Jaeâ€Soon Choi

List of Publications by Year
in descending order

32 papers	987 citations	361413 20 h-index	434195 31 g-index
32 all docs	32 docs citations	32 times ranked	874 citing authors

#	Article	IF	Citations
1	Spatially resolved in situ measurements of transient species breakthrough during cyclic, low-temperature regeneration of a monolithic Pt/K/Al2O3 NOx storage-reduction catalyst. Applied Catalysis A: General, 2005, 293, 24-40.	4.3	86
2	NH3 formation and utilization in regeneration of Pt/Ba/Al2O3 NOx storage-reduction catalyst with H2. Applied Catalysis B: Environmental, 2009, 91, 144-151.	20.2	72
3	Evolution and Enabling Capabilities of Spatially Resolved Techniques for the Characterization of Heterogeneously Catalyzed Reactions. ACS Catalysis, 2016, 6, 1356-1381.	11.2	70
4	Sulfur impact on NOx storage, oxygen storage, and ammonia breakthrough during cyclic lean/rich operation of a commercial lean NOx trap. Applied Catalysis B: Environmental, 2007, 77, 145-156.	20.2	56
5	Sulfur and temperature effects on the spatial distribution of reactions inside a lean NOx trap and resulting changes in global performance. Catalysis Today, 2008, 136, 173-182.	4.4	55
6	Intra-channel evolution of carbon monoxide and its implication on the regeneration of a monolithic Pt/K/Al2O3 NOx storage-reduction catalyst. Catalysis Today, 2006, 114, 102-111.	4.4	51
7	Spatiotemporal distribution of NOx storage and impact on NH3 and N2O selectivities during lean/rich cycling of a Ba-based lean NOx trap catalyst. Catalysis Today, 2012, 184, 20-26.	4.4	50
8	Enhancing low-temperature activity and durability of Pd-based diesel oxidation catalysts using ZrO2 supports. Applied Catalysis B: Environmental, 2016, 187, 181-194.	20.2	50
9	Coating SiO2 Support with TiO2 or ZrO2 and Effects on Structure and CO Oxidation Performance of Pt Catalysts. Catalysts, 2013, 3, 88-103.	3.5	41
10	Depolymerization of corn stover lignin with bulk molybdenum carbide catalysts. Fuel, 2019, 244, 528-535.	6.4	39
11	New insights on N2O formation pathways during lean/rich cycling of a commercial lean NO trap catalyst. Catalysis Today, 2014, 231, 145-154.	4.4	36
12	Kinetic modeling of NH3-SCR over a supported Cu zeolite catalyst using axial species distribution measurements. Applied Catalysis B: Environmental, 2015, 163, 393-403.	20.2	35
13	New operation strategy for driving the selectivity of NO reduction to N2, NH3 or N2O during lean/rich cycling of a lean NO trap catalyst. Applied Catalysis B: Environmental, 2016, 182, 109-114.	20.2	33
14	Local ammonia storage and ammonia inhibition in a monolithic copper-beta zeolite SCR catalyst. Applied Catalysis B: Environmental, 2012, 126, 144-152.	20.2	31
15	A comparative study of silver- and palladium-exchanged zeolites in propylene and nitrogen oxide adsorption and desorption for cold-start applications. Catalysis Today, 2021, 360, 220-233.	4.4	27
16	Effective Model for Prediction of N2O and NH3 Formation During the Regeneration of NO x Storage Catalyst. Topics in Catalysis, 2013, 56, 118-124.	2.8	26
17	Molybdenum Carbides, Active and <i>In Situ</i> Regenerable Catalysts in Hydroprocessing of Fast Pyrolysis Bio-Oil. Energy & Fuels, 2016, 30, 5016-5026.	5.1	26
18	Dynamics of N2 and N2O peaks during and after the regeneration of lean NO trap. Applied Catalysis B: Environmental, 2015, 166-167, 509-517.	20.2	25

#	Article	IF	Citations
19	Cold-start emissions control in hybrid vehicles equipped with a passive adsorber for hydrocarbons and nitrogen oxides. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2012, 226, 1396-1407.	1.9	23
20	Nature and spatial distribution of sulfur species in a sulfated barium-based commercial lean NOx trap catalyst. Catalysis Today, 2010, 151, 354-361.	4.4	22
21	Ni-Doping Effects on Oxygen Removal from an Orthorhombic Mo₂C (001) Surface: A Density Functional Theory Study. Journal of Physical Chemistry C, 2018, 122, 1595-1603.	3.1	20
22	Sulfur-Tolerant Molybdenum Carbide Catalysts Enabling Low-Temperature Stabilization of Fast Pyrolysis Bio-oil. Energy & Fuels, 2017, 31, 9585-9594.	5.1	17
23	Analysis of Ion-Exchanged ZSM-5, BEA, and SSZ-13 Zeolite Trapping Materials under Realistic Exhaust Conditions. Catalysts, 2021, 11, 449.	3.5	16
24	Structural Evolution of Molybdenum Carbides in Hot Aqueous Environments and Impact on Low-Temperature Hydroprocessing of Acetic Acid. Catalysts, 2015, 5, 406-423.	3.5	14
25	Methane Combustion Over Ni/Ce_xZr_{1â€“x}O₂ Catalysts: Impact of Ceria/Zirconia Ratio. ChemCatChem, 2020, 12, 5558-5568.	3.7	14
26	Axial length effects on Lean NOx Trap performance. Applied Catalysis B: Environmental, 2009, 92, 9-16.	20.2	11
27	Sulfate storage and stability on representative commercial lean NOx trap components. Applied Catalysis B: Environmental, 2012, 117-118, 167-176.	20.2	8
28	Acetic Acid/Propionic Acid Conversion on Metal Doped Molybdenum Carbide Catalyst Beads for Catalytic Hot Gas Filtration. Catalysts, 2018, 8, 643.	3.5	8
29	Hydrothermally stable Pd/SiO2@Zr Core@Shell catalysts for diesel oxidation applications. Chemical Engineering Journal, 2021, 425, 130637.	12.7	8
30	Ammonia reactions with the stored oxygen in a commercial lean <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">NO</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml: trap catalyst. Chemical Engineering Journal, 2015, 278, 199-206.	12.7	6
31	Automotive Emission Control Catalysts. Catalysts, 2016, 6, 155.	3.5	6
32	Understanding the Performance of Automotive Catalysts via Spatial Resolution of Reactions Inside Honeycomb Monoliths. Advances in Chemical Engineering, 2017, 50, 1-81.	0.9	5