

Lawrence B Alemany

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.

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	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
37	Birch Reduction of Asphaltenes. Synthesis of Hydroasphaltenes. <i>Energy & Fuels</i> , 2019 , 33, 8040-8044	4.1	1
36	Structural Studies of Hydrographenes. <i>Accounts of Chemical Research</i> , 2017 , 50, 1351-1358	24.3	4
35	Fluorinated h-BN as a magnetic semiconductor. <i>Science Advances</i> , 2017 , 3, e1700842	14.3	87
34	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
33	Structural Characteristics and Properties of a New Graphitic-Based Material. <i>Chemistry - A European Journal</i> , 2016 , 22, 1452-60	4.8	8
32	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 $1\text{H}/^{13}\text{C}$ Heteronuclear Single-Quantum Coherence Experiments. <i>Energy & Fuels</i> , 2015 , 29, 6317-6329	4.1	16
31	Chemical Makeup and Hydrophilic Behavior of Graphene Oxide Nanoribbons after Low-Temperature Fluorination. <i>ACS Nano</i> , 2015 , 9, 7009-18	16.7	34
30	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
29	Synthesis of Fluorinated Graphene Oxide and its Amphiphobic Properties. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 266-272	3.1	93
28	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
27	In situ intercalation replacement and selective functionalization of graphene nanoribbon stacks. <i>ACS Nano</i> , 2012 , 6, 4231-40	16.7	94
26	Pristine graphite oxide. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2815-22	16.4	336
25	Toward a light-driven motorized nanocar: synthesis and initial imaging of single molecules. <i>ACS Nano</i> , 2012 , 6, 592-7	16.7	100
24	Engineered graphite oxide materials for application in water purification. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1821-6	9.5	290
23	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
22	Reductive Alkylation of Anthracite: Edge Functionalization. <i>Energy & Fuels</i> , 2011 , 25, 3997-4005	4.1	10

21	Improved synthesis of graphene oxide. <i>ACS Nano</i> , 2010 , 4, 4806-14	16.7	8269
20	New insights into the structure and reduction of graphite oxide. <i>Nature Chemistry</i> , 2009 , 1, 403-8	17.6	2094
19	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-HOOC ₆ H ₄ , sal ₂ =2-OOC ₆ H ₄). <i>Inorganica Chimica Acta</i> , 2009 , 362, 1665-1671	2.7	10
18	Soluble activated charcoal. <i>Carbon</i> , 2009 , 47, 3145-3150	10.4	5
17	Dodecylated Large Fullerenes: An Unusual Class of Solids. <i>Chemistry of Materials</i> , 2008 , 20, 5513-5521	9.6	7
16	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
15	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
14	Functionalization of individual ultra-short single-walled carbon nanotubes. <i>Nanotechnology</i> , 2006 , 17, 5033-5037	3.4	45
13	Surface-rolling molecules. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4854-64	16.4	175
12	Structure analyses of dodecylated single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13941-8	16.4	64
11	Diels-Alder addition to fluorinated single walled carbon nanotubes. <i>Chemical Communications</i> , 2005 , 3265-7	5.8	48
10	Sidewall carboxylic acid functionalization of single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 15174-82	16.4	479
9	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
8	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
7	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
6	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
5	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
4	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

3	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
2	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
1	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