

# Jean-Luc Daridon

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2644502/jean-luc-daridon-publications-by-citations.pdf>

**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	CO <sub>2</sub> /water interfacial tensions under pressure and temperature conditions of CO <sub>2</sub> geological storage. <i>Energy Conversion and Management</i> , <b>2007</b> , 48, 736-744	10.6	287
104	Simultaneous estimation of phase behavior and second-derivative properties using the statistical associating fluid theory with variable range approach. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 024509	3.9	145
103	High pressure phase behavior of carbon dioxide in 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquids. <i>Journal of Supercritical Fluids</i> , <b>2009</b> , 48, 99-107	4.2	121
102	A comprehensive description of chemical association effects on second derivative properties of alcohols through a SAFT-VR approach. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 3447-61	3.4	76
101	Study of Pressure and Temperature Effects on Asphaltene Stability in Presence of CO <sub>2</sub> . <i>Energy &amp; Fuels</i> , <b>2006</b> , 20, 1584-1590	4.1	76
100	The Limitations of the Cloud Point Measurement Techniques and the Influence of the Oil Composition on Its Detection. <i>Petroleum Science and Technology</i> , <b>2005</b> , 23, 1113-1128	1.4	71
99	A simple correlation to evaluate binary interaction parameters of the Peng-Robinson equation of state: binary light hydrocarbon systems. <i>Fluid Phase Equilibria</i> , <b>1992</b> , 74, 85-93	2.5	69
98	Prediction of solid-liquid phase diagrams of light gases-heavy paraffin systems up to 200 MPa using an equation of state-E model. <i>Fluid Phase Equilibria</i> , <b>2000</b> , 167, 145-159	2.5	61
97	Speed of Sound, Density, and Derivative Properties of Ethyl Myristate, Methyl Myristate, and Methyl Palmitate under High Pressure. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 1371-1377	2.8	57
96	Low-Pressure Modeling of Wax Formation in Crude Oils. <i>Energy &amp; Fuels</i> , <b>2001</b> , 15, 1454-1460	4.1	57
95	Solid-liquid-vapor Phase Boundary of a North Sea Waxy Crude: Measurement and Modeling. <i>Energy &amp; Fuels</i> , <b>2001</b> , 15, 730-735	4.1	57
94	Speed of Sound, Density, and Derivative Properties of Fatty Acid Methyl and Ethyl Esters under High Pressure: Methyl Caprate and Ethyl Caprate. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 2667-2676	2.8	52
93	Viscosity measurements for squalane at high pressures to 350MPa from T=(293.15 to 363.15)K. <i>Journal of Chemical Thermodynamics</i> , <b>2014</b> , 69, 201-208	2.9	44
92	Evidence for the Aging of Wax Deposits in Crude Oils by Ostwald Ripening. <i>Petroleum Science and Technology</i> , <b>2003</b> , 21, 381-391	1.4	43
91	Measurement and prediction of the speed of sound of biodiesel fuels. <i>Fuel</i> , <b>2013</b> , 103, 1018-1022	7.1	41
90	Pressure Dependence of the Thermophysical Properties of n-Pentadecane and n-Heptadecane. <i>International Journal of Thermophysics</i> , <b>2002</b> , 23, 697-708	2.1	40
89	Measurement and prediction of temperature and pressure effect on wax content in a partially frozen paraffinic system. <i>Fluid Phase Equilibria</i> , <b>2001</b> , 187-188, 71-82	2.5	40

88	High pressure phase equilibria in methane+waxy systems. <i>Fluid Phase Equilibria</i> , <b>2007</b> , 255, 193-199	2.5	39
87	Volumetric Behavior of Decane + Carbon Dioxide at High Pressures. Measurement and Calculation. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2001</b> , 46, 1136-1139	2.8	39
86	The pressure effect on the wax formation in diesel fuel?. <i>Fuel</i> , <b>2003</b> , 82, 595-601	7.1	36
