Jason A Widegren

List of Publications by Year
in descending order

43 papers	5,765 citations	304368 22 h-index	264894 42 g-index
45 all docs	45 docs citations	45 times ranked	6220 citing authors

#	Article	IF	Citations
1	Hygroscopic Tendencies of Substances Used as Calibrants for Quantitative Nuclear Magnetic Resonance Spectroscopy. Analytical Chemistry, 2021, 93, 16977-16980.	3.2	2
2	Nuclear Magnetic Resonance (NMR) Spectroscopy for the In Situ Measurement of Vaporâ€“Liquid Equilibria. Journal of Chemical & Engineering Data, 2020, 65, 3318-3333.	1.0	4
3	Rapid Vapor-Collection Method for Vapor Pressure Measurements of Low-Volatility Compounds. Analytical Chemistry, 2020, 92, 16253-16259.	3.2	6
4	Composition Determination of Low-Pressure Gas-Phase Mixtures by ¹H NMR Spectroscopy. Analytical Chemistry, 2019, 91, 4429-4435.	3.2	6
5	The Use of Antioxidants to Improve Vapor Pressure Measurements on Compounds with Oxidative Instability: Methyl Oleate with tert-Butylhydroquinone. Journal of Chemical & Engineering Data, 2017, 62, 539-546.	1.0	4
6	Thermal Decomposition Kinetics of Polyol Ester Lubricants. Energy & Fuels, 2016, 30, 10161-10170.	2.5	14
7	Measurement and Correlation of Densities and Dynamic Viscosities of Perfluoropolyether Oils. Industrial & Engineering Chemistry Research, 2016, 55, 8460-8471.	1.8	9
8	Direct Measurement of Trace Polycyclic Aromatic Hydrocarbons in Diesel Fuel with1H and13C NMR Spectroscopy: Effect of PAH Content on Fuel Lubricity. Energy & Fuels, 2015, 29, 4289-4297.	2.5	6
9	Vapor Pressure Measurements by the Gas Saturation Method: The Influence of the Carrier Gas. Journal of Chemical & Engineering Data, 2015, 60, 1173-1180.	1.0	7
10	¹H and ¹³C NMR Analysis of Gas Turbine Fuels As Applied to the Advanced Distillation Curve Method. Energy & Fuels, 2015, 29, 4874-4885.	2.5	22
11	Thermal Decomposition Kinetics of the Thermally Stable Jet Fuels JP-7, JP-TS and JP-900. Energy & Fuels, 2014, 28, 3036-3042.	2.5	16
12	Chemical and Thermophysical Characterization of an Algae-Based Hydrotreated Renewable Diesel Fuel. Energy & Fuels, 2014, 28, 3192-3205.	2.5	19
13	Thermal Stability of RP-2 as a Function of Composition: The Effect of Linear, Branched, and Cyclic Alkanes. Energy & Fuels, 2013, 27, 5138-5143.	2.5	11
14	Thermal Decomposition Kinetics of 1,3,5-Triisopropylcyclohexane. Industrial & Engineering Chemistry Research, 2013, 52, 8200-8205.	1.8	11
15	Chemical and Thermophysical Characterization of 1,3,5-Triisopropylcyclohexane. Journal of Chemical & Engineering Data, 2012, 57, 2343-2349.	1.0	6
16	Thermal Decomposition Kinetics of Kerosene-Based Rocket Propellants. 3. RP-2 with Varying Concentrations of the Stabilizing Additive 1,2,3,4-Tetrahydroquinoline. Energy & Fuels, 2011, 25, 288-292.	2.5	16
17	Enthalpy of adsorption for hydrocarbons on concrete by inverse gas chromatography. Journal of Chromatography A, 2011, 1218, 4474-4477.	1.8	7
18	Vapor pressure measurements on saturated biodiesel fuel esters by the concatenated gas saturation method. Fuel, 2011, 90, 1833-1839.	3.4	24

