

Eric Lemmon

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68

papers

5,112

citations

30

h-index

71

g-index

71

ext. papers

5,738

ext. citations

3.3

avg, IF

5.84

L-index

#	Paper	IF	Citations
68	A Reference Equation of State for the Thermodynamic Properties of Nitrogen for Temperatures from 63.151 to 1000 K and Pressures to 2200 MPa. <i>Journal of Physical and Chemical Reference Data</i> , 2000 , 29, 1361-1433	4.3	530
67	Short Fundamental Equations of State for 20 Industrial Fluids. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 785-850	2.8	504
66	Viscosity and Thermal Conductivity Equations for Nitrogen, Oxygen, Argon, and Air. <i>International Journal of Thermophysics</i> , 2004 , 25, 21-69	2.1	446
65	A Formulation for the Static Permittivity of Water and Steam at Temperatures from 238 K to 873 K at Pressures up to 1200 MPa, Including Derivatives and Debye-Hückel Coefficients. <i>Journal of Physical and Chemical Reference Data</i> , 1997 , 26, 1125-1166	4.3	370
64	Fundamental Equations of State for Parahydrogen, Normal Hydrogen, and Orthohydrogen. <i>Journal of Physical and Chemical Reference Data</i> , 2009 , 38, 721-748	4.3	340
63	Thermodynamic Properties of Air and Mixtures of Nitrogen, Argon, and Oxygen From 60 to 2000 K at Pressures to 2000 MPa. <i>Journal of Physical and Chemical Reference Data</i> , 2000 , 29, 331-385	4.3	326
62	Thermodynamic Properties of Propane. III. A Reference Equation of State for Temperatures from the Melting Line to 650 K and Pressures up to 1000 MPa. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 3141-3180	2.8	228
61	A New Functional Form and New Fitting Techniques for Equations of State with Application to Pentafluoroethane (HFC-125). <i>Journal of Physical and Chemical Reference Data</i> , 2005 , 34, 69-108	4.3	162
60	Thermodynamic Properties of 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf): Vapor Pressure and p^{sat} Measurements and an Equation of State. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 3254-3264	2.8	145
59	Correlation for the Second Virial Coefficient of Water. <i>Journal of Physical and Chemical Reference Data</i> , 2004 , 33, 369-376	4.3	139
58	Critical Properties and Vapor Pressure Equation for Alkanes C_nH_{2n+2} : Normal Alkanes With $n \geq 36$ and Isomers for $n=4$ Through $n=9$. <i>Journal of Physical and Chemical Reference Data</i> , 2000 , 29, 1-39	4.3	132
57	Thermodynamic Properties of n-Dodecane. <i>Energy & Fuels</i> , 2004 , 18, 960-967	4.1	106
56	A Generalized Model for the Thermodynamic Properties of Mixtures. <i>International Journal of Thermophysics</i> , 1999 , 20, 825-835	2.1	105
55	Surrogate Mixture Models for the Thermophysical Properties of Aviation Fuel Jet-A. <i>Energy & Fuels</i> , 2010 , 24, 3565-3571	4.1	102
54	Chemically Authentic Surrogate Mixture Model for the Thermophysical Properties of a Coal-Derived Liquid Fuel. <i>Energy & Fuels</i> , 2008 , 22, 3249-3257	4.1	90
53	Equations of State for Mixtures of R-32, R-125, R-134a, R-143a, and R-152a. <i>Journal of Physical and Chemical Reference Data</i> , 2004 , 33, 593-620	4.3	90
52	A Reference Quality Equation of State for Nitrogen. <i>International Journal of Thermophysics</i> , 1998 , 19, 1121-1132	2.1	87

