

Lawrence B Alemany

List of Publications by Citations

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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.

38
papers

13,752
citations

26
h-index

39
g-index

39
ext. papers

15,095
ext. citations

11.4
avg, IF

6.12
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 38 | Improved synthesis of graphene oxide. <i>ACS Nano</i> , 2010 , 4, 4806-14 | 16.7 | 8269 |
| 37 | New insights into the structure and reduction of graphite oxide. <i>Nature Chemistry</i> , 2009 , 1, 403-8 | 17.6 | 2094 |
| 36 | Sidewall carboxylic acid functionalization of single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 15174-82 | 16.4 | 479 |
| 35 | Graphene oxide. Origin of acidity, its instability in water, and a new dynamic structural model. <i>ACS Nano</i> , 2013 , 7, 576-88 | 16.7 | 450 |
| 34 | Pristine graphite oxide. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2815-22 | 16.4 | 336 |
| 33 | Engineered graphite oxide materials for application in water purification. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1821-6 | 9.5 | 290 |
| 32 | Cross polarization and magic angle sample spinning NMR spectra of model organic compounds. 3. Effect of the carbon-13-proton dipolar interaction on cross polarization and carbon-proton dephasing. <i>Journal of the American Chemical Society</i> , 1983 , 105, 6697-6704 | 16.4 | 224 |
| 31 | Surface-rolling molecules. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4854-64 | 16.4 | 175 |
| 30 | Cross polarization and magic angle sample spinning NMR spectra of model organic compounds. 1. Highly protonated molecules. <i>Journal of the American Chemical Society</i> , 1983 , 105, 2133-2141 | 16.4 | 162 |
| 29 | First observation of 5-coordinate aluminum by MAS aluminum-27 NMR in well-characterized solids. <i>Journal of the American Chemical Society</i> , 1986 , 108, 6158-6162 | 16.4 | 114 |
| 28 | Cross polarization and magic angle sample spinning NMR spectra of model organic compounds. 2. Molecules of low or remote protonation. <i>Journal of the American Chemical Society</i> , 1983 , 105, 2142-2147 | 16.4 | 104 |
| 27 | Birch reduction of graphite. Edge and interior functionalization by hydrogen. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18689-94 | 16.4 | 100 |
| 26 | Toward a light-driven motorized nanocar: synthesis and initial imaging of single molecules. <i>ACS Nano</i> , 2012 , 6, 592-7 | 16.7 | 100 |
| 25 | In situ intercalation replacement and selective functionalization of graphene nanoribbon stacks. <i>ACS Nano</i> , 2012 , 6, 4231-40 | 16.7 | 94 |
| 24 | Synthesis of Fluorinated Graphene Oxide and its Amphiphobic Properties. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 266-272 | 3.1 | 93 |
| 23 | Fluorinated h-BN as a magnetic semiconductor. <i>Science Advances</i> , 2017 , 3, e1700842 | 14.3 | 87 |
| 22 | Structure analyses of dodecylated single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13941-8 | 16.4 | 64 |

