

Youngchul Byun

List of Publications by Year in descending order

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25
papers

512
citations

759233

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22
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26
all docs

26
docs citations

26
times ranked

523
citing authors

#	ARTICLE	IF	CITATIONS
1	Demonstration of Thermal Plasma Gasification/Vitrification for Municipal Solid Waste Treatment. <i>Environmental Science & Technology</i> , 2010, 44, 6680-6684.	10.0	74
2	Hydrogen recovery from the thermal plasma gasification of solid waste. <i>Journal of Hazardous Materials</i> , 2011, 190, 317-323.	12.4	57
3	Influence of HCl on oxidation of gaseous elemental mercury by dielectric barrier discharge process. <i>Chemosphere</i> , 2008, 71, 1674-1682.	8.2	47
4	Oxidation of elemental mercury using atmospheric pressure non-thermal plasma. <i>Chemosphere</i> , 2008, 72, 652-658.	8.2	40
5	Removal mechanism of elemental mercury by using non-thermal plasma. <i>Chemosphere</i> , 2011, 83, 69-75.	8.2	37
6	Theoretical Investigation of the Isomerization and Disproportionation of <i>m</i> -Xylene over Medium-Pore Zeolites with Different Framework Topologies. <i>ACS Catalysis</i> , 2014, 4, 1764-1776.	11.2	29
7	Pulsed corona discharge for oxidation of gaseous elemental mercury. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	26
8	Thermal Plasma Gasification of Municipal Solid Waste (MSW). , 0, , .		26
9	Stability of the Reaction Intermediates of Ethylbenzene Disproportionation over Medium-Pore Zeolites with Different Framework Topologies: A Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23626-23637.	3.1	23
10	Reaction Pathways of NO Oxidation by Sodium Chlorite Powder. <i>Environmental Science & Technology</i> , 2009, 43, 5054-5059.	10.0	21
11	Influence of gas components on the oxidation of elemental mercury by positive pulsed corona discharge. <i>Main Group Chemistry</i> , 2008, 7, 191-204.	0.8	19
12	A Family of Molecular Sieves Containing Framework-Bound Organic Structure as Directing Agents. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11097-11101.	13.8	15
13	Insight into the Unique Oxidation Chemistry of Elemental Mercury by Chlorine-Containing Species: Experiment and Simulation. <i>Environmental Science & Technology</i> , 2010, 44, 1624-1629.	10.0	13
14	1,2,4-Trimethylbenzene disproportionation over large-pore zeolites: An experimental and theoretical study. <i>Journal of Catalysis</i> , 2015, 323, 145-157.	6.2	11
15	Effect of hydrogen generated by dielectric barrier discharge of NH ₃ on selective non-catalytic reduction process. <i>Chemosphere</i> , 2009, 75, 815-818.	8.2	10
16	Stepped Propane Adsorption in Pure-Silica ITW Zeolite. <i>Langmuir</i> , 2018, 34, 4774-4779.	3.5	10
17	Polarity effect of pulsed corona discharge for the oxidation of gaseous elemental mercury. <i>Chemosphere</i> , 2011, 84, 1285-1289.	8.2	9
18	Formation of chlorinated species through reaction of SO ₂ with NaClO ₂ powder and their role in the oxidation of NO and Hg ⁰ . <i>Environmental Science and Pollution Research</i> , 2014, 21, 8052-8058.	5.3	9

#	ARTICLE	IF	CITATIONS
19	Quick vaporization of sprayed sodium hypochlorite (NaClO ₂ (aq)) for simultaneous removal of nitrogen oxides (NO _x), sulfur dioxide (SO ₂), and mercury (Hg ⁰). Journal of the Air and Waste Management Association, 2019, 69, 857-866.	1.9	8
20	<i>n</i> -Propylbenzene Disproportionation: An Efficient Tool for Assessing the Framework Topology of Large-Pore Zeolites. Journal of Physical Chemistry C, 2016, 120, 6125-6135.	3.1	7
21	Reaction of SO ₂ with sodium chlorate powder triggering oxidation of NO and Hg ⁰ . Chemical Engineering Journal, 2012, 189-190, 5-12.	12.7	6
22	Preliminary evaluation of NaClO ₂ powder injection method for mercury oxidation: Bench scale experiment using iron-ore sintering flue gas. Korean Journal of Chemical Engineering, 2011, 28, 808-812.	2.7	4
23	Zeolite-Catalyzed Disproportionation of <i>iso</i> -Propylbenzene: Identification of Reaction Intermediates and Mechanism. Journal of Physical Chemistry C, 2016, 120, 11552-11560.	3.1	4
24	Calibration of mercury analysers: assessment of agreement between four methods. Analytical Methods, 2012, 4, 3841.	2.7	1
25	Deconvolution of UV Spectrum for Selective Measurement of ClO ₂ Concentration Quantitatively in Solution Containing Various Chlorine Species. Daehan Hwan'gyeong Gonghag Hoeji, 2012, 34, 743-750.	1.1	0