

# Lawrence B Alemany

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

3,656  
citations

361413

20  
h-index

330143

37  
g-index

40  
all docs

40  
docs citations

40  
times ranked

6533  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Strength, Microporous, Two-Dimensional Polymer Thin Films with Rigid Benzoxazole Linkage. ACS Applied Materials & Interfaces, 2022, 14, 1861-1873.	8.0	7
2	Metal-Free Sulfonate/Sulfate-Functionalized Carbon Nitride for Direct Conversion of Glucose to Levulinic Acid. ACS Sustainable Chemistry and Engineering, 2022, 10, 6230-6243.	6.7	10
3	Light-activated molecular machines are fast-acting broad-spectrum antibacterials that target the membrane. Science Advances, 2022, 8, .	10.3	28
4	A Dual Catalyst Strategy for Controlling Aluminum Nanocrystal Growth. Nano Letters, 2022, 22, 5570-5574.	9.1	4
5	Predicting <sup>1</sup> H NMR relaxation in Gd <sup>3+</sup> -aqua using molecular dynamics simulations. Physical Chemistry Chemical Physics, 2021, 23, 20974-20984.	2.8	8
6	Rapid, Ambient Temperature Synthesis of Imine Covalent Organic Frameworks Catalyzed by Transition-Metal Nitrates. Chemistry of Materials, 2021, 33, 3394-3400.	6.7	26
7	Bulk Production of Any Ratio <sup>12</sup> C: <sup>13</sup> C Turbostratic Flash Graphene and Its Unusual Spectroscopic Characteristics. ACS Nano, 2021, 15, 10542-10552.	14.6	17
8	Enhancement of crystallinity of imine-linked covalent organic frameworks <i>via</i> aldehyde modulators. Polymer Chemistry, 2020, 11, 4464-4468.	3.9	33
9	Birch Reduction of Asphaltenes. Synthesis of Hydroasphaltenes. Energy & Fuels, 2019, 33, 8040-8044.	5.1	2
10	Enantioselective Catalytic Allylation of Acyclic Ketiminoesters: Synthesis of $\hat{\pm}$ -Fully-Substituted Amino Esters. Organic Letters, 2019, 21, 9208-9211.	4.6	31
11	Near-Infrared Light Activates Molecular Nanomachines to Drill into and Kill Cells. ACS Nano, 2019, 13, 6813-6823.	14.6	39
12	Synthesis of Structurally Diverse 3-, 4-, 5-, and 6-Membered Heterocycles from Diisopropyl Iminomalonates and Soft <i>C</i> -Nucleophiles. Journal of Organic Chemistry, 2019, 84, 7066-7099.	3.2	10
13	Molecular Nanomachines Disrupt Bacterial Cell Wall, Increasing Sensitivity of Extensively Drug-Resistant <i>Klebsiella pneumoniae</i> to Meropenem. ACS Nano, 2019, 13, 14377-14387.	14.6	42
14	Total Synthesis and Full Structural Assignment of Namenamicin. Journal of the American Chemical Society, 2018, 140, 8091-8095.	13.7	18
15	Structural Studies of Hydrographenes. Accounts of Chemical Research, 2017, 50, 1351-1358.	15.6	10
16	Photoenhanced transformation of hydroxylated fullerene (fullerol) by free chlorine in water. Environmental Science: Nano, 2017, 4, 470-479.	4.3	14
17	Structural Characteristics and Properties of a New Graphitic $\alpha$ -Based Material. Chemistry - A European Journal, 2016, 22, 1452-1460.	3.3	8
18	NMR at the University of St. Thomas (TX): Cooperation and Collaboration with Rice University. ACS Symposium Series, 2016, , 93-126.	0.5	0

