

Lu Hua Li

List of Publications by Year in descending order

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94
papers

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citations

46984

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94
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all docs

97
docs citations

97
times ranked

16744
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen evolution by a metal-free electrocatalyst. <i>Nature Communications</i> , 2014, 5, 3783.	5.8	1,851
2	Molecule-Level g-C ₃ N ₄ Coordinated Transition Metals as a New Class of Electrocatalysts for Oxygen Electrode Reactions. <i>Journal of the American Chemical Society</i> , 2017, 139, 3336-3339.	6.6	1,094
3	Toward Design of Synergistically Active Carbon-Based Catalysts for Electrocatalytic Hydrogen Evolution. <i>ACS Nano</i> , 2014, 8, 5290-5296.	7.3	947
4	High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst. <i>Journal of the American Chemical Society</i> , 2016, 138, 16174-16181.	6.6	852
5	Strong Oxidation Resistance of Atomically Thin Boron Nitride Nanosheets. <i>ACS Nano</i> , 2014, 8, 1457-1462.	7.3	633
6	Mechanical properties of atomically thin boron nitride and the role of interlayer interactions. <i>Nature Communications</i> , 2017, 8, 15815.	5.8	576
7	Observation of Active Sites for Oxygen Reduction Reaction on Nitrogen-Doped Multilayer Graphene. <i>ACS Nano</i> , 2014, 8, 6856-6862.	7.3	519
8	Mechanical Property and Structure of Covalent Functionalised Graphene/Epoxy Nanocomposites. <i>Scientific Reports</i> , 2014, 4, 4375.	1.6	458
9	Atomically Thin Boron Nitride: Unique Properties and Applications. <i>Advanced Functional Materials</i> , 2016, 26, 2594-2608.	7.8	400
10	Large-scale mechanical peeling of boron nitride nanosheets by low-energy ball milling. <i>Journal of Materials Chemistry</i> , 2011, 21, 11862.	6.7	373
11	High thermal conductivity of high-quality monolayer boron nitride and its thermal expansion. <i>Science Advances</i> , 2019, 5, eaav0129.	4.7	308
12	Coordination Number Regulation of Molybdenum Single-Atom Nanozyme Peroxidase-like Specificity. <i>CheM</i> , 2021, 7, 436-449.	5.8	216
13	Disorder in ball-milled graphite revealed by Raman spectroscopy. <i>Carbon</i> , 2013, 57, 515-519.	5.4	158
14	Ball milling: a green mechanochemical approach for synthesis of nitrogen doped carbon nanoparticles. <i>Nanoscale</i> , 2013, 5, 7970.	2.8	149
15	The Magnetic Genome of Two-Dimensional van der Waals Materials. <i>ACS Nano</i> , 2022, 16, 6960-7079.	7.3	149
16	Boron Nitride Nanosheets for Metal Protection. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300132.	1.9	141
17	Raman signature and phonon dispersion of atomically thin boron nitride. <i>Nanoscale</i> , 2017, 9, 3059-3067.	2.8	141
18	High-Efficient Production of Boron Nitride Nanosheets via an Optimized Ball Milling Process for Lubrication in Oil. <i>Scientific Reports</i> , 2014, 4, 7288.	1.6	132

