

# Valdemar Lacerda Jr

## 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.

102  
papers

1,219  
citations

20  
h-index

28  
g-index

125  
ext. papers

1,463  
ext. citations

3.1  
avg, IF

4.3  
L-index

#	Paper	IF	Citations
102	Asphaltenes subfractions characterization and calculation of their solubility parameter using ESI(-) FT-ICR MS: Part II. <i>Fuel</i> , <b>2022</b> , 312, 122864	7.1	3
101	Isolation of tetrameric acids from naphthenates deposits and characterization by high-resolution analytical techniques. <i>Fuel</i> , <b>2022</b> , 308, 122065	7.1	2
100	Environmental impacts related to drilling fluid waste and treatment methods: A critical review. <i>Fuel</i> , <b>2022</b> , 310, 122301	7.1	2
99	Characterization of naphthenic acids in crude oil samples [A literature review]. <i>Fuel</i> , <b>2022</b> , 319, 123775	7.1	3
98	Portable Raman spectroscopy applied to the study of drugs of abuse.. <i>Journal of Forensic Sciences</i> , <b>2022</b> ,	1.8	1
97	Characterization of Asphalt Aging by Analytical Techniques: A Review on Progress and Perspectives. <i>Energy &amp; Fuels</i> , <b>2022</b> , 36, 5531-5549	4.1	0
96	Fast pyrolysis as a tool for obtaining levoglucosan after pretreatment of biomass with niobium catalysts. <i>Waste Management</i> , <b>2021</b> , 126, 274-282	8.6	4
95	Thymol as an Interesting Building Block for Promising Fungicides against. <i>Journal of Agricultural and Food Chemistry</i> , <b>2021</b> , 69, 6958-6967	5.7	0
94	Semisynthetic Triazoles as an Approach in the Discovery of Novel Lead Compounds. <i>Current Organic Chemistry</i> , <b>2021</b> , 25, 1097-1179	1.7	
93	Mild conditions in the transesterification reaction of babassu oil and purified fusel oil. <i>Chemical Engineering Communications</i> , <b>2021</b> , 208, 432-440	2.2	1
92	Flavonoid Derivatives Targeting BCR-ABL Kinase: Semisynthesis, Molecular Dynamic Simulations and Enzymatic Inhibition. <i>Current Topics in Medicinal Chemistry</i> , <b>2021</b> , 21, 1999-2017	3	1
91	Study of Thermal Aging of Model Compounds Present in Asphalt Cement by GC/MS, ESI-MS, NMR, and FTIR. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 14553-14568	4.1	1
90	Use of portable Raman spectroscopy in the quality control of extra virgin olive oil and adulterated compound oils. <i>Vibrational Spectroscopy</i> , <b>2021</b> , 116, 103299	2.1	3
89	Exploring the chemical profile of designer drugs by ESI(+) and PSI(+) mass spectrometry-An approach on the fragmentation mechanisms and chemometric analysis. <i>Journal of Mass Spectrometry</i> , <b>2020</b> , 55, e4596	2.2	3
88	Fiber spray ionization mass spectrometry in forensic chemistry: A screening of drugs of abuse and direct determination of cocaine in urine. <i>Rapid Communications in Mass Spectrometry</i> , <b>2020</b> , 34 Suppl 3, e8747	2.2	5
87	Study of the Influence of Resins on the Asphaltene Aggregates by 1H DOSY NMR. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 5679-5688	4.1	8
86	Synthesis of Eugenol Derivatives and Evaluation of their Antifungal Activity Against f. sp.. <i>Current Pharmaceutical Design</i> , <b>2020</b> , 26, 1532-1542	3.3	2