51	Model for the Thermodynamic Properties of a Biodiesel Fuel. <i>Energy & Fuels</i> , 2009 , 23, 3790-3797	4.1	86
50	Preliminary Surrogate Mixture Models for the Thermophysical Properties of Rocket Propellants RP-1 and RP-2. <i>Energy & Fuels</i> , 2009 , 23, 3083-3088	4.1	81
49	An International Standard Formulation for the Thermodynamic Properties of 1,1,1-Trifluoroethane (HFC-143a) for Temperatures From 161 to 450 K and Pressures to 50 MPa. <i>Journal of Physical and Chemical Reference Data</i> , 2000 , 29, 521-552	4.3	72
48	Experimental densities, vapor pressures, and critical point, and a fundamental equation of state for dimethyl ether. <i>Fluid Phase Equilibria</i> , 2007 , 260, 36-48	2.5	71
47	Thermodynamic Properties of trans-1-Chloro-3,3,3-trifluoropropene (R1233zd(E)): Vapor Pressure, (p, ρ) Behavior, and Speed of Sound Measurements, and Equation of State. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 2477-2489	2.8	66
46	Equation of State for the Thermodynamic Properties of trans-1,3,3,3-Tetrafluoropropene [R-1234ze(E)]. <i>International Journal of Thermophysics</i> , 2016 , 37, 1	2.1	66
45	A Helmholtz energy equation of state for calculating the thermodynamic properties of fluid mixtures. <i>Fluid Phase Equilibria</i> , 1999 , 165, 1-21	2.5	58
44	ThermoData Engine (TDE): software implementation of the dynamic data evaluation concept. 2. Equations of state on demand and dynamic updates over the web. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 1713-25	6.1	54
43	Pseudo-Pure Fluid Equations of State for the Refrigerant Blends R-410A, R-404A, R-507A, and R-407C. <i>International Journal of Thermophysics</i> , 2003 , 24, 991-1006	2.1	46
42	Method for Estimating the Dielectric Constant of Natural Gas Mixtures. <i>International Journal of Thermophysics</i> , 2005 , 26, 31-46	2.1	45
41	A Fundamental Equation for Trifluoromethane (R-23). <i>Journal of Physical and Chemical Reference Data</i> , 2003 , 32, 1473-1499	4.3	38
40	Automatic Fitting of Binary Interaction Parameters for Multi-fluid Helmholtz-Energy-Explicit Mixture Models. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 3752-3760	2.8	36
39	Thermodynamic Properties of R-227ea, R-365mfc, R-115, and R-1311. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 3745-3758	2.8	32
38	Thermodynamic properties for the alternative refrigerants. <i>International Journal of Refrigeration</i> , 1998 , 21, 322-338	3.8	30
37	Correlation for the Vapor Pressure of Heavy Water From the Triple Point to the Critical Point. <i>Journal of Physical and Chemical Reference Data</i> , 2002 , 31, 173-181	4.3	30
36	A Fundamental Equation of State for 1,1,1,3,3-Pentafluoropropane (R-245fa). <i>Journal of Physical and Chemical Reference Data</i> , 2015 , 44, 013104	4.3	26
35	Current Status of Thermodynamic Properties of Hydrogen. <i>International Journal of Thermophysics</i> , 2007 , 28, 758-772	2.1	26
34	Thermodynamic Properties of 1,1,1,2,2,4,5,5,5-Nonafluoro-4-(trifluoromethyl)-3-pentanone: Vapor Pressure, (p, ρ) Behavior, and Speed of Sound Measurements, and an Equation of State. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 3646-3659	2.8	25

33	A Reference Equation of State for Heavy Water. <i>Journal of Physical and Chemical Reference Data</i> , 2018 , 47, 043102	4.3	22
32	Fundamental Equations of State for cis-1,3,3,3-Tetrafluoropropene [R-1234ze(Z)] and 3,3,3-Trifluoropropene (R-1243zf). <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4679-4691	2.8	21
31	A Helmholtz Energy Equation of State for Sulfur Dioxide. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 2859-2872	2.8	21
30	EOS-LNG: A Fundamental Equation of State for the Calculation of Thermodynamic Properties of Liquefied Natural Gases. <i>Journal of Physical and Chemical Reference Data</i> , 2019 , 48, 033102	4.3	21
29	An equation of state and compressed liquid and supercritical densities for sulfur dioxide. <i>Fluid Phase Equilibria</i> , 2003 , 207, 111-130	2.5	21
28	Speed of Sound Measurements and a Fundamental Equation of State for Cyclopentane. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 1331-1337	2.8	19
27	Bubble-Point Measurements of Eight Binary Mixtures for Organic Rankine Cycle Applications. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1853-1860	2.8	19
26	Isobaric heat capacities of carbon dioxide and argon between 323 and 423 K and at pressures up to 25 MPa. <i>Journal of Supercritical Fluids</i> , 1995 , 8, 228-235	4.2	16
25	Consistent Two Parameters for More than 2500 Pure Fluids from Critically Evaluated Experimental Data. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 2402-2409	2.8	13
24	Determination of the thermodynamic properties of water from the speed of sound. <i>Journal of Chemical Thermodynamics</i> , 2017 , 109, 61-70	2.9	13
23	Establishing benchmarks for the Second Industrial Fluids Simulation Challenge. <i>Fluid Phase Equilibria</i> , 2005 , 236, 15-24	2.5	13
22	18 Multiparameter equations of state. <i>Experimental Thermodynamics</i> , 2000 , 5, 849-881		13
21	Equation of State for the Thermodynamic Properties of 1,1,2,2,3-Pentafluoropropane (R-245ca). <i>International Journal of Thermophysics</i> , 2016 , 37, 1	2.1	11
20	Equations of State for the Thermodynamic Properties of Binary Mixtures for Helium-4, Neon, and Argon. <i>Journal of Physical and Chemical Reference Data</i> , 2020 , 49, 023101	4.3	9
19	An extended corresponding-states model for predicting thermodynamic properties of N ₂ -Ar-O ₂ mixtures including vapor-liquid equilibrium. <i>International Journal of Thermophysics</i> , 1994 , 15, 1289-1298	2.1	9
18	Thermodynamic properties of trifluoroethene (R1123): (p, T) behavior and fundamental equation of state. <i>International Journal of Refrigeration</i> , 2020 , 119, 457-467	3.8	9
17	Thermodynamic Properties of Air from 60 to 2000 K at Pressures up to 2000 MPa. <i>International Journal of Thermophysics</i> , 1999 , 20, 217-228	2.1	8
16	An analytical solubility model for nitrogen-methane-ethane ternary mixtures. <i>Icarus</i> , 2018 , 299, 175-186	3.8	7