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19	Dielectric Screening in Atomically Thin Boron Nitride Nanosheets. <i>Nano Letters</i> , 2015, 15, 218-223.	4.5	129
20	Quantum Emission from Defects in Single-Crystalline Hexagonal Boron Nitride. <i>Physical Review Applied</i> , 2016, 5, .	1.5	127
21	Superhydrophobic and Superoleophilic Porous Boron Nitride Nanosheet/Polyvinylidene Fluoride Composite Material for Oil-Polluted Water Cleanup. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400267.	1.9	125
22	Two-dimensional NaCl crystals of unconventional stoichiometries on graphene surface from dilute solution at ambient conditions. <i>Nature Chemistry</i> , 2018, 10, 776-779.	6.6	116
23	Highly Compressive Boron Nitride Nanotube Aerogels Reinforced with Reduced Graphene Oxide. <i>ACS Nano</i> , 2019, 13, 7402-7409.	7.3	115
24	Superhydrophobic and Superoleophilic Boron Nitride Nanotube-Coated Stainless Steel Meshes for Oil and Water Separation. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300002.	1.9	107
25	Superhydrophobic Properties of Nonaligned Boron Nitride Nanotube Films. <i>Langmuir</i> , 2010, 26, 5135-5140.	1.6	102
26	Biocompatibility of boron nitride nanosheets. <i>Nano Research</i> , 2018, 11, 334-342.	5.8	98
27	Photoluminescence of boron nitride nanosheets exfoliated by ball milling. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	84
28	Ex situ electrochemical sodiation/desodiation observation of Co_3O_4 -anchored carbon nanotubes: a high performance sodium-ion battery anode produced by pulsed plasma in a liquid. <i>Nanoscale</i> , 2015, 7, 13088-13095.	2.8	80
29	Decoration of nitrogen vacancies by oxygen atoms in boron nitride nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15349.	1.3	79
30	Bulk Hexagonal Boron Nitride with a Quasi-Isotropic Thermal Conductivity. <i>Advanced Functional Materials</i> , 2018, 28, 1707556.	7.8	78
31	Controlled surface modification of boron nitride nanotubes. <i>Nanotechnology</i> , 2011, 22, 245301.	1.3	74
32	Controlling Wettability of Boron Nitride Nanotube Films and Improved Cell Proliferation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18334-18339.	1.5	73
33	Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surface-Enhanced Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8405-8409.	7.2	73
34	Boron nitride nanotubes reinforced aluminum composites prepared by spark plasma sintering: Microstructure, mechanical properties and deformation behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 574, 149-156.	2.6	72
35	Subnanometer Molybdenum Sulfide on Carbon Nanotubes as a Highly Active and Stable Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3543-3550.	4.0	72
36	Electronic Polarizability as the Fundamental Variable in the Dielectric Properties of Two-Dimensional Materials. <i>Nano Letters</i> , 2020, 20, 841-851.	4.5	70

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37	Structure and properties of biomedical films prepared from aqueous and acidic silk fibroin solutions. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 97A, 37-45.	2.1	67
38	Mechanical Properties of Atomically Thin Tungsten Dichalcogenides: WS ₂ , WSe ₂ , and WTe ₂ . <i>ACS Nano</i> , 2021, 15, 2600-2610.	7.3	65
39	Boron nitride nanotube films grown from boron ink painting. <i>Journal of Materials Chemistry</i> , 2010, 20, 9679.	6.7	61
40	Boron nitride nanosheets as improved and reusable substrates for gold nanoparticles enabled surface enhanced Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7761-7766.	1.3	61
41	Synthesis of boron nitride nanotubes by boron ink annealing. <i>Nanotechnology</i> , 2010, 21, 105601.	1.3	59
42	High-Quality Boron Nitride Nanoribbons: Unzipping during Nanotube Synthesis. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4212-4216.	7.2	56
43	Highly efficient oxygen evolution from CoS ₂ /CNT nanocomposites via a one-step electrochemical deposition and dissolution method. <i>Nanoscale</i> , 2017, 9, 6886-6894.	2.8	55
44	Boron Nitride Nanosheet-Veiled Gold Nanoparticles for Surface-Enhanced Raman Scattering. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15630-15636.	4.0	54
45	Gas Protection of Two-Dimensional Nanomaterials from High-Energy Impacts. <i>Scientific Reports</i> , 2016, 6, 35532.	1.6	52
46	Outstanding Thermal Conductivity of Single Atomic Layer Isotope-Modified Boron Nitride. <i>Physical Review Letters</i> , 2020, 125, 085902.	2.9	51
47	Mechanically activated catalyst mixing for high-yield boron nitride nanotube growth. <i>Nanoscale Research Letters</i> , 2012, 7, 417.	3.1	49
48	Insight into reactions and interface between boron nitride nanotube and aluminum. <i>Journal of Materials Research</i> , 2012, 27, 2760-2770.	1.2	47
49	Molecule-Induced Conformational Change in Boron Nitride Nanosheets with Enhanced Surface Adsorption. <i>Advanced Functional Materials</i> , 2016, 26, 8202-8210.	7.8	47
50	Boron nitride nanotube reinforced polyurethane composites. <i>Progress in Natural Science: Materials International</i> , 2013, 23, 170-173.	1.8	46
51	Perforation routes towards practical nano-porous graphene and analogous materials engineering. <i>Carbon</i> , 2019, 155, 660-673.	5.4	46
52	Single deep ultraviolet light emission from boron nitride nanotube film. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	44
53	Humidity sensing properties of single Au-decorated boron nitride nanotubes. <i>Electrochemistry Communications</i> , 2013, 30, 29-33.	2.3	40
54	Electron beam directed etching of hexagonal boron nitride. <i>Nanoscale</i> , 2016, 8, 16182-16186.	2.8	40