85	Synthetic Methods Applied in the Preparation of Coumarin-based Compounds. <i>Current Organic Chemistry</i> , <b>2020</b> , 23, 2722-2750	1.7	7
84	Fungal Biotransformation: An Efficient Approach for Stereoselective Chemical Reactions. <i>Current Organic Chemistry</i> , <b>2020</b> , 24, 2902-2953	1.7	2
83	Synthesis of Coumarin Derivatives as Versatile Scaffolds for GSK-3 $\beta$ Enzyme Inhibition. <i>Current Topics in Medicinal Chemistry</i> , <b>2020</b> , 20, 153-160	3	2
82	Novel [6]-gingerol Triazole Derivatives and their Antiproliferative Potential against Tumor Cells. <i>Current Topics in Medicinal Chemistry</i> , <b>2020</b> , 20, 161-169	3	3
81	FTIR, 1H and 13C NMR data fusion to predict crude oils properties. <i>Fuel</i> , <b>2020</b> , 263, 116721	7.1	16
80	Restricted access macroporous magnetic polyaniline for determination of coumarins in rat plasma. <i>Microchemical Journal</i> , <b>2020</b> , 153, 104490	4.8	2
79	Analysis of Robusta coffee cultivated in agroforestry systems (AFS) by ESI-FT-ICR MS and portable NIR associated with sensory analysis. <i>Journal of Food Composition and Analysis</i> , <b>2020</b> , 94, 103637	4.1	2
78	Quantification and classification of vegetable oils in extra virgin olive oil samples using a portable near-infrared spectrometer associated with chemometrics. <i>Microchemical Journal</i> , <b>2020</b> , 159, 105544	4.8	22
77	Lactose quantification in bovine milk by nuclear magnetic resonance without deuterated solvent (No-D qNMR). <i>Analytical Methods</i> , <b>2020</b> , 12, 4892-4898	3.2	2
76	Characterization of organosulfur compounds in asphalt cement samples by ESI(+)-FT-ICR MS and 13C NMR spectroscopy. <i>Fuel</i> , <b>2019</b> , 256, 115923	7.1	19
75	Fourier transform mass spectrometry applied to Forensic Chemistry <b>2019</b> , 469-508		1
74	The use of conductive polymers as a substrate for paper spray ionization mass spectrometry. <i>Analytical Methods</i> , <b>2019</b> , 11, 3388-3400	3.2	6
73	Determination of physicochemical properties of petroleum using 1H NMR spectroscopy combined with multivariate calibration. <i>Fuel</i> , <b>2019</b> , 253, 320-326	7.1	10
72	Quantification of capsaicinoids from chili peppers using 1H NMR without deuterated solvent. <i>Analytical Methods</i> , <b>2019</b> , 11, 1939-1950	3.2	6
71	NBOMe compounds: An overview about analytical methodologies aiming their determination in biological matrices. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2019</b> , 114, 260-277	14.6	9
70	Unequivocal structural assignments of three cardanol derivatives: An experimental and theoretical approach. <i>Journal of Molecular Structure</i> , <b>2019</b> , 1175, 357-366	3.4	2
69	Droplet Size Distribution in Water-Crude Oil Emulsions by Low-Field NMR. <i>Journal of the Brazilian Chemical Society</i> , <b>2019</b> ,	1.5	4
68	Using NMR to Study the Process of Rigid Polyurethane Depolymerization. <i>Orbital</i> , <b>2019</b> , 11,	1.4	2