85	Phase equilibria measurements of CO <sub>2</sub> +methyl cyclopentane and CO <sub>2</sub> +isopropyl cyclohexane binary mixtures at elevated pressures. <i>Journal of Supercritical Fluids</i> , <b>2008</b> , 44, 155-163	4.2	35
84	High pressure thermophysical characterization of fuel used for testing and calibrating diesel injection systems. <i>Fuel</i> , <b>2012</b> , 98, 288-294	7.1	34
83	Solid deposition as a function of temperature in the nC <sub>10</sub> + (nC <sub>24</sub> –C <sub>25</sub> –C <sub>26</sub> ) system. <i>Fluid Phase Equilibria</i> , <b>2004</b> , 224, 237-244	2.5	33
82	Reference Correlations for the Density and Viscosity of Squalane from 273 to 473 K at Pressures to 200 MPa. <i>Journal of Physical and Chemical Reference Data</i> , <b>2014</b> , 43, 013104	4.3	32
81	Measurement and prediction of speeds of sound of fatty acid ethyl esters and ethylic biodiesels. <i>Fuel</i> , <b>2013</b> , 108, 840-845	7.1	32
80	Characterization of Libyan Waxy Crude Oils. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 3101-3107	4.1	31
79	Viscosities of Fatty Acid Methyl and Ethyl Esters under High Pressure: Methyl Caprate and Ethyl Caprate. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2015</b> , 60, 902-908	2.8	27
78	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. <i>Fuel</i> , <b>2013</b> , 105, 466-470	7.1	27
77	Viscosities of Fatty Acid Methyl and Ethyl Esters under High Pressure: Methyl Myristate and Ethyl Myristate. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 398-403	2.8	25
76	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. <i>Journal of Chemical Thermodynamics</i> , <b>2018</b> , 120, 1-12	2.9	23
75	Experimental Densities and Speeds of Sound of Substituted Phenols and Their Modeling with the Prigogine–Patterson Model. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 2925-2931	2.8	23
74	Bubble and Dew Points of Carbon Dioxide + a Five-Component Synthetic Mixture: Experimental Data and Modeling with the PPR78 Model. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2007</b> , 52, 1851-1855	2.8	23
73	High Pressure Density and Speed of Sound in Two Biodiesel Fuels. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 3392-3398	2.8	22
72	Speed of Sound, Density, and Derivative Properties of Methyl Oleate and Methyl Linoleate under High Pressure. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 2345-2354	2.8	20
71	Application of Wada Group Contribution Method to the Prediction of the Speed of Sound of Biodiesel. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 1365-1370	4.1	20

70	Modeling high-pressure wax formation in petroleum fluids. <i>AIChE Journal</i> , <b>2005</b> , 51, 2089-2097	3.6	20
69	In Pursuit of a High-Temperature, High-Pressure, High-Viscosity Standard: The Case of Tris(2-ethylhexyl) Trimellitate. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2017</b> , 62, 2884-2895	2.8	18
68	Computation of Liquid Isothermal Compressibility from Density Measurements: An Application to Toluene. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2018</b> , 63, 2162-2178	2.8	18
67	Probing Asphaltene Flocculation by a Quartz Crystal Resonator. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 4639-4647	4.1	18
66	Speed of sound, density, and compressibilities of liquid eicosane and docosane at various temperatures and pressures. <i>High Temperatures - High Pressures</i> , <b>2001</b> , 33, 371-378	1.3	18
65	Ultrasonic velocity of liquid tridecane and tetradecane as a function of temperature and pressure. <i>High Temperatures - High Pressures</i> , <b>2000</b> , 32, 83-87	1.3	18
64	Gas Solubility Measurement in Heavy Oil and Extra Heavy Oil at Vapor Extraction (VAPEX) Conditions. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 2528-2535	4.1	17