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55	Asymmetric electric field screening in van der Waals heterostructures. <i>Nature Communications</i> , 2018, 9, 1271.	5.8	38
56	Synthesis of boron nitride nanotubes, bamboos and nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2513-2516.	1.3	37
57	Porous carbon nanotube/polyvinylidene fluoride composite material: Superhydrophobicity/superoleophilicity and tunability of electrical conductivity. <i>Polymer</i> , 2014, 55, 5616-5622.	1.8	36
58	Synthesis of Composite Nanosheets of Graphene and Boron Nitride and Their Lubrication Application in Oil. <i>Advanced Engineering Materials</i> , 2018, 20, 1700488.	1.6	35
59	Inquisition of <i>Microcystis aeruginosa</i> and <i>Synechocystis</i> nanowires: characterization and modelling. <i>Antonie Van Leeuwenhoek</i> , 2015, 108, 1213-1225.	0.7	32
60	Layer-Dependent Mechanical Properties and Enhanced Plasticity in the Van der Waals Chromium Trihalide Magnets. <i>Nano Letters</i> , 2021, 21, 3379-3385.	4.5	31
61	Effect of warm rolling and annealing on the mechanical properties of aluminum composite reinforced with boron nitride nanotubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 710, 366-373.	2.6	30
62	Non-covalent surface modification of boron nitride nanotubes for enhanced catalysis. <i>Chemical Communications</i> , 2014, 50, 225-227.	2.2	29
63	Interfacial reactions between titanium and boron nitride nanotubes. <i>Scripta Materialia</i> , 2017, 127, 108-112.	2.6	27
64	Strong Coupling of Carbon Quantum Dots in Plasmonic Nanocavities. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19866-19873.	4.0	27
65	Boron nitride nanotube reinforced titanium metal matrix composites with excellent high-temperature performance. <i>Journal of Materials Research</i> , 2017, 32, 3744-3752.	1.2	24
66	Atomically Thin Boron Nitride as an Ideal Spacer for Metal-Enhanced Fluorescence. <i>ACS Nano</i> , 2019, 13, 12184-12191.	7.3	24
67	Advancement in liquid exfoliation of graphite through simultaneously oxidizing and ultrasonication. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20382-20392.	5.2	22
68	High yield BNNTs synthesis by promotion effect of milling-assisted precursor. <i>Microelectronic Engineering</i> , 2013, 110, 256-259.	1.1	21
69	Near-Field Excited Archimedean-like Tiling Patterns in Phonon-Polaritonic Crystals. <i>ACS Nano</i> , 2021, 15, 9134-9142.	7.3	21
70	Electric contributions to magnetic force microscopy response from graphene and MoS ₂ nanosheets. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	19
71	Enhanced Piezoelectric Properties Enabled by Engineered Low-Dimensional Nanomaterials. <i>ACS Applied Nano Materials</i> , 2022, 5, 12126-12142.	2.4	18
72	Fabrication of Boron Nitride Nanotube@Gold Nanoparticle Hybrids Using Pulsed Plasma in Liquid. <i>Langmuir</i> , 2014, 30, 10712-10720.	1.6	17

