Lu Hua Li

List of Publications by Citations

93 papers	9,208 citations	41 h-index	95 g-index
97 ext. papers	10,732 ext. citations	8.2 avg, IF	6.27 L-index

#	Paper	IF	Citations
93	Hydrogen evolution by a metal-free electrocatalyst. *Nature Communications*, **2014**, 5, 3783	17.4	1572
92	Molecule-Level g-CN Coordinated Transition Metals as a New Class of Electrocatalysts for Oxygen Electrode Reactions. *Journal of the American Chemical Society*, **2017**, 139, 3336-3339	16.4	816
91	Toward design of synergistically active carbon-based catalysts for electrocatalytic hydrogen evolution. *ACS Nano*, **2014**, 8, 5290-6	16.7	802
90	High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst. *Journal of the American Chemical Society*, **2016**, 138, 16174-16181	16.4	586
89	Strong oxidation resistance of atomically thin boron nitride nanosheets. *ACS Nano*, **2014**, 8, 1457-62	16.7	490
88	Observation of active sites for oxygen reduction reaction on nitrogen-doped multilayer graphene. *ACS Nano*, **2014**, 8, 6856-62	16.7	445
87	Mechanical properties of atomically thin boron nitride and the role of interlayer interactions. *Nature Communications*, **2017**, 8, 15815	17.4	371
86	Mechanical property and structure of covalent functionalised graphene/epoxy nanocomposites. *Scientific Reports*, **2014**, 4, 4375	4.9	352
85	Atomically Thin Boron Nitride: Unique Properties and Applications. *Advanced Functional Materials*, **2016**, 26, 2594-2608	15.6	306
84	Large-scale mechanical peeling of boron nitride nanosheets by low-energy ball milling. *Journal of Materials Chemistry*, **2011**, 21, 11862		301
83	High thermal conductivity of high-quality monolayer boron nitride and its thermal expansion. *Science Advances*, **2019**, 5, eaav0129	14.3	143
82	Disorder in ball-milled graphite revealed by Raman spectroscopy. *Carbon*, **2013**, 57, 515-519	10.4	124
81	Superhydrophobic and Superoleophilic Porous Boron Nitride Nanosheet/Polyvinylidene Fluoride Composite Material for Oil-Polluted Water Cleanup. *Advanced Materials Interfaces*, **2015**, 2, 1400267	4.6	108
80	Dielectric screening in atomically thin boron nitride nanosheets. *Nano Letters*, **2015**, 15, 218-23	11.5	106
79	Raman signature and phonon dispersion of atomically thin boron nitride. *Nanoscale*, **2017**, 9, 3059-3067	7.7	104
78	Ball milling: a green mechanochemical approach for synthesis of nitrogen doped carbon nanoparticles. *Nanoscale*, **2013**, 5, 7970-6	7.7	104
77	High-efficient production of boron nitride nanosheets via an optimized ball milling process for lubrication in oil. *Scientific Reports*, **2014**, 4, 7288	4.9	96