63	Measurement under high pressure of the nonlinearity parameter B/A in glycerol at various temperatures. <i>Ultrasonics</i> , <b>2009</b> , 49, 668-75	3.5	17
62	High pressure phase equilibria in methane+waxy systems. 2. Methane+waxy ternary mixture. <i>Fluid Phase Equilibria</i> , <b>2010</b> , 297, 149-153	2.5	17
61	Paraffin crystallization in synthetic mixtures: Predictive local composition models revisited. <i>Fluid Phase Equilibria</i> , <b>2005</b> , 233, 28-33	2.5	16
60	Viscosity measurements of liquids under pressure by using the quartz crystal resonators. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 095114	1.7	15
59	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. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 6998-7007	3.9	15
58	High-pressure phase behaviour of the binary system {CO <sub>2</sub> + cis-decalin} from (292.75 to 373.75) K. <i>Journal of Chemical Thermodynamics</i> , <b>2008</b> , 40, 1358-1363	2.9	14
57	Optical fiber extrinsic refractometer to measure RI of samples in a high pressure and temperature systems: Application to wax and asphaltene precipitation measurements. <i>Fuel</i> , <b>2006</b> , 85, 2220-2228	7.1	14
56	Understanding Asphaltene Fraction Behavior through Combined Quartz Crystal Resonator Sensor, FT-ICR MS, GPC ICP HR-MS, and AFM Characterization. Part I: Extrography Fractionations. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 13903-13915	4.1	14
55	Thermal conductivity of heavy, even-carbon number n-alkanes (C <sub>22</sub> to C <sub>32</sub> ). <i>Fluid Phase Equilibria</i> , <b>2018</b> , 477, 78-86	2.5	14
54	Isentropic thermophysical properties of pure n-paraffins as a function of temperature and chain length. <i>High Temperatures - High Pressures</i> , <b>2000</b> , 32, 305-310	1.3	13
53	Speed of Sound, Density, and Derivative Properties of Tris(2-ethylhexyl) Trimellitate under High Pressure. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2017</b> , 62, 1708-1715	2.8	12

52	Comparison between Experimental and Theoretical Estimations of the Thermal Expansion, Concentration Expansion Coefficients, and Viscosity for Binary Mixtures under Pressures up to 20 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2009</b> , 54, 1710-1715	2.8	12
51	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. <i>Journal of Supercritical Fluids</i> , <b>2018</b> , 140, 218-232	4.2	11
50	Study of Asphaltenes Aggregation in Toluene/n-Heptane/CO <sub>2</sub> Mixtures under High-Pressure Conditions. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 4598-4603	4.1	10
49	Measurement of Phase Changes in Live Crude Oil Using an Acoustic Wave Sensor: Asphaltene Instability Envelope. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 9255-9267	4.1	10
48	Speed of sound, density and derivative properties of diisopropyl ether under high pressure. <i>Fluid Phase Equilibria</i> , <b>2017</b> , 449, 148-155	2.5	9
47	Prediction of solid-liquid equilibria in mixed electrolyte aqueous solution by the modified mean spherical approximation. <i>Fluid Phase Equilibria</i> , <b>2003</b> , 206, 205-214	2.5	9
46	Revisiting asphaltenes instability predictions by probing destabilization using a fully immersed quartz crystal resonator. <i>Fuel</i> , <b>2019</b> , 251, 523-533	7.1	8
45	Combined Investigations of Fluid Phase Equilibria and Fluid-Solid Phase Equilibria in Complex CO <sub>2</sub> -Crude Oil Systems under High Pressure. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 3357-3372	2.8	8
44	Measurement of bubble point pressure in crude oils using an acoustic wave sensor. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 427, 152-160	2.5	8