67	Cytotoxic and Genotoxic Activities of Alkaloids from the Bulbs of <i>Griffinia gardneriana</i> and <i>Habranthus itaobinus</i> (Amaryllidaceae). <i>Anti-Cancer Agents in Medicinal Chemistry</i> , <b>2019</b> , 19, 707-717	2.2	5
66	CHAPTER 9: Paper Spray Ionization Mass Spectrometry in Forensic Chemistry. <i>RSC Detection Science</i> , <b>2019</b> , 198-243	0.4	
65	Multivariate data analysis applied in the evaluation of crude oil blends. <i>Fuel</i> , <b>2019</b> , 239, 421-428	7.1	7
64	Determination of physicochemical properties of biodiesel and blends using low-field NMR and multivariate calibration. <i>Fuel</i> , <b>2019</b> , 237, 745-752	7.1	14
63	Rheological study of the behavior of water-in-oil emulsions of heavy oils. <i>Journal of Petroleum Science and Engineering</i> , <b>2019</b> , 173, 1323-1331	4.4	8
62	Oil recovery from water-based drilling fluid waste. <i>Fuel</i> , <b>2019</b> , 237, 335-343	7.1	11
61	Toxicity of thymol, carvacrol and their respective phenoxyacetic acids in <i>Lactuca sativa</i> and <i>Sorghum bicolor</i> . <i>Industrial Crops and Products</i> , <b>2018</b> , 114, 59-67	5.9	26
60	Quantification of cocaine and its adulterants by nuclear magnetic resonance spectroscopy without deuterated solvents (No-D qNMR). <i>Analytical Methods</i> , <b>2018</b> , 10, 1685-1694	3.2	10
59	Hetero-Diels-Alder Reactions in the Synthesis of Biologically Active Nitrogen Compounds: A Review. <i>Current Organic Synthesis</i> , <b>2018</b> , 15, 84-104	1.9	10
58	Portable near infrared spectroscopy applied to quality control of Brazilian coffee. <i>Talanta</i> , <b>2018</b> , 176, 59-68	6.2	74
57	APCI(+)-FT-ICR MS Analysis of Hydrocarbons Using Isooctane as Ionizing Reagent - A Comparison with HTGC-FID, GC-MS and NMR. <i>Journal of the Brazilian Chemical Society</i> , <b>2018</b> ,	1.5	2
56	Analysis of Isomeric Cannabinoid Standards and Cannabis Products by UPLC-ESI-TWIM-MS: a Comparison with GC-MS and GC-MS-QMS. <i>Journal of the Brazilian Chemical Society</i> , <b>2018</b> ,	1.5	6
55	Extraction and isolation of cannabinoids from marijuana seizures and characterization by H NMR allied to chemometric tools. <i>Science and Justice - Journal of the Forensic Science Society</i> , <b>2018</b> , 58, 355-365	2	15
54	Synthesis, Antibacterial and Antitubercular Evaluation of Cardanol and Glycerol-Based $\beta$ -Amino Alcohol Derivatives. <i>Journal of the Brazilian Chemical Society</i> , <b>2017</b> ,	1.5	3
53	Improvement on Pour Point of Heavy Oils by Adding Organic Solvents. <i>Revista Virtual De Quimica</i> , <b>2017</b> , 9, 2404-2413	1.3	2
52	Cell Viability by CellProfiler Software as Equivalent to MTT Assay. <i>Pharmacognosy Magazine</i> , <b>2017</b> , 13, S365-S369	0.8	6
51	Study of the effect of temperature and gas condensate addition on the viscosity of heavy oils. <i>Journal of Petroleum Science and Engineering</i> , <b>2016</b> , 142, 163-169	4.4	21
50	Qualitative analysis of designer drugs by paper spray ionisation mass spectrometry (PSI-MS). <i>Analytical Methods</i> , <b>2016</b> , 8, 614-620	3.2	35

49	Evaluating the selectivity of colorimetric test (Fast Blue BB salt) for the cannabinoids identification in marijuana street samples by UV-Vis, TLC, ESI(+)-FT-ICR MS and ESI(+)-MS/MS. <i>Forensic Chemistry</i> , <b>2016</b> , 1, 13-21	2.8	23
48	Chemical profiles of Robusta and Arabica coffee by ESI(+)-FT-ICR MS and ATR-FTIR: a quantitative approach. <i>Analytical Methods</i> , <b>2016</b> , 8, 7678-7688	3.2	17
47	Improving the physicochemical properties of Brazilian onshore and offshore crude oils using the production of blends. <i>Fuel</i> , <b>2015</b> , 159, 607-613	7.1	6
46	First synthesis of aminonaphthoquinones derived from lawsone in a colloidal dispersion system created by a Brønsted acid-surfactant-combined catalyst in water: An environmentally friendly protocol. <i>Colloids and Interface Science Communications</i> , <b>2015</b> , 4, 14-18	5.4	8
45	A novel cytosporone 3-Heptyl-4,6-dihydroxy-3H-isobenzofuran-1-one: synthesis; toxicological, apoptotic and immunomodulatory properties; and potentiation of mutagenic damage. <i>BMC Cancer</i> , <b>2015</b> , 15, 561	4.8	11
44	Characterisation and selection of demulsifiers for water-in-crude oil emulsions using low-field <sup>1</sup> H NMR and ESI(+)-FT-ICR MS. <i>Fuel</i> , <b>2015</b> , 140, 762-769	7.1	33
43	Evidencing the crude oil corrosion by Raman spectroscopy, atomic force microscopy and electrospray ionization FT-ICR mass spectrometry. <i>Fuel</i> , <b>2015</b> , 139, 328-336	7.1	34
42	No-deuterium proton NMR (No-D NMR): A simple, fast and powerful method for analyses of illegal drugs. <i>Microchemical Journal</i> , <b>2015</b> , 118, 12-18	4.8	7
41	Synthesis, Antitumor Activity and Docking of 2,3-(Substituted)-1,4-Naphthoquinone Derivatives Containing Nitrogen, Oxygen and Sulfur. <i>Journal of the Brazilian Chemical Society</i> , <b>2015</b> ,	1.5	11
40	Chemical constituents from <i>Maytenus guianensis</i> Klotzsch ex Reissek (Celastraceae) Amazon rainforest. <i>Biochemical Systematics and Ecology</i> , <b>2015</b> , 58, 270-273	1.4	6
39	Recent Advances in Using Niobium Compounds as Catalysts in Organic Chemistry. <i>Current Organic Synthesis</i> , <b>2015</b> , 12, 570-583	1.9	15
38	Unequivocal structural assignments of three cycloheptenoid intermediates for guaiane sesquiterpenes: an experimental and theoretical approach. <i>Magnetic Resonance in Chemistry</i> , <b>2014</b> , 52, 318-28	2.1	1
37	Study of Brazilian asphaltene aggregation by Nuclear Magnetic Resonance spectroscopy. <i>Fuel</i> , <b>2014</b> , 117, 146-151	7.1	53
36	An evaluation of the aromaticity of asphaltenes using atmospheric pressure photoionization Fourier transform ion cyclotron resonance mass spectrometry (APPI(+)-FT-ICR MS. <i>Fuel</i> , <b>2014</b> , 118, 348-357	7.1	66
35	Evaluation of the Physicochemical Properties of the Postsalt Crude Oil for Low-Field NMR. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 8881-8889	3.9	26
34	A simple and convenient method for synthesis of new aminonaphthoquinones derived from lawsone by catalytic multicomponent Mannich reaction. <i>Tetrahedron Letters</i> , <b>2014</b> , 55, 4373-4377	2	22
33	Limitations of the Pour Point Measurement and the Influence of the Oil Composition on Its Detection Using Principal Component Analysis. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 1686-1691	4.1	13
32	A new synthetic resorcinolic lipid 3-heptyl-3,4,6-trimethoxy-3H-isobenzofuran-1-one: evaluation of toxicology and ability to potentiate the mutagenic and apoptotic effects of cyclophosphamide. <i>European Journal of Medicinal Chemistry</i> , <b>2014</b> , 75, 132-42	6.8	27