76	Quantum Emission from Defects in Single-Crystalline Hexagonal Boron Nitride. *Physical Review Applied*, **2016**, 5,	4.3	95
75	Boron Nitride Nanosheets for Metal Protection. *Advanced Materials Interfaces*, **2014**, 1, 1300132	4.6	95
74	Superhydrophobic and Superoleophilic Boron Nitride Nanotube-Coated Stainless Steel Meshes for Oil and Water Separation. *Advanced Materials Interfaces*, **2014**, 1, 1300002	4.6	91
73	Superhydrophobic properties of nonaligned boron nitride nanotube films. *Langmuir*, **2010**, 26, 5135-40	4	88
72	Photoluminescence of boron nitride nanosheets exfoliated by ball milling. *Applied Physics Letters*, **2012**, 100, 261108	3.4	73
71	Two-dimensional Na-Cl crystals of unconventional stoichiometries on graphene surface from dilute solution at ambient conditions. *Nature Chemistry*, **2018**, 10, 776-779	17.6	72
70	Decoration of nitrogen vacancies by oxygen atoms in boron nitride nanotubes. *Physical Chemistry Chemical Physics*, **2010**, 12, 15349-53	3.6	71
69	Highly Compressive Boron Nitride Nanotube Aerogels Reinforced with Reduced Graphene Oxide. *ACS Nano*, **2019**, 13, 7402-7409	16.7	70
68	Subnanometer Molybdenum Sulfide on Carbon Nanotubes as a Highly Active and Stable Electrocatalyst for Hydrogen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2016**, 8, 3543-50	8.5	65
67	Biocompatibility of boron nitride nanosheets. *Nano Research*, **2018**, 11, 334-342	10	64
66	Controlling Wettability of Boron Nitride Nanotube Films and Improved Cell Proliferation. *Journal of Physical Chemistry C*, **2012**, 116, 18334-18339	3.8	62
65	Controlled surface modification of boron nitride nanotubes. *Nanotechnology*, **2011**, 22, 245301	3.4	62
64	Coordination Number Regulation of Molybdenum Single-Atom Nanozyme Peroxidase-like Specificity. *CheM*, **2021**, 7, 436-449	16.2	62
63	Ex situ electrochemical sodiation/desodiation observation of Co□□anchored carbon nanotubes: a high performance sodium-ion battery anode produced by pulsed plasma in a liquid. *Nanoscale*, **2015**, 7, 13088-95	7.7	61
62	Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surface-Enhanced Raman Spectroscopy. *Angewandte Chemie - International Edition*, **2016**, 55, 8405-9	16.4	58
61	Boron nitride nanotubes reinforced aluminum composites prepared by spark plasma sintering: Microstructure, mechanical properties and deformation behavior. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 574, 149-156	5.3	56
60	Synthesis of boron nitride nanotubes by boron ink annealing. *Nanotechnology*, **2010**, 21, 105601	3.4	54
59	Structure and properties of biomedical films prepared from aqueous and acidic silk fibroin solutions. *Journal of Biomedical Materials Research - Part A*, **2011**, 97, 37-45	5.4	53

58	Boron nitride nanotube films grown from boron ink painting. *Journal of Materials Chemistry*, **2010**, 20, 9679		53
57	Boron nitride nanosheets as improved and reusable substrates for gold nanoparticles enabled surface enhanced Raman spectroscopy. *Physical Chemistry Chemical Physics*, **2015**, 17, 7761-6	3.6	47
56	High-quality boron nitride nanoribbons: unzipping during nanotube synthesis. *Angewandte Chemie - International Edition*, **2013**, 52, 4212-6	16.4	47
55	Bulk Hexagonal Boron Nitride with a Quasi-Isotropic Thermal Conductivity. *Advanced Functional Materials*, **2018**, 28, 1707556	15.6	45
54	Mechanically activated catalyst mixing for high-yield boron nitride nanotube growth. *Nanoscale Research Letters*, **2012**, 7, 417	5	42
53	Boron Nitride Nanosheet-Veiled Gold Nanoparticles for Surface-Enhanced Raman Scattering. *ACS Applied Materials & Interfaces*, **2016**, 8, 15630-6	9.5	41
52	Single deep ultraviolet light emission from boron nitride nanotube film. *Applied Physics Letters*, **2010**, 97, 141104	3.4	40
51	Molecule-Induced Conformational Change in Boron Nitride Nanosheets with Enhanced Surface Adsorption. *Advanced Functional Materials*, **2016**, 26, 8202-8210	15.6	39
50	Gas Protection of Two-Dimensional Nanomaterials from High-Energy Impacts. *Scientific Reports*, **2016**, 6, 35532	4.9	39
49	Highly efficient oxygen evolution from CoS/CNT nanocomposites via a one-step electrochemical deposition and dissolution method. *Nanoscale*, **2017**, 9, 6886-6894	7.7	38
48	Boron nitride nanotube reinforced polyurethane composites. *Progress in Natural Science: Materials International*, **2013**, 23, 170-173	3.6	38
47	Insight into reactions and interface between boron nitride nanotube and aluminum. *Journal of Materials Research*, **2012**, 27, 2760-2770	2.5	37
46	Synthesis of boron nitride nanotubes, bamboos and nanowires. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 2513-2516	3	34
45	Electronic Polarizability as the Fundamental Variable in the Dielectric Properties of Two-Dimensional Materials. *Nano Letters*, **2020**, 20, 841-851	11.5	31
44	Electron beam directed etching of hexagonal boron nitride. *Nanoscale*, **2016**, 8, 16182-6	7.7	31
43	Porous carbon nanotube/polyvinylidene fluoride composite material: Superhydrophobicity/superoleophilicity and tunability of electrical conductivity. *Polymer*, **2014**, 55, 5616-5622	3.9	30
42	Humidity sensing properties of single Au-decorated boron nitride nanotubes. *Electrochemistry Communications*, **2013**, 30, 29-33	5.1	29
41	Perforation routes towards practical nano-porous graphene and analogous materials engineering. *Carbon*, **2019**, 155, 660-673	10.4	27

