

Yong-Kul Lee

List of Publications by Year in descending order

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71
papers

3,947
citations

147801

31
h-index

118850

62
g-index

73
all docs

73
docs citations

73
times ranked

3543
citing authors

#	ARTICLE	IF	CITATIONS
1	Beneficial effect of V on stability of dispersed MoS ₂ catalysts in slurry phase hydrocracking of vacuum residue: XAFS studies. <i>Journal of Catalysis</i> , 2022, 413, 443-454.	6.2	2
2	Resolving Potential-Dependent Degradation of Electrodeposited Ni(OH) ₂ Catalysts in Alkaline Oxygen Evolution Reaction (OER): In Situ XANES Studies. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119729.	20.2	54
3	Sacrificial species approach to designing robust transition metal phosphide cathodes for alkaline water electrolysis in discontinuous operation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16713-16724.	10.3	13
4	Density Functional Theory (DFT) Calculations and Catalysis. <i>Catalysts</i> , 2021, 11, 454.	3.5	9
5	Reactivity of sulfur compounds in FCC decant oils for hydrodesulfurization over CoMoS ₂ /Al ₂ O ₃ catalysts. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1179-1187.	2.7	3
6	Boosting Activity and Durability of an Electrodeposited Ni(OH) ₂ Catalyst Using Carbon Nanotube-Grafted Substrates for the Alkaline Oxygen Evolution Reaction. <i>ACS Applied Nano Materials</i> , 2021, 4, 10267-10274.	5.0	7
7	Structure and activity of unsupported NiWS ₂ catalysts for slurry phase hydrocracking of vacuum residue: XAFS studies. <i>Journal of Catalysis</i> , 2021, 403, 131-140.	6.2	8
8	Hydrotreating of Waste Tire Pyrolysis Oil over Highly Dispersed Ni ₂ P Catalyst Supported on SBA-15. <i>Catalysts</i> , 2021, 11, 1272.	3.5	6
9	Structure and Activity of Ni ₂ P/Desilicated Zeolite β Catalysts for Hydrocracking of Pyrolysis Fuel Oil into Benzene, Toluene, and Xylene. <i>Catalysts</i> , 2020, 10, 47.	3.5	13
10	Conversion of V-porphyrin in asphaltenes into V ₂ S ₃ as an active catalyst for slurry phase hydrocracking of vacuum residue. <i>Fuel</i> , 2020, 263, 116620.	6.4	19
11	Beneficial roles of carbon black additives in slurry phase hydrocracking of vacuum residue. <i>Applied Catalysis A: General</i> , 2020, 607, 117837.	4.3	6
12	Highly active and stable MoWS ₂ catalysts in slurry phase hydrocracking of vacuum residue. <i>Journal of Catalysis</i> , 2020, 390, 117-125.	6.2	9
13	Promotional effect of Co on unsupported MoS ₂ catalysts for slurry phase hydrocracking of vacuum residue: X-ray absorption fine structure studies. <i>Journal of Catalysis</i> , 2019, 380, 278-288.	6.2	13
14	Selective hydrotreating and hydrocracking of FCC light cycle oil into high-value light aromatic hydrocarbons. <i>Applied Catalysis A: General</i> , 2019, 577, 86-98.	4.3	49
15	Promotional effect of Ga for Ni ₂ P catalyst on hydrodesulfurization of 4,6-DMDBT. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 181-188.	20.2	43
16	Comparison of unsupported WS ₂ and MoS ₂ catalysts for slurry phase hydrocracking of vacuum residue. <i>Applied Catalysis A: General</i> , 2019, 572, 90-96.	4.3	22
17	Active phase of dispersed MoS ₂ catalysts for slurry phase hydrocracking of vacuum residue. <i>Journal of Catalysis</i> , 2019, 369, 111-121.	6.2	43
18	Designing supported NiMoS ₂ catalysts for hydrocracking of vacuum residue. <i>Fuel</i> , 2019, 239, 1265-1273.	6.4	16