31	Chemical composition of essential oil from ripe fruit of <i>Schinus terebinthifolius</i> Raddi and evaluation of its activity against wild strains of hospital origin. <i>Brazilian Journal of Microbiology</i> , <b>2014</b> , 45, 821-8	2.2	27
30	A New, Simple and Efficient Method of Steglich Esterification of Juglone with Long-Chain Fatty Acids: Synthesis of a New Class of Non-Polymeric Wax Deposition Inhibitors for Crude Oil. <i>Journal of the Brazilian Chemical Society</i> , <b>2014</b> ,	1.5	9
29	Análise do teor e da qualidade dos lipídeos presentes em sementes de oleaginosas por rmn de baixo campo. <i>Quimica Nova</i> , <b>2014</b> , 37, 10-17	1.6	6
28	Quality control of ethanol fuel: Assessment of adulteration with methanol using <sup>1</sup> H NMR. <i>Fuel</i> , <b>2014</b> , 135, 387-392	7.1	13
27	Application of Low-Field NMR for the Determination of Physical Properties of Petroleum Fractions. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 673-679	4.1	48
26	Effect of $\text{Nb}^{5+}/\text{O}^{2-}$ Thermal Treatment on the Esterification of a Fatty Acid. <i>Modern Research in Catalysis</i> , <b>2013</b> , 02, 63-67	0.6	
25	GIAO chemical shifts calculations of some polycyclic cage compounds: Unambiguous assignment of NMR signals and stereoisomers. <i>Journal of Molecular Structure</i> , <b>2012</b> , 1007, 191-195	3.4	2
24	Studies on crude oil-water biphasic mixtures by low-field NMR. <i>Magnetic Resonance in Chemistry</i> , <b>2012</b> , 50, 85-8	2.1	32
23	<sup>1</sup> H low- and high-field NMR study of the effects of plasma treatment on the oil and water fractions in crude heavy oil. <i>Fuel</i> , <b>2012</b> , 92, 62-68	7.1	12
22	NMR property calculations and experimental study of the 1,6-epoxycarvone and $\beta$ -epoxypinene: a comparison of models. <i>Magnetic Resonance in Chemistry</i> , <b>2011</b> , 49, 140-6	2.1	11
21	Electrochemical and theoretical evaluation of the interaction between dna and amodiaquine: evidence of the guanine adduct formation. <i>Quimica Nova</i> , <b>2010</b> , 33, 1291-1296	1.6	4
20	Revisiting the stability of endo/exo Diels-Alder adducts between cyclopentadiene and 1,4-benzoquinone. <i>Journal of the Brazilian Chemical Society</i> , <b>2010</b> , 21, 112-118	1.5	5
19	<sup>1</sup> H and <sup>13</sup> C NMR spectral data of bioactive cage-like polycyclic compounds. <i>Magnetic Resonance in Chemistry</i> , <b>2010</b> , 48, 409-15	2.1	9
18	Fast and Efficient Synthesis of Pyrano[3,2-c]quinolines Catalyzed by Niobium(V) Chloride. <i>Synthesis</i> , <b>2008</b> , 2008, 2527-2536	2.9	4
17	Stereochemistry of cyclopentane derivatives from (2,3)J(CH) dependence on dihedral angle (theta H-C-C-X). <i>Magnetic Resonance in Chemistry</i> , <b>2008</b> , 46, 268-73	2.1	9
16	Niobium to alcohol mol ratio control of the concurring esterification and etherification reactions promoted by NbCl <sub>5</sub> and Al <sub>2</sub> O <sub>3</sub> catalysts under microwave irradiation. <i>Applied Catalysis A: General</i> , <b>2008</b> , 338, 9-13	5.1	19
15	Long-range JCH heteronuclear coupling constants in cyclopentane derivatives. Part II. <i>Magnetic Resonance in Chemistry</i> , <b>2007</b> , 45, 82-6	2.1	7
14	NMR and theoretical investigation of the keto-enol tautomerism in cyclohexane-1,3-diones. <i>Journal of Molecular Structure</i> , <b>2007</b> , 828, 54-58	3.4	18