40	Non-covalent surface modification of boron nitride nanotubes for enhanced catalysis. *Chemical Communications*, **2014**, 50, 225-7	5.8	25
39	Asymmetric electric field screening in van der Waals heterostructures. *Nature Communications*, **2018**, 9, 1271	17.4	23
38	Interfacial reactions between titanium and boron nitride nanotubes. *Scripta Materialia*, **2017**, 127, 108-112	3.6	21
37	Inquisition of Microcystis aeruginosa and Synechocystis nanowires: characterization and modelling. *Antonie Van Leeuwenhoek*, **2015**, 108, 1213-25	2.1	21
36	Outstanding Thermal Conductivity of Single Atomic Layer Isotope-Modified Boron Nitride. *Physical Review Letters*, **2020**, 125, 085902	7.4	21
35	Effect of warm rolling and annealing on the mechanical properties of aluminum composite reinforced with boron nitride nanotubes. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 710, 366-373	5.3	19
34	Synthesis of Composite Nanosheets of Graphene and Boron Nitride and Their Lubrication Application in Oil. *Advanced Engineering Materials*, **2018**, 20, 1700488	3.5	19
33	Advancement in liquid exfoliation of graphite through simultaneously oxidizing and ultrasonicating. *Journal of Materials Chemistry A*, **2014**, 2, 20382-20392	13	19
32	Strong Coupling of Carbon Quantum Dots in Plasmonic Nanocavities. *ACS Applied Materials & Interfaces*, **2020**, 12, 19866-19873	9.5	18
31	Mechanical Properties of Atomically Thin Tungsten Dichalcogenides: WS, WSe, and WTe. *ACS Nano*, **2021**, 15, 2600-2610	16.7	18
30	Boron nitride nanotube reinforced titanium metal matrix composites with excellent high-temperature performance. *Journal of Materials Research*, **2017**, 32, 3744-3752	2.5	17
29	High-Quality Boron Nitride Nanoribbons: Unzipping during Nanotube Synthesis. *Angewandte Chemie*, **2013**, 125, 4306-4310	3.6	17
28	High yield BNNTs synthesis by promotion effect of milling-assisted precursor. *Microelectronic Engineering*, **2013**, 110, 256-259	2.5	16
27	Atomically Thin Boron Nitride as an Ideal Spacer for Metal-Enhanced Fluorescence. *ACS Nano*, **2019**, 13, 12184-12191	16.7	14
26	In situ prepared V2O5/graphene hybrid as a superior cathode material for lithium-ion batteries. *RSC Advances*, **2016**, 6, 35287-35294	3.7	14
25	Electric contributions to magnetic force microscopy response from graphene and MoS2 nanosheets. *Journal of Applied Physics*, **2014**, 116, 213904	2.5	14
24	Fabrication of boron nitride nanotube-gold nanoparticle hybrids using pulsed plasma in liquid. *Langmuir*, **2014**, 30, 10712-20	4	13
23	High-resolution x-ray absorption studies of core excitons in hexagonal boron nitride. *Applied Physics Letters*, **2012**, 101, 191604	3.4	13

