Jean-Luc Daridon

List of Publications by Year in Descending Order

105 papers	2,402 citations	27 h-index	45 g-index
111 ext. papers	2,681 ext. citations	3.3 avg, IF	5 L-index

#	Paper	IF	Citations
105	Speed of Sound, Density, and Related Thermophysical Properties of the Methyl Caprate + Methyl Oleate Binary System from 0.1 MPa to 70 MPa at 303.15 K. *International Journal of Thermophysics*, **2022**, 43, 1	2.1	1
104	Fluid phase equilibria for the CO2 + 2,3-dimethylbutane binary system from 291.9 K to 373.1 K. *Journal of Supercritical Fluids*, **2022**, 179, 105387	4.2	2
103	Predicting and Correlating Speed of Sound in Long-Chain Alkanes at High Pressure. *International Journal of Thermophysics*, **2022**, 43, 1	2.1	0
102	High-Pressure Phase Equilibria Measurements of the Carbon Dioxide + Cycloheptane Binary System. *Journal of Chemical & Engineering Data*, **2022**, 67, 176-181	2.8	0
101	Evaluation of the Influence of a Chemical Inhibitor on Asphaltene Destabilization and Deposition Mechanisms under Atmospheric and Oil Production Conditions Using QCM and AFM Techniques. *Energy & Fuels*, **2021**, 35, 17551-17565	4.1	3
100	Computation of Isobaric Thermal Expansivity from Liquid Density Measurements. Application to Toluene. *Journal of Chemical & Engineering Data*, **2021**, 66, 3961-3976	2.8	4
99	Density, Viscosity, and Derivative Properties of Diethylene Glycol Monoethyl Ether Under High Pressure and Temperature. *Journal of Chemical & Engineering Data*, **2021**, 66, 1457-1465	2.8	4
98	Comparing C5Pe and Asphaltenes under Temperature and Pressure Reservoir Conditions Using an Acoustic Wave Sensor. *Energy & Fuels*, **2021**, 35, 6600-6614	4.1	1
97	Fluid-fluid and fluid-solid phase equilibria in carbon dioxide + waxy systems 1. CO + n-C. *Fluid Phase Equilibria*, **2021**, 538, 113023	2.5	4
96	Density, Speed of Sound, Compressibility, and Excess Properties of the Carbon Dioxide + n-Heptadecane Binary Mixture from 10 to 70 MPa. *Journal of Chemical & Engineering Data*, **2021**, 66, 3245-3257	2.8	2
95	Experimental determination and modelling of high-pressure phase behavior for the binary system CO2 + cyclooctane. *Journal of Supercritical Fluids*, **2021**, 174, 105249	4.2	2
94	Combined Investigations of Fluid Phase Equilibria and Fluid–Solid Phase Equilibria in Complex CO2–Crude Oil Systems under High Pressure. *Journal of Chemical & Engineering Data*, **2020**, 65, 3357-3372	2.8	8
93	Excess volume, isothermal compressibility, isentropic compressibility and speed of sound of carbon dioxide+n-heptane binary mixture under pressure up to 70 MPa. II. Molecular simulations. *Journal of Supercritical Fluids*, **2020**, 164, 104890	4.2	3
92	Density, Speed of Sound, Compressibility and Related Excess Properties of Methane + n-Heptane at T = 303.15 K and p = 10 to 70 MPa. *International Journal of Thermophysics*, **2020**, 41, 1	2.1	4
91	Thermophysical properties of simple molecular liquid mixtures: On the limitations of some force fields. *Journal of Molecular Liquids*, **2020**, 303, 112663	6	7
90	Understanding Asphaltene Fraction Behavior through Combined Quartz Crystal Resonator Sensor, FT-ICR MS, GPC ICP HR-MS, and AFM Characterization. Part I: Extrography Fractionations. *Energy & Fuels*, **2020**, 34, 13903-13915	4.1	14
89	Study of Liquid–Liquid and Liquid–Liquid–Vapor Equilibria for Crude Oil Mixtures with Carbon Dioxide and Methane Using Short-Wave Infrared Imaging: Experimental and Thermodynamic Modeling. *Energy & Fuels*, **2020**, 34, 14109-14123	4.1	5

88	Predicting the effect of pressure on biodiesel density at pressures of up to 200 MPa based on fatty acid alkyl ester profiles and density values at atmospheric pressure. *Fuel*, **2020**, 281, 118767	7.1	3
