

# Lawrence L Tavlarides

## List of Publications by Year in descending order

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28  
papers

751  
citations

566801

15  
h-index

525886

27  
g-index

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28  
docs citations

28  
times ranked

829  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Silver-functionalized silica aerogel for iodine capture: Adsorbent aging by NO <sub>2</sub> in spent nuclear fuel reprocessing off-gas. <i>Microporous and Mesoporous Materials</i> , 2022, 336, 111898.                                      | 2.2 | 11        |
| 2  | Adsorption of methyl iodide on reduced silver-functionalized silica aerogel: Kinetics and modeling. <i>AIChE Journal</i> , 2021, 67, e17137.  | 1.8 | 15        |
| 3  | Kinetics of aging process on reduced Ag exchanged mordenite in dry air and humid air. <i>AIChE Journal</i> , 2021, 67, e17182.  | 1.8 | 14        |
| 4  | Capture of Iodine from Nuclear-Fuel-Reprocessing Off-Gas: Influence of Aging on a Reduced Silver Mordenite Adsorbent after Exposure to NO/NO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 49680-49693.            | 4.0 | 24        |
| 5  | Silver-Exchanged Mordenite for Capture of Water Vapor in Off-Gas Streams: A Study of Adsorption Kinetics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 1048-1058.   | 1.8 | 13        |
| 6  | X-ray Absorption Spectroscopy Investigation of Iodine Capture by Silver-Exchanged Mordenite. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 4837-4846.  | 1.8 | 32        |
| 7  | A mechanistic modeling framework for gas-phase adsorption kinetics and fixed-bed transport. <i>AIChE Journal</i> , 2017, 63, 5029-5043.   | 1.8 | 8         |
| 8  | Adsorption Equilibrium and Modeling of Water Vapor on Reduced and Unreduced Silver-Exchanged Mordenite. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 8095-8102.   | 1.8 | 14        |
| 9  | Adsorption of iodine on hydrogen-reduced silver-exchanged mordenite: Experiments and modeling. <i>AIChE Journal</i> , 2017, 63, 1024-1035.  | 1.8 | 69        |
| 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 | Isotherms for Water Adsorption on Molecular Sieve 3A: Influence of Cation Composition. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 10442-10448.  | 1.8 | 43        |
| 12 | 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       |
| 13 | Kinetics of Water Vapor Adsorption on Single-Layer Molecular Sieve 3A: Experiments and Modeling. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 16015-16024.  | 1.8 | 25        |
| 14 | Design of a Small Pilot Plant for the Study of Supercritical Processes for the Production of Biodiesel from Waste Chicken Fat. , 2013, , .  |     | 0         |
| 15 | Characterization and Visible Light Photocatalytic Activity of Cerium- and Iron-Doped Titanium Dioxide Sol-Gel Materials. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 10292-10306.                                      | 1.8 | 34        |
| 16 | Germanium(IV) Adsorption from Aqueous Solution Using a Kelex-100 Functional Adsorbent. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 4014-4021.  | 1.8 | 30        |
| 17 | Visible Light Photocatalytic Oxidation of Toluene Using a Cerium-Doped Titania Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 3346-3357.  | 1.8 | 30        |
| 18 | Integrated Technology for Supercritical Biodiesel Production and Power Cogeneration. <i>Energy &amp; Fuels</i> , 2008, 22, 1391-1399.   | 2.5 | 97        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Pyrazole functionalized organo-ceramic hybrids for noble metal separations. AICHE Journal, 2005, 51, 2702-2711.                        | 1.8 | 2         |
| 20 | Decomposition of monochlorobiphenyl isomers in supercritical water in the presence of methanol. AICHE Journal, 2004, 50, 1536-1544.    | 1.8 | 19        |
| 21 | Attenuation of sound in concentrated suspensions: theory and experiments. Journal of Fluid Mechanics, 2001, 430, 51-86.                | 1.4 | 23        |
| 22 | Determination of particle size distributions from acoustic wave propagation measurements. Physics of Fluids, 1999, 11, 1065-1080.      | 1.6 | 10        |
| 23 | Phase inversion studies in liquid-liquid dispersions. Canadian Journal of Chemical Engineering, 1998, 76, 486-494.                     | 0.9 | 46        |
| 24 | Modeling chemically active liquid membranes in tubular inorganic supports. AICHE Journal, 1995, 41, 1403-1412.                         | 1.8 | 10        |
| 25 | A cascade-transport model for turbulent shear flows. Physics of Fluids, 1994, 6, 3109-3115.  | 1.6 | 5         |
| 26 | Chemically active liquid membranes in inorganic supports for metal ion separations. AICHE Journal, 1992, 38, 1957-1968.                | 1.8 | 26        |
| 27 | TURBULENT FLOW IN STIRRED TANKS: SCALE-UP COMPUTATIONS FOR VESSEL HYDRODYNAMICS. Chemical Engineering Communications, 1990, 93, 49-73. | 1.5 | 14        |
| 28 | MODELING OF TURBULENT, NEUTRALLY BUOYANT DROPLET SUSPENSIONS IN LIQUIDS. Chemical Engineering Communications, 1987, 59, 15-32.         | 1.5 | 5         |