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19	Solid- and Solution-State Nuclear Magnetic Resonance Analyses of Ecuadorian Asphaltene: Quantitative Solid-State Aromaticity Determination Supporting the "Island" Structural Model. Aliphatic Structural Information from Solution-State $^1\text{H}$ and $^{13}\text{C}$ Heteronuclear Single-Quantum Coherence Experiments. <i>Energy &amp; Fuels</i> , 2015, 29, 6317-6329.	5.1	20
20	Cross-Linking Amine-Rich Compounds into High Performing Selective CO <sub>2</sub> Absorbents. <i>Scientific Reports</i> , 2015, 4, 7304.	3.3	42
21	Capturing carbon dioxide as a polymer from natural gas. <i>Nature Communications</i> , 2014, 5, 3961.	12.8	51
22	Additional insights from very-high-resolution $^{13}\text{C}$ NMR spectra of long-chain alkanes. <i>Magnetic Resonance in Chemistry</i> , 2013, 51, 605-613.	1.9	2
23	Synthesis of Fluorinated Graphene Oxide and its Amphiphobic Properties. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 266-272.	2.3	106
24	Birch Reduction of Graphite. Edge and Interior Functionalization by Hydrogen. <i>Journal of the American Chemical Society</i> , 2012, 134, 18689-18694.	13.7	112
25	Structural Dislocations in Anthracite. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2521-2524.	4.6	40
26	Reductive Alkylation of Anthracite: Edge Functionalization. <i>Energy &amp; Fuels</i> , 2011, 25, 3997-4005.	5.1	11
27	Simple organofluorine compounds giving field-dependent $^{13}\text{C}$ and $^{19}\text{F}$ NMR spectra with complex patterns: higher order effects and cross-correlated relaxation. <i>Magnetic Resonance in Chemistry</i> , 2010, 48, 882-891.	1.9	8
28	New insights into the structure and reduction of graphite oxide. <i>Nature Chemistry</i> , 2009, 1, 403-408.	13.6	2,355
29	Demonstration of covalent sidewall functionalization of single wall carbon nanotubes by NMR spectroscopy: Side chain length dependence on the observation of the sidewall sp <sup>3</sup> carbons. <i>Nano Research</i> , 2008, 1, 72-88.	10.4	54
30	Dodecylated Large Fullerenes: An Unusual Class of Solids. <i>Chemistry of Materials</i> , 2008, 20, 5513-5521.	6.7	7
31	Solid-State $^{29}\text{Si}$ NMR Analysis of Cements: Comparing Different Methods of Relaxation Analysis for Determining Spin Lattice Relaxation Times to Enable Determination of the C <sub>3</sub> S/C <sub>2</sub> S Ratio. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 5122-5130.	3.7	15
32	Using simple $^{13}\text{C}$ NMR linewidth and relaxation measurements to make detailed chemical shift assignments in triacylglycerols and related compounds. <i>Chemistry and Physics of Lipids</i> , 2002, 120, 33-44.	3.2	24
33	Thermolysis of Free-Radical Initiators: tert-Butylazocumene and Its 1,3- and 1,4-Bisazo and 1,3,5-Trisazo Analogues. <i>Journal of the American Chemical Society</i> , 2001, 123, 3706-3715.	13.7	18
34	Elevated Conformational Rigidity in Dipeptides Incorporating Piperazine Acid Derivatives. <i>Journal of the American Chemical Society</i> , 1998, 120, 80-86.	13.7	40
35	Synthesis and Characterization of a Block Copolymer Consisting of Poly(propylene fumarate) and Poly(ethylene glycol). <i>Macromolecules</i> , 1997, 30, 4318-4323.	4.8	57
36	Characterization of partially saturated poly(propylene fumarate) for orthopaedic application. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1997, 8, 893-904.	3.5	79

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37	Zeolite MCM-49: A Three-Dimensional MCM-22 Analogue Synthesized by in Situ Crystallization. The Journal of Physical Chemistry, 1996, 100, 3788-3798.	2.9	278
38	Investigations of Coronatine Biosynthesis. Elucidation of the Mode of Incorporation of Pyruvate into Coronafacic Acid. Journal of the American Chemical Society, 1996, 118, 703-704.	13.7	29
39	The Synthesis and Characterization of a Novel Block Copolymer Consisting of Poly(Propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.1	0