87	Density, Speed of Sound, Compressibility, and Excess Properties of Carbon Dioxide + n-Dodecane Binary Mixtures from 10 to 70 MPa. *Journal of Chemical & Engineering Data*, **2019**, 64, 3187-3204	2.8	5
86	Revisiting asphaltenes instability predictions by probing destabiliztion using a fully immersed quartz crystal resonator. *Fuel*, **2019**, 251, 523-533	7.1	8
85	Speed of sound, density and derivative properties of binary mixtures HFE-7500 + Diisopropyl ether under high pressure. *Journal of Chemical Thermodynamics*, **2019**, 128, 19-33	2.9	4
84	High-Pressure Viscosity Measurements for the Binary Mixture HFE-7500 + Diisopropyl Ether. *Journal of Chemical & Engineering Data*, **2019**, 64, 5332-5337	2.8	1
83	High pressure phase equilibria of carbon dioxide + n-alkanes mixtures: Experimental data and modeling. *Fluid Phase Equilibria*, **2018**, 463, 114-120	2.5	6
82	Measurement of speed of sound, density compressibility and viscosity in liquid methyl laurate and ethyl laurate up to 200 MPa by using acoustic wave sensors. *Journal of Chemical Thermodynamics*, **2018**, 120, 1-12	2.9	23
81	Computation of Liquid Isothermal Compressibility from Density Measurements: An Application to Toluene. *Journal of Chemical & Engineering Data*, **2018**, 63, 2162-2178	2.8	18
80	Excess volume, isothermal compressibility, isentropic compressibility and speed of sound of carbon dioxide + n-heptane binary mixture under pressure up to 70 MPa. I Experimental Measurements. *Journal of Supercritical Fluids*, **2018**, 140, 218-232	4.2	11
79	Thermal conductivity of heavy, even-carbon number n-alkanes (C22 to C32). *Fluid Phase Equilibria*, **2018**, 477, 78-86	2.5	14
78	Paraffin solubility curves of diesel fuels from thermodynamic model adjusted through experimental DSC thermograms. *Fuel*, **2018**, 230, 266-273	7.1	2
77	Direct adjustment of wax thermodynamic model parameter to micro Differential Scanning Calorimetry thermograms. *Fluid Phase Equilibria*, **2017**, 436, 20-29	2.5	7
76	Speed of sound and derivative properties of hydrofluoroether fluid HFE-7500 under high pressure. *Journal of Chemical Thermodynamics*, **2017**, 112, 52-58	2.9	7
75	Speed of Sound, Density, and Derivative Properties of Tris(2-ethylhexyl) Trimellitate under High Pressure. *Journal of Chemical & Engineering Data*, **2017**, 62, 1708-1715	2.8	12
74	In Pursuit of a High-Temperature, High-Pressure, High-Viscosity Standard: The Case of Tris(2-ethylhexyl) Trimellitate. *Journal of Chemical & Engineering Data*, **2017**, 62, 2884-2895	2.8	18
73	Measurement of Phase Changes in Live Crude Oil Using an Acoustic Wave Sensor: Asphaltene Instability Envelope. *Energy & Fuels*, **2017**, 31, 9255-9267	4.1	10
72	Paraffin solubility and calorimetric data calculation using Peng-Robinson EoS and modified UNIQUAC models. *Journal of Petroleum Science and Engineering*, **2017**, 156, 945-957	4.4	3
71	Determination of bubble point pressure of two live oils with injected nitrogen by quartz crystal resonator. *European Physical Journal: Special Topics*, **2017**, 226, 1065-1073	2.3	1

70	Speed of sound, density and derivative properties of diisopropyl ether under high pressure. *Fluid Phase Equilibria*, **2017**, 449, 148-155	2.5	9
69	Measurement of bubble point pressure in crude oils using an acoustic wave sensor. *Fluid Phase Equilibria*, **2016**, 427, 152-160	2.5	8
68	Viscosities of Fatty Acid Methyl and Ethyl Esters under High Pressure: Methyl Myristate and Ethyl Myristate. *Journal of Chemical & Engineering Data*, **2016**, 61, 398-403	2.8	25
67	Viscosities of Fatty Acid Methyl and Ethyl Esters under High Pressure: Methyl Caprate and Ethyl Caprate. *Journal of Chemical & Engineering Data*, **2015**, 60, 902-908	2.8	27