13	Opening of Epoxide Rings Catalyzed by Niobium Pentachloride. <i>Synthetic Communications</i> , <b>2007</b> , 37, 3529-3539	1.7	25
12	Long-range J(CH) heteronuclear coupling constants in cyclopentane derivatives. <i>Magnetic Resonance in Chemistry</i> , <b>2006</b> , 44, 95-8	2.1	24
11	Analysis of a cycloheptenone derivative: an experimental and theoretical approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2006</b> , 63, 709-13	4.4	6
10	Detailed assignments of <sup>1</sup> H and <sup>13</sup> C NMR spectral data of 13 beta-substituted cycloenones. <i>Magnetic Resonance in Chemistry</i> , <b>2005</b> , 43, 346-7	2.1	16
9	Complete assignments of <sup>1</sup> H and <sup>13</sup> C NMR spectral data for benzylidenebenzyl butyrolactone lignans. <i>Magnetic Resonance in Chemistry</i> , <b>2005</b> , 43, 966-9	2.1	14
8	High stereoselectivity on low temperature Diels-Alder reactions. <i>Beilstein Journal of Organic Chemistry</i> , <b>2005</b> , 1, 14	2.5	11
7	Niobium (V) Chloride Mediated Preparation of $\alpha$ -Chloro- $\beta$ -Unsaturated Ketones. <i>Letters in Organic Chemistry</i> , <b>2004</b> , 1, 360-364	0.6	14
6	Detailed assignments of <sup>1</sup> H and <sup>13</sup> C NMR spectral data of 14 cyclopentane derivatives. <i>Magnetic Resonance in Chemistry</i> , <b>2003</b> , 41, 641-643	2.1	6
5	Niobium Pentachloride Activation of Enone Derivatives: Diels-Alder and Conjugate Addition Products. <i>Molecules</i> , <b>2002</b> , 7, 456-464	4.8	17
4	Principal component analysis of long-range <sup>13</sup> C coupling constants of some cyclic compounds. <i>Journal of Molecular Structure</i> , <b>2001</b> , 597, 129-136	3.4	26
3	Niobium Pentachloride Catalysed Ring Opening of Epoxides. <i>Molecules</i> , <b>2001</b> , 6, 770-776	4.8	24
2	Study of the Effect of Inhibitors Solutions on the Chemical Composition of Waxes by Rheology Tests and High Resolution Mass Spectrometry. <i>Journal of the Brazilian Chemical Society</i> ,	1.5	3
1	Identifying New Isatin Derivatives with GSK-3 $\beta$ Inhibition Capacity through Molecular Docking and Bioassays. <i>Journal of the Brazilian Chemical Society</i> ,	1.5	4