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19	Promoting asphaltene conversion by tetralin for hydrocracking of petroleum pitch. <i>Fuel</i> , 2018, 222, 105-113.	6.4	37
20	Strong metal-support interaction effect of Pt/Nb ₂ O ₅ catalysts on aqueous phase hydrodeoxygenation of 1,6-hexanediol. <i>Catalysis Today</i> , 2018, 302, 108-114.	4.4	16
21	A New Approach to Deep Desulfurization of Light Cycle Oil over Ni ₂ P Catalysts: Combined Selective Oxidation and Hydrotreating. <i>Catalysts</i> , 2018, 8, 102.	3.5	9
22	Structure and activity of dispersed Co, Ni, or Mo sulfides for slurry phase hydrocracking of vacuum residue. <i>Journal of Catalysis</i> , 2018, 364, 131-140.	6.2	46
23	Effects of dispersed MoS ₂ catalysts and reaction conditions on slurry phase hydrocracking of vacuum residue. <i>Journal of Catalysis</i> , 2017, 347, 127-137.	6.2	87
24	Morphology effect of β -zeolite supports for Ni ₂ P catalysts on the hydrocracking of polycyclic aromatic hydrocarbons to benzene, toluene, and xylene. <i>Journal of Catalysis</i> , 2017, 351, 67-78.	6.2	54
25	Effects of the asphaltene structure and the tetralin/heptane solvent ratio on the size and shape of asphaltene aggregates. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13931-13940.	2.8	16
26	Beneficial roles of H-donors as diluent and H-shuttle for asphaltenes in catalytic upgrading of vacuum residue. <i>Chemical Engineering Journal</i> , 2017, 314, 1-10.	12.7	41
27	Anomalous in situ Activation of Carbon-Supported Ni ₂ P Nanoparticles for Oxygen Evolving Electrocatalysis in Alkaline Media. <i>Scientific Reports</i> , 2017, 7, 8236.	3.3	21
28	Sulfur resistant nature of Ni ₂ P catalyst in deep hydrodesulfurization. <i>Applied Catalysis A: General</i> , 2017, 548, 103-113.	4.3	35
29	Vapor phase deoxygenation of heptanoic acid over silica-supported palladium and palladium-tin catalysts. <i>Journal of Catalysis</i> , 2016, 344, 202-212.	6.2	17
30	Rationalization of electrocatalysis of nickel phosphide nanowires for efficient hydrogen production. <i>Nano Energy</i> , 2016, 26, 496-503.	16.0	61
31	Understanding conversion mechanism of NiO anodic materials for Li-ion battery using in situ X-ray absorption near edge structure spectroscopy. <i>Journal of Power Sources</i> , 2016, 304, 189-195.	7.8	10
32	Support Effects of Ni ₂ P Catalysts on the Hydrodeoxygenation of Guaiacol: In Situ XAFS Studies. <i>Topics in Catalysis</i> , 2015, 58, 211-218.	2.8	31
33	The nature of active sites of Ni ₂ P electrocatalyst for hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2015, 326, 92-99.	6.2	107
34	Conversion mechanisms of cobalt oxide anode for Li-ion battery: In situ X-ray absorption fine structure studies. <i>Journal of Power Sources</i> , 2015, 274, 748-754.	7.8	58
35	Effects of nitrogen compounds, aromatics, and aprotic solvents on the oxidative desulfurization (ODS) of light cycle oil over Ti-SBA-15 catalyst. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 35-42.	20.2	87
36	Dispersion effects of Ni ₂ P catalysts on hydrotreating of light cycle oil. <i>Applied Catalysis B: Environmental</i> , 2014, 150-151, 647-655.	20.2	44

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37	Active sites of Ni ₂ P/SiO ₂ catalyst for hydrodeoxygenation of guaiacol: A joint XAFS and DFT study. <i>Journal of Catalysis</i> , 2014, 311, 144-152.	6.2	169
38	Novel Ni ₂ P/zeolite catalysts for naphthalene hydrocracking to BTX. <i>Catalysis Communications</i> , 2014, 45, 133-138.	3.3	62
39	Factors influencing the formation of 2-hydroxy-6-naphthoic acid from carboxylation of naphthol. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 2060-2063.	5.8	2
40	Thermodynamic analysis of steam and aqueous reforming of hydroxylated C ₆ aliphatic compounds. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 2072-2078.	5.8	3
41	Beneficial effects of polycyclic aromatics on oxidative desulfurization of light cycle oil over phosphotungstic acid (PTA) catalyst. <i>Fuel Processing Technology</i> , 2013, 114, 1-5.	7.2	16
42	Effects of co loadings on NaCo/ZnO catalysts for ethanol steam reforming: XAFS studies. <i>Journal of the Korean Physical Society</i> , 2013, 63, 1395-1398.	0.7	2
43	Active phase of a Pd-Cu/ZSM-5 catalyst for benzene hydroxylation: In-situ XAFS studies. <i>Journal of the Korean Physical Society</i> , 2012, 61, 293-296.	0.7	4
44	A new synthesis of highly active Ni ₂ P/Al ₂ O ₃ catalyst by liquid phase phosphidation for deep hydrodesulfurization. <i>Catalysis Communications</i> , 2011, 12, 470-474.	3.3	44
45	Formation mechanisms of Ni ₂ P nanocrystals using XANES and EXAFS spectroscopy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 132-140.	3.5	35
46	EXAFS Studies on the Formation of MoS ₂ Nanowires. <i>Journal of the Korean Physical Society</i> , 2011, 59, 730-734.	0.7	8
47	TPR and EXAFS Studies on Na-Promoted Co/ZnO Catalysts for Ethanol Steam Reforming. <i>Topics in Catalysis</i> , 2010, 53, 615-620.	2.8	12
48	XAFS studies on highly dispersed Ni ₂ P/SiO ₂ catalysts for hydrodesulfurization of 4,6-dimethyldibenzothiophene. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 621, 690-694.	1.6	6
49	Hydrogen production from ethanol over Co/ZnO catalyst in a multi-layered reformer. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 1147-1151.	7.1	17
50	The active phase of NaCo/ZnO catalyst for ethanol steam reforming: EXAFS and in situ XANES studies. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5378-5382.	7.1	22
51	Nickel Phosphide Catalysts Supported on SBA-15 for Hydrodesulfurization of 4,6-Dimethyldibenzothiophene. <i>Journal of the Japan Petroleum Institute</i> , 2010, 53, 173-177.	0.6	3
52	Effects of Phosphorus Precursor on Structure and Activity of Ni ₂ P/SiO ₂ Hydrotreating Catalysts: EXAFS Studies. <i>Journal of the Korean Physical Society</i> , 2010, 56, 2083-2087.	0.7	6
53	Transition metal phosphide hydroprocessing catalysts: A review. <i>Catalysis Today</i> , 2009, 143, 94-107.	4.4	704
54	35-We polymer electrolyte membrane fuel cell system for notebook computer using a compact fuel processor. <i>Journal of Power Sources</i> , 2008, 185, 171-178.	7.8	15