43	High pressure phase equilibria in methane + waxy systems. 3. Methane + a synthetic distribution of paraffin ranging from n-C <sub>13</sub> to n-C <sub>22</sub> . <i>Fluid Phase Equilibria</i> , <b>2012</b> , 313, 32-37	2.5	8
42	Speed of Sound, Density, and Compressibility of Alkylbenzenes as a Function of Pressure and Temperature: Tridecylbenzene and Pentadecylbenzene. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2002</b> , 47, 1532-1536	2.8	8
41	Direct adjustment of wax thermodynamic model parameter to micro Differential Scanning Calorimetry thermograms. <i>Fluid Phase Equilibria</i> , <b>2017</b> , 436, 20-29	2.5	7
40	Speed of sound and derivative properties of hydrofluoroether fluid HFE-7500 under high pressure. <i>Journal of Chemical Thermodynamics</i> , <b>2017</b> , 112, 52-58	2.9	7
39	Thermophysical properties of simple molecular liquid mixtures: On the limitations of some force fields. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 303, 112663	6	7
38	Solid-Liquid Equilibria under High Pressure of Nine Pure n-Alkylbenzenes. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2008</b> , 53, 233-237	2.8	7
37	Solid-Liquid Equilibria under High Pressure of Eight Pure n-Alkylcyclohexanes. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2007</b> , 52, 1250-1254	2.8	7
36	Measurements of the Speed of Sound for Mixtures of Methane + Butane with a Particular Focus on the Critical State. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2005</b> , 50, 673-676	2.8	7
35	High pressure phase equilibria of carbon dioxide-n-alkanes mixtures: Experimental data and modeling. <i>Fluid Phase Equilibria</i> , <b>2018</b> , 463, 114-120	2.5	6

34	An atomic contribution model for the prediction of speed of sound. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 358, 108-113	2.5	6
33	A phase comparison technique for sound velocity measurement in strongly dissipative liquids under pressure. <i>Journal of the Acoustical Society of America</i> , <b>2010</b> , 128, 672-8	2.2	6
32	Pseudocomponent Delumping for Multiphase Systems with Waxy Solid Phase Precipitation□ <i>Energy &amp; Fuels</i> , <b>2008</b> , 22, 775-783	4.1	6
31	Density, Speed of Sound, Compressibility, and Excess Properties of Carbon Dioxide + n-Dodecane Binary Mixtures from 10 to 70 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 3187-3204	2.8	5
30	Speed of Sound and Some Thermodynamic Properties of Liquid Methylcyclopentane and Butylcyclohexane in a Wide Range of Pressure. <i>International Journal of Thermophysics</i> , <b>2003</b> , 24, 639-649 <sup>2.1</sup>		5
29	Measurement of the acoustic nonlinearity parameter in liquid alkanes under pressure and comparison with the Lee□Kesler correlation. <i>High Temperatures - High Pressures</i> , <b>2003</b> , 35/36, 109-116	1.3	5
28	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. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 14109-14123	4.1	5
27	Density, Speed of Sound, Compressibility and Related Excess Properties of Methane + n-Heptane at T = 303.15 K and p = 10 to 70 MPa. <i>International Journal of Thermophysics</i> , <b>2020</b> , 41, 1	2.1	4
26	Speed of sound, density and derivative properties of binary mixtures HFE-7500 + Diisopropyl ether under high pressure. <i>Journal of Chemical Thermodynamics</i> , <b>2019</b> , 128, 19-33	2.9	4
25	Joule□Thomson Inversion in Vapor□Liquid□Solid Solution Systems. <i>International Journal of Thermophysics</i> , <b>2009</b> , 30, 1130-1143	2.1	4
24	Calculation of Joule□Thomson Inversion Curves for Multiphase Systems with Waxy Solid-phase Precipitation. <i>Energy &amp; Fuels</i> , <b>2008</b> , 22, 4012-4018	4.1	4
23	Modelling Phase Equilibria in Systems with Organic Solid Solutions. <i>Computer Aided Chemical Engineering</i> , <b>2004</b> , 229-249	0.6	4
