

Lawrence L Tavlarides

List of Publications by Year in descending order

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papers

751
citations

566801

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829
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of biodiesel from microalgae oil (<i>Chlorella protothecoides</i>) by non-catalytic transesterification in supercritical methanol and ethanol: Process optimization. <i>Journal of Supercritical Fluids</i> , 2015, 97, 174-182.	1.6	102
2	Integrated Technology for Supercritical Biodiesel Production and Power Cogeneration. <i>Energy & Fuels</i> , 2008, 22, 1391-1399.	2.5	97
3	Adsorption of iodine on hydrogen-reduced silver-exchanged mordenite: Experiments and modeling. <i>AIChE Journal</i> , 2017, 63, 1024-1035.	1.8	69
4	Phase inversion studies in liquid-liquid dispersions. <i>Canadian Journal of Chemical Engineering</i> , 1998, 76, 486-494.	0.9	46
5	Isotherms for Water Adsorption on Molecular Sieve 3A: Influence of Cation Composition. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 10442-10448.	1.8	43
6	Characterization and Visible Light Photocatalytic Activity of Cerium- and Iron-Doped Titanium Dioxide Sol-Gel Materials. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 10292-10306.	1.8	34
7	X-ray Absorption Spectroscopy Investigation of Iodine Capture by Silver-Exchanged Mordenite. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 4837-4846.	1.8	32
8	Visible Light Photocatalytic Oxidation of Toluene Using a Cerium-Doped Titania Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 3346-3357.	1.8	30
9	Germanium(IV) Adsorption from Aqueous Solution Using a Kelex-100 Functional Adsorbent. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 4014-4021.	1.8	30
10	Production of biodiesel from microalgae oil (<i>Chlorella protothecoides</i>) by non-catalytic transesterification: Evaluation of reaction kinetic models and phase behavior. <i>Journal of Supercritical Fluids</i> , 2015, 99, 38-50.	1.6	30
11	Chemically active liquid membranes in inorganic supports for metal ion separations. <i>AIChE Journal</i> , 1992, 38, 1957-1968.	1.8	26
12	Kinetics of Water Vapor Adsorption on Single-Layer Molecular Sieve 3A: Experiments and Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 16015-16024.	1.8	25
13	Capture of Iodine from Nuclear-Fuel-Reprocessing Off-Gas: Influence of Aging on a Reduced Silver Mordenite Adsorbent after Exposure to NO/NO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49680-49693.	4.0	24
14	Attenuation of sound in concentrated suspensions: theory and experiments. <i>Journal of Fluid Mechanics</i> , 2001, 430, 51-86.	1.4	23
15	Decomposition of monochlorobiphenyl isomers in supercritical water in the presence of methanol. <i>AIChE Journal</i> , 2004, 50, 1536-1544.	1.8	19
16	Adsorption of methyl iodide on reduced silver-functionalized silica aerogel: Kinetics and modeling. <i>AIChE Journal</i> , 2021, 67, e17137.	1.8	15
17	TURBULENT FLOW IN STIRRED TANKS: SCALE-UP COMPUTATIONS FOR VESSEL HYDRODYNAMICS. <i>Chemical Engineering Communications</i> , 1990, 93, 49-73.	1.5	14
18	Adsorption Equilibrium and Modeling of Water Vapor on Reduced and Unreduced Silver-Exchanged Mordenite. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 8095-8102.	1.8	14

#	ARTICLE	IF	CITATIONS
19	Kinetics of aging process on reduced Ag exchanged mordenite in dry air and humid air. AICHE Journal, 2021, 67, e17182.	1.8	14
20	Silver-Exchanged Mordenite for Capture of Water Vapor in Off-Gas Streams: A Study of Adsorption Kinetics. Industrial & Engineering Chemistry Research, 2018, 57, 1048-1058.	1.8	13
21	Silver-functionalized silica aerogel for iodine capture: Adsorbent aging by NO ₂ in spent nuclear fuel reprocessing off-gas. Microporous and Mesoporous Materials, 2022, 336, 111898.	2.2	11
22	Modeling chemically active liquid membranes in tubular inorganic supports. AICHE Journal, 1995, 41, 1403-1412.	1.8	10
23	Determination of particle size distributions from acoustic wave propagation measurements. Physics of Fluids, 1999, 11, 1065-1080.	1.6	10
24	A mechanistic modeling framework for gas-phase adsorption kinetics and fixed-bed transport. AICHE Journal, 2017, 63, 5029-5043.	1.8	8
25	MODELING OF TURBULENT, NEUTRALLY BUOYANT DROPLET SUSPENSIONS IN LIQUIDS. Chemical Engineering Communications, 1987, 59, 15-32.	1.5	5
26	A cascade-transport model for turbulent shear flows. Physics of Fluids, 1994, 6, 3109-3115.	1.6	5
27	Pyrazole functionalized organo-ceramic hybrids for noble metal separations. AICHE Journal, 2005, 51, 2702-2711.	1.8	2
28	Design of a Small Pilot Plant for the Study of Supercritical Processes for the Production of Biodiesel from Waste Chicken Fat. , 2013, , .		0