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55	The active site of nickel phosphide catalysts for the hydrodesulfurization of 4,6-DMDBT. <i>Journal of Catalysis</i> , 2008, 258, 393-400.	6.2	248
56	In Situ EXAFS Studies on Ni ₂ P Hydrodesulfurization Catalysts in the Presence of High Pressure and High Temperature Oil. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	3
57	True Intermediates and Spectators in Reaction Mechanisms: A Kinetic and Spectroscopic Study. <i>Studies in Surface Science and Catalysis</i> , 2007, 172, 103-108.	1.5	0
58	Active phase of a nickel phosphide (Ni ₂ P) catalyst supported on KUSY zeolite for the hydrodesulfurization of 4,6-DMDBT. <i>Applied Catalysis A: General</i> , 2007, 322, 191-204.	4.3	99
59	Structure and Oxidation State of Silica-Supported Manganese Oxide Catalysts and Reactivity for Acetone Oxidation with Ozone. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4207-4216.	2.6	108
60	Comparison of Structural Properties of SiO ₂ , Al ₂ O ₃ , and C/Al ₂ O ₃ Supported Ni ₂ P catalysts. <i>Studies in Surface Science and Catalysis</i> , 2006, 159, 357-360.	1.5	15
61	Bifunctional nature of a SiO ₂ -supported Ni ₂ P catalyst for hydrotreating: EXAFS and FTIR studies. <i>Journal of Catalysis</i> , 2006, 239, 376-389.	6.2	229
62	EXAFS measurements of a working catalyst in the liquid phase: An in situ study of a Ni ₂ P hydrodesulfurization catalyst. <i>Journal of Catalysis</i> , 2006, 241, 20-24.	6.2	81
63	Structure-sensitivity of hydrodesulfurization of 4,6-dimethyldibenzothiophene over silica-supported nickel phosphide catalysts. <i>Journal of Catalysis</i> , 2005, 236, 112-121.	6.2	97
64	Mechanism of Hydrodenitrogenation on Phosphides and Sulfides. <i>Journal of Physical Chemistry B</i> , 2005, 109, 2109-2119.	2.6	50
65	Acetone Oxidation Using Ozone on Manganese Oxide Catalysts. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17587-17596.	2.6	98
66	Kinetics of Two Pathways for 4,6-Dimethyldibenzothiophene Hydrodesulfurization over NiMo, CoMo Sulfide, and Nickel Phosphide Catalysts. <i>Energy & Fuels</i> , 2005, 19, 353-364.	5.1	82
67	Active phase of Ni ₂ P/SiO ₂ in hydroprocessing reactions. <i>Journal of Catalysis</i> , 2004, 221, 263-273.	6.2	222
68	In Situ X-ray Absorption Fine Structure Studies on the Structure of Nickel Phosphide Catalyst Supported on K-USY. <i>Chemistry Letters</i> , 2003, 32, 956-957.	1.3	15
69	Effect of Phosphorus Content in Nickel Phosphide Catalysts Studied by XAFS and Other Techniques. <i>Journal of Catalysis</i> , 2002, 210, 207-217.	6.2	311
70	Preparation of colloidal silica using peptization method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000, 173, 109-116.	4.7	20
71	Transalkylation of toluene and 1,2,4-trimethylbenzene over large pore zeolites. <i>Catalysis Today</i> , 1998, 44, 223-233.	4.4	27