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19	Vapor Pressure Measurements on Low-Volatility Terpenoid Compounds by the Concatenated Gas Saturation Method. Environmental Science & Technology, 2010, 44, 388-393.	4.6	22
20	Gas Saturation Vapor Pressure Measurements of Mononitrotoluene Isomers from (283.15 to 313.15) K. Journal of Chemical & Engineering Data, 2010, 55, 159-164.	1.0	36
21	Thermal Decomposition Kinetics of Propylcyclohexane. Industrial & Engineering Chemistry Research, 2009, 48, 654-659.	1.8	24
22	Thermal Decomposition Kinetics of Kerosene-Based Rocket Propellants. 1. Comparison of RP-1 and RP-2. Energy & Fuels, 2009, 23, 5517-5522.	2.5	35
23	Thermal Decomposition Kinetics of Kerosene-Based Rocket Propellants. 2. RP-2 with Three Additives^{â€}. Energy & Fuels, 2009, 23, 5523-5528.	2.5	28
24	Thermal Decomposition Kinetics of the Aviation Turbine Fuel Jet A. Industrial & Engineering Chemistry Research, 2008, 47, 4342-4348.	1.8	78
25	Relative Volatilities of Ionic Liquids by Vacuum Distillation of Mixtures. Journal of Physical Chemistry B, 2007, 111, 8959-8964.	1.2	54
26	ILThermo:â€‰A Free-Access Web Database for Thermodynamic Properties of Ionic Liquids. Journal of Chemical & Engineering Data, 2007, 52, 1151-1159.	1.0	197
27	Density, Viscosity, Speed of Sound, and Electrolytic Conductivity for the Ionic Liquid 1-Hexyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide and Its Mixtures with Water. Journal of Chemical & Engineering Data, 2007, 52, 2331-2338.	1.0	219
28	The distillation and volatility of ionic liquids. Nature, 2006, 439, 831-834.	13.7	1,926
29	Electrolytic conductivity of four imidazolium-based room-temperature ionic liquids and the effect of a water impurity. Journal of Chemical Thermodynamics, 2005, 37, 569-575.	1.0	290
30	The effect of dissolved water on the viscosities of hydrophobic room-temperature ionic liquids. Chemical Communications, 2005, , 1610.	2.2	266
31	Is It Homogeneous or Heterogeneous Catalysis? Compelling Evidence for Both Types of Catalysts Derived from [Rh(Î·5-C5Me5)Cl2]2as a Function of Temperature and Hydrogen Pressure. Journal of the American Chemical Society, 2005, 127, 4423-4432.	6.6	123
32	Enthalpy of Solution of 1-Octyl-3-methylimidazolium Tetrafluoroborate in Water and in Aqueous Sodium Fluoride. Journal of Chemical & Engineering Data, 2005, 50, 1484-1491.	1.0	67
33	The Problem of Distinguishing True Homogeneous Catalysis from Soluble or Other Metal-Particle Heterogeneous Catalysis under Reducing Conditions. ChemInform, 2003, 34, no.	0.1	0
34	A review of soluble transition-metal nanoclusters as arene hydrogenation catalysts. Journal of Molecular Catalysis A, 2003, 191, 187-207.	4.8	263
35	A review of the problem of distinguishing true homogeneous catalysis from soluble or other metal-particle heterogeneous catalysis under reducing conditions. Journal of Molecular Catalysis A, 2003, 198, 317-341.	4.8	1,134
36	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)(Î·6-C6Me6)(OAc)2, Plus Kinetic Characterization of the Heterogeneous Nucleation, Then Autocatalytic Surface-Growth Mechanism of Metal Film Formation. Journal of the American Chemical Society, 2003, 125, 10301-10310.	6.6	236

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37	Anisole Hydrogenation with Well-Characterized Polyoxoanion- and Tetrabutylammonium-Stabilized Rh(0) Nanoclusters:Â Effects of Added Water and Acid, Plus Enhanced Catalytic Rate, Lifetime, and Partial Hydrogenation Selectivity. Inorganic Chemistry, 2002, 41, 1558-1572.	1.9	74
38	Synthesis and pH-variable ultracentrifugation molecular weight measurements of the dimeric, Tiâ€“Oâ€“Ti bridged anhydride form of a novel di-TiIV-1,2-substituted Î±-Keggin polyoxotungstate. Molecular structure of the [(Î±-1,2-PW10Ti2O39)2]10â^'polyoxoanion. Dalton Transactions RSC, 2002, , 3679-3685.	2.3	41
39	Additional Investigations of a New Kinetic Method To Follow Transition-Metal Nanocluster Formation, Including the Discovery of Heterolytic Hydrogen Activation in Nanocluster Nucleation Reactions. Chemistry of Materials, 2001, 13, 312-324.	3.2	138
40	Synthesis and characterization of tri-titanium(iv)-1,2,3-substituted Î±-Keggin polyoxotungstates with heteroatoms P and Si. Crystal structure of the dimeric, Tiâ€“Oâ€“Ti bridged anhydride form K10H2[Î±,Î±-P2W18Ti6O77]Â·17H2O and confirmation of dimeric forms in aqueous solution by ultracentrifugation molecular weight measurementsâ€. Dalton Transactions RSC, 2001, , 2872-2878.	2.3	51
41	Synthesis and characterization of the tetrameric, tri-titanium(IV)-substituted Wellsâ€“Dawson-substructure polyoxotungstate, [(P2W15Ti3O60.5)4]36â^': the significance of ultracentrifugation molecular weight measurements in detecting aggregated, anhydride forms of polyoxoanions. Inorganica Chimica Acta, 2000, 300-302, 285-304.	1.2	30
42	Improved synthesis and crystal structure of tetrakis(acetonitrile)(Î·4-1,5-cyclooctadiene)ruthenium(II) bis[tetrafluoroborate(1â^')]. Journal of Organometallic Chemistry, 2000, 610, 112-117.	0.8	18
43	Transient Studies of 2-Propanol Photocatalytic Oxidation on Titania. Journal of Catalysis, 1995, 157, 611-625.	3.1	183