

# Jason A Widegren

## List of Publications by Year in descending order

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43  
papers

5,765  
citations

304743

22  
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265206

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g-index

45  
all docs

45  
docs citations

45  
times ranked

6220  
citing authors

#	ARTICLE	IF	CITATIONS
1	The distillation and volatility of ionic liquids. <i>Nature</i> , 2006, 439, 831-834.	27.8	1,926
2	A review of the problem of distinguishing true homogeneous catalysis from soluble or other metal-particle heterogeneous catalysis under reducing conditions. <i>Journal of Molecular Catalysis A</i> , 2003, 198, 317-341.	4.8	1,134
3	Electrolytic conductivity of four imidazolium-based room-temperature ionic liquids and the effect of a water impurity. <i>Journal of Chemical Thermodynamics</i> , 2005, 37, 569-575.	2.0	290
4	The effect of dissolved water on the viscosities of hydrophobic room-temperature ionic liquids. <i>Chemical Communications</i> , 2005, , 1610.	4.1	266
5	A review of soluble transition-metal nanoclusters as arene hydrogenation catalysts. <i>Journal of Molecular Catalysis A</i> , 2003, 191, 187-207.	4.8	263
6	Is It Homogeneous or Heterogeneous Catalysis? Identification of Bulk Ruthenium Metal as the True Catalyst in Benzene Hydrogenations Starting with the Monometallic Precursor, Ru(II)( <i>i</i> -6-C <sub>6</sub> Me <sub>6</sub> )(OAc) <sub>2</sub> , Plus Kinetic Characterization of the Heterogeneous Nucleation, Then Autocatalytic Surface-Growth Mechanism of Metal Film Formation. <i>Journal of the American Chemical Society</i> , 2003, 125, 10301-10310.	13.7	236
7	Density, Viscosity, Speed of Sound, and Electrolytic Conductivity for the Ionic Liquid 1-Hexyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide and Its Mixtures with Water. <i>Journal of Chemical &amp; Engineering Data</i> , 2007, 52, 2331-2338.	1.9	219
8	ILThermo: A Free-Access Web Database for Thermodynamic Properties of Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , 2007, 52, 1151-1159.	1.9	197
9	Transient Studies of 2-Propanol Photocatalytic Oxidation on Titania. <i>Journal of Catalysis</i> , 1995, 157, 611-625.	6.2	183
10	Additional Investigations of a New Kinetic Method To Follow Transition-Metal Nanocluster Formation, Including the Discovery of Heterolytic Hydrogen Activation in Nanocluster Nucleation Reactions. <i>Chemistry of Materials</i> , 2001, 13, 312-324.	6.7	138
11	Is It Homogeneous or Heterogeneous Catalysis? Compelling Evidence for Both Types of Catalysts Derived from [Rh( <i>i</i> -5-C <sub>5</sub> Me <sub>5</sub> )Cl <sub>2</sub> ] <sub>2</sub> as a Function of Temperature and Hydrogen Pressure. <i>Journal of the American Chemical Society</i> , 2005, 127, 4423-4432.	13.7	123
12	Thermal Decomposition Kinetics of the Aviation Turbine Fuel Jet A. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 4342-4348.	3.7	78
13	Anisole Hydrogenation with Well-Characterized Polyoxoanion- and Tetrabutylammonium-Stabilized Rh(O) Nanoclusters: Effects of Added Water and Acid, Plus Enhanced Catalytic Rate, Lifetime, and Partial Hydrogenation Selectivity. <i>Inorganic Chemistry</i> , 2002, 41, 1558-1572.	4.0	74
14	Enthalpy of Solution of 1-Octyl-3-methylimidazolium Tetrafluoroborate in Water and in Aqueous Sodium Fluoride. <i>Journal of Chemical &amp; Engineering Data</i> , 2005, 50, 1484-1491.	1.9	67
15	Relative Volatilities of Ionic Liquids by Vacuum Distillation of Mixtures. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8959-8964.	2.6	54
16	Synthesis and characterization of tri-titanium(IV)-1,2,3-substituted $\beta$ -Keggin polyoxotungstates with heteroatoms P and Si. Crystal structure of the dimeric, Ti $\mu_3$ -O $\mu_3$ -Ti bridged anhydride form K <sub>10</sub> H <sub>2</sub> [ $\beta$ -P <sub>2</sub> W <sub>18</sub> Ti <sub>6</sub> O <sub>77</sub> ] $\cdot$ 17H <sub>2</sub> O and confirmation of dimeric forms in aqueous solution by ultracentrifugation molecular weight measurements. <i>Dalton Transactions RSC</i> , 2001, , 2872-2878.	2.3	51
17	Synthesis and pH-variable ultracentrifugation molecular weight measurements of the dimeric, Ti $\mu_3$ -O $\mu_3$ -Ti bridged anhydride form of a novel di-Ti(IV)-1,2-substituted $\beta$ -Keggin polyoxotungstate. Molecular structure of the [ $\beta$ -1,2-PW <sub>10</sub> Ti <sub>2</sub> O <sub>39</sub> ] <sub>2</sub> ] $\cdot$ 10H <sub>2</sub> O polyoxoanion. <i>Dalton Transactions RSC</i> , 2002, , 3679-3685.	2.3	41
18	Gas Saturation Vapor Pressure Measurements of Mononitrotoluene Isomers from (283.15 to 313.15) K. <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 159-164.	1.9	36