66	Viscosity measurements for squalane at high pressures to 350MPa from T=(293.15 to 363.15)K. *Journal of Chemical Thermodynamics*, **2014**, 69, 201-208	2.9	44
65	Reference Correlations for the Density and Viscosity of Squalane from 273 to 473 K at Pressures to 200 MPa. *Journal of Physical and Chemical Reference Data*, **2014**, 43, 013104	4.3	32
64	Speed of Sound, Density, and Derivative Properties of Methyl Oleate and Methyl Linoleate under High Pressure. *Journal of Chemical & Engineering Data*, **2013**, 58, 2345-2354	2.8	20
63	Speed of Sound, Density, and Derivative Properties of Ethyl Myristate, Methyl Myristate, and Methyl Palmitate under High Pressure. *Journal of Chemical & Engineering Data*, **2013**, 58, 1371-1377	2.8	57
62	Experimental Densities and Speeds of Sound of Substituted Phenols and Their Modeling with the Prigogine□Flory□Patterson Model. *Journal of Chemical & Engineering Data*, **2013**, 58, 2925-2931	2.8	23
61	High Pressure Density and Speed of Sound in Two Biodiesel Fuels. *Journal of Chemical & Engineering Data*, **2013**, 58, 3392-3398	2.8	22
60	Probing Asphaltene Flocculation by a Quartz Crystal Resonator. *Energy & Fuels*, **2013**, 27, 4639-4647	4.1	18
59	An atomic contribution model for the prediction of speed of sound. *Fluid Phase Equilibria*, **2013**, 358, 108-113	2.5	6
58	Study of Asphaltenes Aggregation in Toluene/n-Heptane/CO2Mixtures under High-Pressure Conditions. *Energy & Fuels*, **2013**, 27, 4598-4603	4.1	10
57	Gas Solubility Measurement in Heavy Oil and Extra Heavy Oil at Vapor Extraction (VAPEX) Conditions. *Energy & Fuels*, **2013**, 27, 2528-2535	4.1	17
56	Measurement and prediction of speeds of sound of fatty acid ethyl esters and ethylic biodiesels. *Fuel*, **2013**, 108, 840-845	7.1	32
55	Application of Wada□ Group Contribution Method to the Prediction of the Speed of Sound of Biodiesel. *Energy & Fuels*, **2013**, 27, 1365-1370	4.1	20
54	Measurement and prediction of the speed of sound of biodiesel fuels. *Fuel*, **2013**, 103, 1018-1022	7.1	41
53	Novel data and a group contribution method for the prediction of the speed of sound and isentropic compressibility of pure fatty acids methyl and ethyl esters. *Fuel*, **2013**, 105, 466-470	7.1	27

52	High pressure thermophysical characterization of fuel used for testing and calibrating diesel injection systems. *Fuel*, **2012**, 98, 288-294	7.1	34
51	Speed of Sound, Density, and Derivative Properties of Fatty Acid Methyl and Ethyl Esters under High Pressure: Methyl Caprate and Ethyl Caprate. *Journal of Chemical & Engineering Data*, **2012**, 57, 2667-2676	2.8	52
50	High pressure phase equilibria in methane + waxy systems. 3. Methane + a synthetic distribution of paraffin ranging from n-C13 to n-C22. *Fluid Phase Equilibria*, **2012**, 313, 32-37	2.5	8
49	Viscosity measurements of liquids under pressure by using the quartz crystal resonators. *Review of Scientific Instruments*, **2011**, 82, 095114	1.7	15
48	A phase comparison technique for sound velocity measurement in strongly dissipative liquids under pressure. *Journal of the Acoustical Society of America*, **2010**, 128, 672-8	2.2	6
47	Characterization of Libyan Waxy Crude Oils. *Energy & Fuels*, **2010**, 24, 3101-3107	4.1	31
46	Electrical characterization of a quartz crystal in high pressure CO2 by impedance analysis. *High Pressure Research*, **2010**, 30, 72-77	1.6	1
45	High pressure phase equilibria in methane+waxy systems. 2. Methane+waxy ternary mixture. *Fluid Phase Equilibria*, **2010**, 297, 149-153	2.5	17
44	Joule□Thomson Inversion in Vapor□Liquid□Solid Solution Systems. *International Journal of Thermophysics*, **2009**, 30, 1130-1143	2.1	4