15	The Precise Measurement of Vapor/Liquid Equilibrium Properties of the CO ₂ /Isopentane Binary Mixture, and Fitted Parameters for a Helmholtz Energy Mixture Model. <i>International Journal of Thermophysics</i> , 2017 , 38, 1	2.1	6
14	Equations of State on Demand: Application for Surrogate Fuel Development. <i>International Journal of Thermophysics</i> , 2011 , 32, 596-613	2.1	6
13	Thermodynamic Properties of Mixtures of R-32, R-125, R-134a, and R-152a. <i>International Journal of Thermophysics</i> , 1999 , 20, 1629-1638	2.1	6
12	The selection of international standards for the thermodynamic properties of HFC-134a and HCFC-123. <i>International Journal of Thermophysics</i> , 1995 , 16, 781-790	2.1	6
11	New Equations of State for Binary Hydrogen Mixtures Containing Methane, Nitrogen, Carbon Monoxide, and Carbon Dioxide. <i>Journal of Physical and Chemical Reference Data</i> , 2021 , 50, 013102	4.3	5
10	The NIST REFPROP Database for Highly Accurate Properties of Industrially Important Fluids. <i>Industrial & Engineering Chemistry Research</i> ,	3.9	5
9	Thermodynamic Properties of Cryogenic Fluids. <i>The International Cryogenics Monograph Series</i> , 2017 ,	0	4
8	Fundamental Thermodynamic Models for Mixtures Containing Ammonia. <i>Fluid Phase Equilibria</i> , 2020 , 511, 112496	2.5	3
7	Algorithms for the calculation of psychrometric properties from multi-fluid Helmholtz-energy-explicit models. <i>International Journal of Refrigeration</i> , 2018 , 87, 26-38	3.8	3
6	Equations of State for the Thermodynamic Properties of n-Perfluorobutane, n-Perfluoropentane, and n-Perfluorohexane. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 17207-17227	3.9	3
5	Speed-of-Sound Measurements and a Fundamental Equation of State for Propylene Glycol. <i>Journal of Physical and Chemical Reference Data</i> , 2021 , 50, 023105	4.3	3
4	A fundamental equation of state for the calculation of thermodynamic properties of chlorine. <i>AICHE Journal</i> , 2021 , 67, e17326	3.6	2
3	A Fundamental Equation of State for Chloroethene for Temperatures from the Triple Point to 430K and Pressures to 100MPa. <i>International Journal of Thermophysics</i> , 2022 , 43, 1	2.1	1
2	Equations of State for the Thermodynamic Properties of Three Hexane Isomers: 3-Methylpentane, 2,2-Dimethylbutane, and 2,3-Dimethylbutane. <i>Journal of Physical and Chemical Reference Data</i> , 2021 , 50, 033103	4.3	1
1	An International Standard Formulation for trans-1-Chloro-3,3,3-trifluoroprop-1-ene [R1233zd(E)] Covering Temperatures from the Triple-Point Temperature to 450K and Pressures up to 100 MPa. <i>Journal of Physical and Chemical Reference Data</i> , 2022 , 51, 023101	4.3	1