22	Computation of Isobaric Thermal Expansivity from Liquid Density Measurements. Application to Toluene. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2021</b> , 66, 3961-3976	2.8	4
21	Density, Viscosity, and Derivative Properties of Diethylene Glycol Monoethyl Ether Under High Pressure and Temperature. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2021</b> , 66, 1457-1465	2.8	4
20	Fluid-fluid and fluid-solid phase equilibria in carbon dioxide□□waxy systems 1. CO□□n-C. <i>Fluid Phase Equilibria</i> , <b>2021</b> , 538, 113023	2.5	4
19	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. <i>Journal of Supercritical Fluids</i> , <b>2020</b> , 164, 104890	4.2	3
18	Paraffin solubility and calorimetric data calculation using Peng-Robinson EoS and modified UNIQUAC models. <i>Journal of Petroleum Science and Engineering</i> , <b>2017</b> , 156, 945-957	4.4	3
17	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. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 17551-17565	4.1	3

16	Measurement and calculation of solid-liquid and liquid-vapour equilibria in a ternary mixture. <i>High Temperatures - High Pressures</i> , <b>1997</b> , 29, 337-344	1.3	3
15	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. <i>Fuel</i> , <b>2020</b> , 281, 118767	7.1	3
14	Speed of Sound, Density, and Compressibility of Alkyl-Benzenes as a Function of Pressure and Temperature: Heptadecylbenzene and Octadecylbenzene. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2004</b> , 49, 983-987	2.8	2
13	Paraffin solubility curves of diesel fuels from thermodynamic model adjusted through experimental DSC thermograms. <i>Fuel</i> , <b>2018</b> , 230, 266-273	7.1	2
12	Density, Speed of Sound, Compressibility, and Excess Properties of the Carbon Dioxide + n-Heptadecane Binary Mixture from 10 to 70 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2021</b> , 66, 3245-3257	2.8	2
11	Experimental determination and modelling of high-pressure phase behavior for the binary system CO <sub>2</sub> + cyclooctane. <i>Journal of Supercritical Fluids</i> , <b>2021</b> , 174, 105249	4.2	2
10	Fluid phase equilibria for the CO <sub>2</sub> + 2,3-dimethylbutane binary system from 291.9 K to 373.1 K. <i>Journal of Supercritical Fluids</i> , <b>2022</b> , 179, 105387	4.2	2
9	High-Pressure Viscosity Measurements for the Binary Mixture HFE-7500 + Diisopropyl Ether. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 5332-5337	2.8	1
8	Determination of bubble point pressure of two live oils with injected nitrogen by quartz crystal resonator. <i>European Physical Journal: Special Topics</i> , <b>2017</b> , 226, 1065-1073	2.3	1
7	Electrical characterization of a quartz crystal in high pressure CO <sub>2</sub> by impedance analysis. <i>High Pressure Research</i> , <b>2010</b> , 30, 72-77	1.6	1
6	Measurements under high pressure of ultrasonic wave velocity in glycerol <b>2009</b> ,		1
5	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. <i>International Journal of Thermophysics</i> , <b>2022</b> , 43, 1	2.1	1
4	Phase Behavior Investigation of a Live Presalt Crude Oil from Short-Wave Infrared Observation, Acoustic Wave Sensing, and Equation of State Modeling. <i>Energy &amp; Fuels</i> ,	4.1	1
3	Comparing C5Pe and Asphaltenes under Temperature and Pressure Reservoir Conditions Using an Acoustic Wave Sensor. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 6600-6614	4.1	1
2	Predicting and Correlating Speed of Sound in Long-Chain Alkanes at High Pressure. <i>International Journal of Thermophysics</i> , <b>2022</b> , 43, 1	2.1	0
1	High-Pressure Phase Equilibria Measurements of the Carbon Dioxide + Cycloheptane Binary System. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2022</b> , 67, 176-181	2.8	0