43	High pressure phase behavior of carbon dioxide in 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquids. *Journal of Supercritical Fluids*, **2009**, 48, 99-107	4.2	121
42	Measurement under high pressure of the nonlinearity parameter B/A in glycerol at various temperatures. *Ultrasonics*, **2009**, 49, 668-75	3.5	17
41	Comparison between Experimental and Theoretical Estimations of the Thermal Expansion, Concentration Expansion Coefficients, and Viscosity for Binary Mixtures under Pressures up to 20 MPa□ *Journal of Chemical & Engineering Data*, **2009**, 54, 1710-1715	2.8	12
40	Measurements under high pressure of ultrasonic wave velocity in glycerol **2009**,		1
39	Calculation of Joule□Thomson Inversion Curves for Multiphase Systems with Waxy Solid-phase Precipitation. *Energy & Fuels*, **2008**, 22, 4012-4018	4.1	4
38	Pseudocomponent Delumping for Multiphase Systems with Waxy Solid Phase Precipitation□ *Energy & Fuels*, **2008**, 22, 775-783	4.1	6
37	Solid□Liquid Equilibria under High Pressure of Nine Pure n-Alkylbenzenes. *Journal of Chemical & Engineering Data*, **2008**, 53, 233-237	2.8	7
36	High-pressure phase behaviour of the binary system {CO2 + cis-decalin} from (292.75 to 373.75) K. *Journal of Chemical Thermodynamics*, **2008**, 40, 1358-1363	2.9	14
35	Phase equilibria measurements of CO2+methyl cyclopentane and CO2+isopropyl cyclohexane binary mixtures at elevated pressures. *Journal of Supercritical Fluids*, **2008**, 44, 155-163	4.2	35

34	Solid–liquid Equilibria under High Pressure of Eight Pure n-Alkylcyclohexanes. *Journal of Chemical & Engineering Data*, **2007**, 52, 1250-1254	2.8	7
33	Bubble and Dew Points of Carbon Dioxide + a Five-Component Synthetic Mixture: Experimental Data and Modeling with the PPR78 Model. *Journal of Chemical & Engineering Data*, **2007**, 52, 1851-1855	2.8	23
32	Accurate Global Thermophysical Characterization of Hydrofluoroethers through a Statistical Associating Fluid Theory Variable Range Approach, Based on New Experimental High-Pressure Volumetric and Acoustic Data. *Industrial & Engineering Chemistry Research*, **2007**, 46, 6998-7007	3.9	15
31	CO2/water interfacial tensions under pressure and temperature conditions of CO2 geological storage. *Energy Conversion and Management*, **2007**, 48, 736-744	10.6	287
30	High pressure phase equilibria in methane+waxy systems. *Fluid Phase Equilibria*, **2007**, 255, 193-199	2.5	39
29	A comprehensive description of chemical association effects on second derivative properties of alcohols through a SAFT-VR approach. *Journal of Physical Chemistry B*, **2007**, 111, 3447-61	3.4	76
28	Study of Pressure and Temperature Effects on Asphaltene Stability in Presence of CO2. *Energy & Fuels*, **2006**, 20, 1584-1590	4.1	76
27	Simultaneous estimation of phase behavior and second-derivative properties using the statistical associating fluid theory with variable range approach. *Journal of Chemical Physics*, **2006**, 124, 024509	3.9	145
26	Optical fiber extrinsic refractometer to measure RI of samples in a high pressure and temperature systems: Application to wax and asphaltene precipitation measurements. *Fuel*, **2006**, 85, 2220-2228	7.1	14
25	Measurements of the Speed of Sound for Mixtures of Methane + Butane with a Particular Focus on the Critical State. *Journal of Chemical & Engineering Data*, **2005**, 50, 673-676	2.8	7
24	The Limitations of the Cloud Point Measurement Techniques and the Influence of the Oil Composition on Its Detection. *Petroleum Science and Technology*, **2005**, 23, 1113-1128	1.4	71
23	Modeling high-pressure wax formation in petroleum fluids. *AICHE Journal*, **2005**, 51, 2089-2097	3.6	20