22	Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surface-Enhanced Raman Spectroscopy. *Angewandte Chemie*, **2016**, 128, 8545-8549	3.6	12
21	Boundary-Induced Auxiliary Features in Scattering-Type Near-Field Fourier Transform Infrared Spectroscopy. *ACS Nano*, **2020**, 14, 1123-1132	16.7	11
20	Lithium storage in disordered graphitic materials: a semi-quantitative study of the relationship between structure disordering and capacity. *Physical Chemistry Chemical Physics*, **2015**, 17, 5084-9	3.6	10
19	Two-Dimensional Van der Waals Heterostructures for Synergistically Improved Surface-Enhanced Raman Spectroscopy. *ACS Applied Materials & Interfaces*, **2020**, 12, 21985-21991	9.5	10
18	Near-Field Excited Archimedean-like Tiling Patterns in Phonon-Polaritonic Crystals. *ACS Nano*, **2021**, 15, 9134-9142	16.7	8
17	Rigorous and Accurate Contrast Spectroscopy for Ultimate Thickness Determination of Micrometer-Sized Graphene on Gold and Molecular Sensing. *ACS Applied Materials & Interfaces*, **2018**, 10, 22520-22528	9.5	8
16	Identification and topographical characterisation of microbial nanowires in Nostoc punctiforme. *Antonie Van Leeuwenhoek*, **2016**, 109, 475-80	2.1	7
15	Layer-Dependent Mechanical Properties and Enhanced Plasticity in the Van der Waals Chromium Trihalide Magnets. *Nano Letters*, **2021**, 21, 3379-3385	11.5	7
14	In situ doping and synthesis of two-dimensional nanomaterials using mechano-chemistry. *Nanoscale Horizons*, **2019**, 4, 642-646	10.8	6
13	Surface wetting processing on BNNT films by selective plasma modes. *Science Bulletin*, **2013**, 58, 3403-3408		6
12	Atomically thin boron nitride nanodisks. *Materials Letters*, **2013**, 106, 409-412	3.3	6
11	Additive-Free Nb2O5TiO2 Hybrid Anode towards Low-Cost and Safe Lithium-Ion Batteries: A Green Electrode Material Produced in an Environmentally Friendly Process. *Batteries and Supercaps*, **2019**, 2, 160-167	5.6	4
10	Nanoparticle-mediated ultra grain refinement and reinforcement in additively manufactured titanium alloys. *Additive Manufacturing*, **2021**, 46, 102173	6.1	3
9	Innenrücktitelbild: Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surface-Enhanced Raman Spectroscopy (Angew. Chem. 29/2016). *Angewandte Chemie*, **2016**, 128, 8597-8597	3.6	2
8	Microstructural and mechanical properties of plasma sprayed boron nitride nanotubes reinforced alumina coating. *Ceramics International*, **2021**, 47, 9194-9202	5.1	2
7	Field emission properties from boron nitride nanotube field emitters **2015**,		1
6	Vibronic fine structure in high-resolution x-ray absorption spectra from ion-bombarded boron nitride nanotubes. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2013**, 31, 031405	2.9	1
5	Isotope effect on the thermal expansion coefficient of atomically thin boron nitride. *2D Materials*, **2021**, 8, 034006	5.9	1

4	High-Q Phonon-polaritons in Spatially Confined Freestanding MoO3. *ACS Photonics*, **2022**, 9, 905-913	6.3	1
3	Boron nitride nanosheets for surface-enhanced Raman spectroscopy. *Materials Today Physics*, **2022**, 22, 100575	8	0
2	Synchrotron Photoluminescence Spectroscopy of Boron Nitride Nanotubes with Different Metal Impurities. *Materials Research Society Symposia Proceedings*, **2009**, 1204, 1		
1	Boron nitride nanotube films: preparation, properties, and implications for biology applications **2016**, 165-181		