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|----|--|------|----|
| 21 | Solid-State NMR Analysis of Fluorinated Single-Walled Carbon Nanotubes: Assessing the Extent of Fluorination. <i>Chemistry of Materials</i> , 2007 , 19, 735-744 | 9.6 | 61 |
| 20 | Solid state magnetic resonance spectra of Illinois No. 6 coal and some reductive alkylation products. <i>Fuel</i> , 1984 , 63, 513-521 | 7.1 | 54 |
| 19 | Demonstration of covalent sidewall functionalization of single wall carbon nanotubes by NMR spectroscopy: Side chain length dependence on the observation of the sidewall sp ³ carbons. <i>Nano Research</i> , 2008 , 1, 72-88 | 10 | 52 |
| 18 | Diels-Alder addition to fluorinated single walled carbon nanotubes. <i>Chemical Communications</i> , 2005 , 3265-7 | 5.8 | 48 |
| 17 | Functionalization of individual ultra-short single-walled carbon nanotubes. <i>Nanotechnology</i> , 2006 , 17, 5033-5037 | 3.4 | 45 |
| 16 | Formation, isolation, spectroscopic properties, and calculated properties of some isomers of C(60)H(36). <i>Journal of the American Chemical Society</i> , 2001 , 123, 8482-95 | 16.4 | 43 |
| 15 | Very fast MAS and MQMAS NMR studies of the spectroscopically challenging minerals kyanite and andalusite on 400, 500, and 800 MHz spectrometers. <i>Solid State Nuclear Magnetic Resonance</i> , 1999 , 14, 1-18 | 3.1 | 40 |
| 14 | Inorganic/Organic Hybrid and Composite Resin Materials Using Carboxylate-Alumoxanes as Functionalized Cross-Linking Agents. <i>Chemistry of Materials</i> , 2000 , 12, 795-804 | 9.6 | 39 |
| 13 | Chemical Makeup and Hydrophilic Behavior of Graphene Oxide Nanoribbons after Low-Temperature Fluorination. <i>ACS Nano</i> , 2015 , 9, 7009-18 | 16.7 | 34 |
| 12 | Solid- and Solution-State Nuclear Magnetic Resonance Analyses of Ecuadorian Asphaltenes: Quantitative Solid-State Aromaticity Determination Supporting the Bland Structural Model. Aliphatic Structural Information from Solution-State ¹ H- ¹³ C Heteronuclear Single-Quantum Coherence Experiments. <i>Energy & Fuels</i> , 2015 , 29, 6317-6329 | 4.1 | 16 |
| 11 | Aluminum-27 NMR study of AlPO ₄ -21 and andalusite. Advantages of high-field and very fast MAS. <i>Journal of Magnetic Resonance</i> , 1988 , 80, 427-438 | | 13 |
| 10 | Synthesis of light-driven motorized nanocars for linear trajectories and their detailed NMR structural determination. <i>Tetrahedron</i> , 2017 , 73, 4864-4873 | 2.4 | 11 |
| 9 | Functionalization by Reductive Alkylation and Mapping of a Subbituminous Coal by Energy Dispersive X-ray Spectroscopy. <i>Energy & Fuels</i> , 2011 , 25, 1571-1577 | 4.1 | 11 |
| 8 | Reductive Alkylation of Anthracite: Edge Functionalization. <i>Energy & Fuels</i> , 2011 , 25, 3997-4005 | 4.1 | 10 |
| 7 | New polyoxomolybdenum coordination compounds: Synthesis and characterization of mixed-valent Mo ₆ O ₁₃ (Hsal) ₂ (sal) ₂ (acac) ₂ and homovalent Mo ₄ O ₁₀ (acac) ₄ (Hsal=2-HO-C ₆ H ₄ , sal ₂ =2-O-C ₆ H ₄). <i>Inorganica Chimica Acta</i> , 2009 , 362, 1665-1671 | 2.7 | 10 |
| 6 | Structural Characteristics and Properties of a New Graphitic-Based Material. <i>Chemistry - A European Journal</i> , 2016 , 22, 1452-60 | 4.8 | 8 |
| 5 | Dodecylated Large Fullerenes: An Unusual Class of Solids. <i>Chemistry of Materials</i> , 2008 , 20, 5513-5521 | 9.6 | 7 |
| 4 | Soluble activated charcoal. <i>Carbon</i> , 2009 , 47, 3145-3150 | 10.4 | 5 |

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| 3 | Structural Studies of Hydrographenes. <i>Accounts of Chemical Research</i> , 2017 , 50, 1351-1358 | 24.3 | 4 |
| 2 | Bulk Production of Any Ratio C:C Turbostratic Flash Graphene and Its Unusual Spectroscopic Characteristics. <i>ACS Nano</i> , 2021 , 15, 10542-10552 | 16.7 | 4 |
| 1 | Birch Reduction of Asphaltenes. Synthesis of Hydroasphaltenes. <i>Energy & Fuels</i> , 2019 , 33, 8040-8044. | 4.1 | 1 |