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73	Two-Dimensional Van der Waals Heterostructures for Synergistically Improved Surface-Enhanced Raman Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21985-21991.	4.0	17
74	High-resolution x-ray absorption studies of core excitons in hexagonal boron nitride. <i>Applied Physics Letters</i> , 2012, 101, 191604.	1.5	15
75	Boundary-Induced Auxiliary Features in Scattering-Type Near-Field Fourier Transform Infrared Spectroscopy. <i>ACS Nano</i> , 2020, 14, 1123-1132.	7.3	15
76	High-Q Phonon-polaritons in Spatially Confined Freestanding $\hat{\Gamma}$ -MoO ₃ . <i>ACS Photonics</i> , 2022, 9, 905-913.	3.2	15
77	In situ prepared V ₂ O ₅ /graphene hybrid as a superior cathode material for lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 35287-35294.	1.7	14
78	Lithium storage in disordered graphitic materials: a semi-quantitative study of the relationship between structure disordering and capacity. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5084-5089.	1.3	13
79	Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surface-Enhanced Raman Spectroscopy. <i>Angewandte Chemie</i> , 2016, 128, 8545-8549.	1.6	13
80	Rigorous and Accurate Contrast Spectroscopy for Ultimate Thickness Determination of Micrometer-Sized Graphene on Gold and Molecular Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22520-22528.	4.0	12
81	Identification and topographical characterisation of microbial nanowires in <i>Nostoc punctiforme</i> . <i>Antonie Van Leeuwenhoek</i> , 2016, 109, 475-480.	0.7	10
82	In situ doping and synthesis of two-dimensional nanomaterials using mechano-chemistry. <i>Nanoscale Horizons</i> , 2019, 4, 642-646.	4.1	10
83	Additive-Free Nb ₂ O ₅ -TiO ₂ Hybrid Anode towards Low-Cost and Safe Lithium-Ion Batteries: A Green Electrode Material Produced in an Environmentally Friendly Process. <i>Batteries and Supercaps</i> , 2019, 2, 160-167.	2.4	9
84	Surface wetting processing on BNNT films by selective plasma modes. <i>Science Bulletin</i> , 2013, 58, 3403-3408.	1.7	8
85	Microstructural and mechanical properties of plasma sprayed boron nitride nanotubes reinforced alumina coating. <i>Ceramics International</i> , 2021, 47, 9194-9202.	2.3	8
86	Nanoparticle-mediated ultra grain refinement and reinforcement in additively manufactured titanium alloys. <i>Additive Manufacturing</i> , 2021, 46, 102173.	1.7	8
87	Atomically thin boron nitride nanodisks. <i>Materials Letters</i> , 2013, 106, 409-412.	1.3	7
88	Boron nitride nanosheets for surface-enhanced Raman spectroscopy. <i>Materials Today Physics</i> , 2022, 22, 100575.	2.9	6
89	Isotope effect on the thermal expansion coefficient of atomically thin boron nitride. <i>2D Materials</i> , 2021, 8, 034006.	2.0	5
90	Vibronic fine structure in high-resolution x-ray absorption spectra from ion-bombarded boron nitride nanotubes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013, 31, 031405.	0.9	3

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91	Innenr¼cktitelbild: Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surface-Enhanced Raman Spectroscopy (Angew. Chem. 29/2016). Angewandte Chemie, 2016, 128, 8597-8597.	1.6	2
92	Field emission properties from boron nitride nanotube field emitters. , 2015, , .		1
93	Synchrotron Photoluminescence Spectroscopy of Boron Nitride Nanotubes with Different Metal Impurities. Materials Research Society Symposia Proceedings, 2009, 1204, 1.	0.1	0
94	Boron nitride nanotube films: preparation, properties, and implications for biology-Applications. , 2016, , 165-181.		0