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19	Thermal Decomposition Kinetics of Kerosene-Based Rocket Propellants. 1. Comparison of RP-1 and RP-2. <i>Energy &amp; Fuels</i> , 2009, 23, 5517-5522.	5.1	35
20	Synthesis and characterization of the tetrameric, tri-titanium(IV)-substituted Wellsâ€“Dawson-substructure polyoxotungstate, [(P2W15Ti3O60.5)4]36âˆ-: the significance of ultracentrifugation molecular weight measurements in detecting aggregated, anhydride forms of polyoxoanions. <i>Inorganica Chimica Acta</i> , 2000, 300-302, 285-304.	2.4	30
21	Thermal Decomposition Kinetics of Kerosene-Based Rocket Propellants. 2. RP-2 with Three Additives. <i>Energy &amp; Fuels</i> , 2009, 23, 5523-5528.	5.1	28
22	Thermal Decomposition Kinetics of Propylcyclohexane. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 654-659.	3.7	24
23	Vapor pressure measurements on saturated biodiesel fuel esters by the concatenated gas saturation method. <i>Fuel</i> , 2011, 90, 1833-1839.	6.4	24
24	Vapor Pressure Measurements on Low-Volatility Terpenoid Compounds by the Concatenated Gas Saturation Method. <i>Environmental Science &amp; Technology</i> , 2010, 44, 388-393.	10.0	22
25	<sup>1</sup> H and <sup>13</sup> C NMR Analysis of Gas Turbine Fuels As Applied to the Advanced Distillation Curve Method. <i>Energy &amp; Fuels</i> , 2015, 29, 4874-4885.	5.1	22
26	Chemical and Thermophysical Characterization of an Algae-Based Hydrotreated Renewable Diesel Fuel. <i>Energy &amp; Fuels</i> , 2014, 28, 3192-3205.	5.1	19
27	Improved synthesis and crystal structure of tetrakis(acetonitrile)( $\eta$ -4-1,5-cyclooctadiene)ruthenium(II) bis[tetrafluoroborate( $\eta$ -)]. <i>Journal of Organometallic Chemistry</i> , 2000, 610, 112-117.	1.8	18
28	Thermal Decomposition Kinetics of Kerosene-Based Rocket Propellants. 3. RP-2 with Varying Concentrations of the Stabilizing Additive 1,2,3,4-Tetrahydroquinoline. <i>Energy &amp; Fuels</i> , 2011, 25, 288-292.	5.1	16
29	Thermal Decomposition Kinetics of the Thermally Stable Jet Fuels JP-7, JP-TS and JP-900. <i>Energy &amp; Fuels</i> , 2014, 28, 3036-3042.	5.1	16
30	Thermal Decomposition Kinetics of Polyol Ester Lubricants. <i>Energy &amp; Fuels</i> , 2016, 30, 10161-10170.	5.1	14
31	Thermal Stability of RP-2 as a Function of Composition: The Effect of Linear, Branched, and Cyclic Alkanes. <i>Energy &amp; Fuels</i> , 2013, 27, 5138-5143.	5.1	11
32	Thermal Decomposition Kinetics of 1,3,5-Triisopropylcyclohexane. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 8200-8205.	3.7	11
33	Measurement and Correlation of Densities and Dynamic Viscosities of Perfluoropolyether Oils. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 8460-8471.	3.7	9
34	Enthalpy of adsorption for hydrocarbons on concrete by inverse gas chromatography. <i>Journal of Chromatography A</i> , 2011, 1218, 4474-4477.	3.7	7
35	Vapor Pressure Measurements by the Gas Saturation Method: The Influence of the Carrier Gas. <i>Journal of Chemical &amp; Engineering Data</i> , 2015, 60, 1173-1180.	1.9	7
36	Chemical and Thermophysical Characterization of 1,3,5-Triisopropylcyclohexane. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 2343-2349.	1.9	6

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37	Direct Measurement of Trace Polycyclic Aromatic Hydrocarbons in Diesel Fuel with $^1\text{H}$ and $^{13}\text{C}$ NMR Spectroscopy: Effect of PAH Content on Fuel Lubricity. <i>Energy &amp; Fuels</i> , 2015, 29, 4289-4297.	5.1	6
38	Composition Determination of Low-Pressure Gas-Phase Mixtures by $^1\text{H}$ NMR Spectroscopy. <i>Analytical Chemistry</i> , 2019, 91, 4429-4435.	6.5	6
39	Rapid Vapor-Collection Method for Vapor Pressure Measurements of Low-Volatility Compounds. <i>Analytical Chemistry</i> , 2020, 92, 16253-16259.	6.5	6
40	The Use of Antioxidants to Improve Vapor Pressure Measurements on Compounds with Oxidative Instability: Methyl Oleate with <i>tert</i> -Butylhydroquinone. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 539-546.	1.9	4
41	Nuclear Magnetic Resonance (NMR) Spectroscopy for the <i>In Situ</i> Measurement of Vapor-Liquid Equilibria. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 3318-3333.	1.9	4
42	Hygroscopic Tendencies of Substances Used as Calibrants for Quantitative Nuclear Magnetic Resonance Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 16977-16980.	6.5	2
43	The Problem of Distinguishing True Homogeneous Catalysis from Soluble or Other Metal-Particle Heterogeneous Catalysis under Reducing Conditions. <i>ChemInform</i> , 2003, 34, no.	0.0	0