22	Paraffin crystallization in synthetic mixtures: Predictive local composition models revisited. *Fluid Phase Equilibria*, **2005**, 233, 28-33	2.5	16
21	Modelling Phase Equilibria in Systems with Organic Solid Solutions. *Computer Aided Chemical Engineering*, **2004**, 229-249	0.6	4
20	Solid deposition as a function of temperature in the nC10 + (nC24–C25–C26) system. *Fluid Phase Equilibria*, **2004**, 224, 237-244	2.5	33
19	Speed of Sound, Density, and Compressibility of Alkyl-Benzenes as a Function of Pressure and Temperature: Heptadecylbenzene and Octadecylbenzene. *Journal of Chemical & Engineering Data*, **2004**, 49, 983-987	2.8	2
18	Speed of Sound and Some Thermodynamic Properties of Liquid Methylcyclopentane and Butylcyclohexane in a Wide Range of Pressure. *International Journal of Thermophysics*, **2003**, 24, 639-649	2.1	5
17	Prediction of solid–liquid equilibria in mixed electrolyte aqueous solution by the modified mean spherical approximation. *Fluid Phase Equilibria*, **2003**, 206, 205-214	2.5	9

16	The pressure effect on the wax formation in diesel fuel?. *Fuel*, **2003**, 82, 595-601	7.1	36
15	Evidence for the Aging of Wax Deposits in Crude Oils by Ostwald Ripening. *Petroleum Science and Technology*, **2003**, 21, 381-391	1.4	43
14	Measurement of the acoustic nonlinearity parameter in liquid alkanes under pressure and comparison with the Lee□□Kesler correlation. *High Temperatures - High Pressures*, **2003**, 35/36, 109-116	1.3	5
13	Pressure Dependence of the Thermophysical Properties of n-Pentadecane and n-Heptadecane. *International Journal of Thermophysics*, **2002**, 23, 697-708	2.1	40
12	Speed of Sound, Density, and Compressibility of Alkylbenzenes as a Function of Pressure and Temperature: Tridecylbenzene and Pentadecylbenzene. *Journal of Chemical & Engineering Data*, **2002**, 47, 1532-1536	2.8	8
11	Speed of sound, density, and compressibilities of liquid eicosane and docosane at various temperatures and pressures. *High Temperatures - High Pressures*, **2001**, 33, 371-378	1.3	18
10	Measurement and prediction of temperature and pressure effect on wax content in a partially frozen paraffinic system. *Fluid Phase Equilibria*, **2001**, 187-188, 71-82	2.5	40
9	Low-Pressure Modeling of Wax Formation in Crude Oils. *Energy & Fuels*, **2001**, 15, 1454-1460	4.1	57
8	Solid□Liquid□Vapor Phase Boundary of a North Sea Waxy Crude: Measurement and Modeling. *Energy & Fuels*, **2001**, 15, 730-735	4.1	57
7	Volumetric Behavior of Decane + Carbon Dioxide at High Pressures. Measurement and Calculation. *Journal of Chemical & Engineering Data*, **2001**, 46, 1136-1139	2.8	39
6	Prediction of solid□fluid phase diagrams of light gases□heavy paraffin systems up to 200 MPa using an equation of state□□E model. *Fluid Phase Equilibria*, **2000**, 167, 145-159	2.5	61
5	Ultrasonic velocity of liquid tridecane and tetradecane as a function of temperature and pressure. *High Temperatures - High Pressures*, **2000**, 32, 83-87	1.3	18
4	Isentropic thermophysical properties of pure n-paraffins as a function of temperature and chain length. *High Temperatures - High Pressures*, **2000**, 32, 305-310	1.3	13
3	Measurement and calculation of solid-liquid and liquid-vapour equilibria in a ternary mixture. *High Temperatures - High Pressures*, **1997**, 29, 337-344	1.3	3
2	A simple correlation to evaluate binary interaction parameters of the Peng-Robinson equation of state: binary light hydrocarbon systems. *Fluid Phase Equilibria*, **1992**, 74, 85-93	2.5	69
1	Phase Behavior Investigation of a Live Presalt Crude Oil from Short-Wave Infrared Observation, Acoustic Wave Sensing, and Equation of State Modeling. *Energy & Fuels*,	4.1	1