

W Vincent Wilding

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40 papers	730 citations	15 h-index	26 g-index
40 ext. papers	801 ext. citations	3.2 avg, IF	3.69 L-index

#	Paper	IF	Citations
40	A Liquid Heat Capacity Limit for Organic Compounds. <i>International Journal of Thermophysics</i> , 2022 , 43, 1	2.1	1
39	An improved method for predicting autoignition temperatures based on first principles. <i>Fuel</i> , 2022 , 323, 124245	7.1	1
38	Modulated Differential Scanning Calorimetry Measurements of 27 Compounds. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 2773-2782	2.8	2
37	Proper Use of the DIPPR 801 Database for Creation of Models, Methods, and Processes. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 3-10	2.8	14
36	A study of unexpected autoignition temperature trends for pure n-alkanes. <i>Fuel</i> , 2021 , 306, 121710	7.1	0
35	Liquid Heat Capacity Measurements of the Linear Dicarboxylic Acid Family via Modulated Differential Scanning Calorimetry. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 591-597	2.8	2
34	Development of bioreactors for comparative study of natural attenuation, biostimulation, and bioaugmentation of petroleum-hydrocarbon contaminated soil. <i>Journal of Hazardous Materials</i> , 2018 , 342, 270-278	12.8	79
33	Developing an internally consistent set of theoretically based prediction models for the critical constants and normal boiling point of large n -alkanes. <i>Fluid Phase Equilibria</i> , 2017 , 449, 104-116	2.5	3
32	Uncertainty quantification and propagation of errors of the Lennard-Jones 12-6 parameters for n-alkanes. <i>Journal of Chemical Physics</i> , 2017 , 146, 194110	3.9	18
31	New Vapor-Pressure Prediction with Improved Thermodynamic Consistency using the Riedel Equation. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 14678-14685	3.9	4
30	The Riedel vapor pressure correlation and multi-property optimization. <i>Fluid Phase Equilibria</i> , 2016 , 429, 149-165	2.5	4
29	Improved Estimates of the Critical Point Constants for Large n-Alkanes Using Gibbs Ensemble Monte Carlo Simulations. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 3640-3649	2.8	2
28	An improved approach for predicting the critical constants of large molecules with Gibbs Ensemble Monte Carlo simulation. <i>Fluid Phase Equilibria</i> , 2016 , 425, 432-442	2.5	6
27	An improved statistical analysis for predicting the critical temperature and critical density with Gibbs ensemble Monte Carlo simulation. <i>Journal of Chemical Physics</i> , 2015 , 143, 104101	3.9	7
26	Vapor PVT and Vapor Pressure of Hydrogen Fluoride. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 983-990	2.8	7
25	Critically Evaluated Database of Environmental Properties: The Importance of Thermodynamic Relationships, Chemical Family Trends, and Prediction Methods. <i>International Journal of Thermophysics</i> , 2013 , 34, 2027-2045	2.1	4
24	Infinite dilution activity coefficients and Henry's law constants of compounds in water using the inert gas stripping method. <i>Fluid Phase Equilibria</i> , 2013 , 348, 45-51	2.5	15

23	Ternary Liquid-Liquid Equilibrium of Biodiesel Compounds for Systems Consisting of a Methyl Ester + Glycerin + Water. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1001-1004	2.8	10
22	Prediction of pure-component flash points for organic compounds. <i>Fire and Materials</i> , 2011 , 35, 343-351	1.8	14
21	A Local-Composition Model for the Prediction of Mixture Dielectric Constants. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2430-2437	2.8	6
20	Experimental Determination and Re-examination of the Effect of Initial Temperature on the Lower Flammability Limit of Pure Liquids. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 3063-3067	2.8	22
19	A Quantitative Structure Property Relation Correlation of the Dielectric Constant for Organic Chemicals. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 41-45	2.8	17
18	Measurement of Activities of Toluene and Trichloroethylene in Polyisobutylene. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2233-2236	2.8	2
17	Database Tools for Evaluating Thermophysical Property Data. <i>International Journal of Thermophysics</i> , 2007 , 28, 805-823	2.1	7
16	A Note on the Relationship between Organic Solid Density and Liquid Density at the Triple Point. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 1512-1514	2.8	46
15	Liquid Thermal Conductivities of Acetonitrile, Diethyl Sulfide, Hexamethyleneimine, Tetrahydrothiophene, and Tetramethylethylenediamine. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 1433-1435	2.8	5
14	Use of the DIPPR Database for Development of Quantitative Structure Property Relationship Correlations: Heat Capacity of Solid Organic Compounds. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 24-31	2.8	37
13	Vapor-Liquid Equilibrium Measurements for Three Binary Mixtures: Allyl Alcohol/Acetonitrile, 2-Butoxyethanol/Acetic Acid, and 1-Methoxy-2-Propanol/2,3-Epoxy-1-Propanol. <i>Journal of Chemical & Engineering Data</i> , 2002 , 47, 740-747	2.8	4
12	Use of the DIPPR Database for Development of QSPR Correlations: Normal Boiling Point. <i>Journal of Chemical & Engineering Data</i> , 2002 , 47, 1293-1302	2.8	28
11	Vapor-Liquid Equilibrium Measurements on Three Binary Mixtures: Difluoromethane/Hydrogen Chloride, cis-1,3-Dichloropropene/trans-1,3-Dichloropropene, and Pyrrole/Water. <i>Journal of Chemical & Engineering Data</i> , 2002 , 47, 748-756	2.8	8
10	Use of the DIPPR Database for Development of QSPR Correlations: Surface Tension. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 1007-1012	2.8	122
9	Development of an Automated SMILES Pattern Matching Program To Facilitate the Prediction of Thermophysical Properties by Group Contribution Methods. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 1110-1113	2.8	5
8	Measurement of the Absorption Rate of Carbon Dioxide into Aqueous Diethanolamine. <i>Journal of Chemical & Engineering Data</i> , 1998 , 43, 427-432	2.8	6
7	Phase Equilibria on Eight Binary Mixtures. <i>Journal of Chemical & Engineering Data</i> , 1997 , 42, 1067-1074	2.4	21
6	Measurement of Diffusion Coefficients Important in Modeling the Absorption Rate of Carbon Dioxide into Aqueous N-Methyldiethanolamine. <i>Journal of Chemical & Engineering Data</i> , 1997 , 42, 310-317	2.8	32

5	Critical Point Measurements for Fourteen Compounds by a Static Method and a Flow Method. <i>Journal of Chemical & Engineering Data</i> , 1996 , 41, 1252-1254	2.8	37
4	Phase Equilibrium Measurements on Nine Binary Mixtures. <i>Journal of Chemical & Engineering Data</i> , 1996 , 41, 1239-1251	2.8	33
3	Phase Equilibrium Measurements on Twelve Binary Mixtures. <i>Journal of Chemical & Engineering Data</i> , 1996 , 41, 1223-1238	2.8	49
2	Critical Point Measurements by a New Flow Method and a Traditional Static Method. <i>Journal of Chemical & Engineering Data</i> , 1995 , 40, 765-768	2.8	39
1	Vapor-liquid equilibrium measurements on the N,N-dimethylformamide/1-butanol system at 65 and 125.degree.C. <i>Journal of Chemical & Engineering Data</i> , 1991 , 36, 346-349	2.8	11