , 29, 1184-1193	1	12
9	Polymerization of propylene catalyzed over highly active and stereospecific catalysts synthesized with Mg(OEt) ₂ /benzoyl chloride/TiCl ₄ . <i>Journal of Polymer Science Part A</i> , 1992 , 30, 2263-2271	2.5	7
8	Kinetic study for the decay rate of ethylene polymerization catalyzed over silica supported TiCl ₄ /MgCl ₂ catalysts. <i>Korean Journal of Chemical Engineering</i> , 1990 , 7, 95-99	2.8	6
7	Polymerization of propylene by highly active catalysts synthesized with Mg(OEt) ₂ /benzoyl chloride/TiCl ₄ . <i>Polymer Bulletin</i> , 1990 , 23, 35-42	2.4	10
6	Kinetic study of ethylene polymerization by highly active silica supported TiCl ₄ /MgCl ₂ catalysts. <i>Journal of Applied Polymer Science</i> , 1990 , 39, 837-854	2.9	38
5	Morphological Study of HDPE Prepared with the Highly Active Silica Supported TiCl ₄ /MgCl ₂ Catalyst. <i>Polymer Journal</i> , 1989 , 21, 697-707	2.7	17
4	Homo- and co-polymerization of ethylene with highly active Ti/Mg bimetallic complexes. <i>Polymer Bulletin</i> , 1989 , 22, 239-246	2.4	6
3	Sorption and Desorption Behavior of ⁶⁰ Co, ⁸⁵ Sr, and ¹³⁷ Cs in a Porous Tuff		1
2	Dissolution Behaviors of Copper Metal in Alkaline H ₂ O ₂ -EDTA Solutions		2
1	Polymerization with the Single-Site Catalyst Confined within the Nanospace of Mesoporous Materials or Clays		1

