

Lu Hua Li

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.

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	Boron nitride nanosheets for surface-enhanced Raman spectroscopy. <i>Materials Today Physics</i> , 2022 , 22, 100575	8	0
92	High-Q Phonon-polaritons in Spatially Confined Freestanding EMoO_3 . <i>ACS Photonics</i> , 2022 , 9, 905-913	6.3	1
91	Layer-Dependent Mechanical Properties and Enhanced Plasticity in the Van der Waals Chromium Trihalide Magnets. <i>Nano Letters</i> , 2021 , 21, 3379-3385	11.5	7
90	Near-Field Excited Archimedean-like Tiling Patterns in Phonon-Polaritonic Crystals. <i>ACS Nano</i> , 2021 , 15, 9134-9142	16.7	8
89	Isotope effect on the thermal expansion coefficient of atomically thin boron nitride. <i>2D Materials</i> , 2021 , 8, 034006	5.9	1
88	Microstructural and mechanical properties of plasma sprayed boron nitride nanotubes reinforced alumina coating. <i>Ceramics International</i> , 2021 , 47, 9194-9202	5.1	2
87	Coordination Number Regulation of Molybdenum Single-Atom Nanozyme Peroxidase-like Specificity. <i>Chem</i> , 2021 , 7, 436-449	16.2	62
86	Mechanical Properties of Atomically Thin Tungsten Dichalcogenides: WS, WSe, and WTe. <i>ACS Nano</i> , 2021 , 15, 2600-2610	16.7	18
85	Nanoparticle-mediated ultra grain refinement and reinforcement in additively manufactured titanium alloys. <i>Additive Manufacturing</i> , 2021 , 46, 102173	6.1	3
84	Strong Coupling of Carbon Quantum Dots in Plasmonic Nanocavities. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19866-19873	9.5	18
83	Boundary-Induced Auxiliary Features in Scattering-Type Near-Field Fourier Transform Infrared Spectroscopy. <i>ACS Nano</i> , 2020 , 14, 1123-1132	16.7	11
82	Electronic Polarizability as the Fundamental Variable in the Dielectric Properties of Two-Dimensional Materials. <i>Nano Letters</i> , 2020 , 20, 841-851	11.5	31
81	Outstanding Thermal Conductivity of Single Atomic Layer Isotope-Modified Boron Nitride. <i>Physical Review Letters</i> , 2020 , 125, 085902	7.4	21
80	Two-Dimensional Van der Waals Heterostructures for Synergistically Improved Surface-Enhanced Raman Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21985-21991	9.5	10
79	Atomically Thin Boron Nitride as an Ideal Spacer for Metal-Enhanced Fluorescence. <i>ACS Nano</i> , 2019 , 13, 12184-12191	16.7	14
78	In situ doping and synthesis of two-dimensional nanomaterials using mechano-chemistry. <i>Nanoscale Horizons</i> , 2019 , 4, 642-646	10.8	6
77	High thermal conductivity of high-quality monolayer boron nitride and its thermal expansion. <i>Science Advances</i> , 2019 , 5, eaav0129	14.3	143

76	Highly Compressive Boron Nitride Nanotube Aerogels Reinforced with Reduced Graphene Oxide. <i>ACS Nano</i> , 2019 , 13, 7402-7409	16.7	70
75	Perforation routes towards practical nano-porous graphene and analogous materials engineering. <i>Carbon</i> , 2019 , 155, 660-673	10.4	27
74	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	5.6	4
73	Asymmetric electric field screening in van der Waals heterostructures. <i>Nature Communications</i> , 2018 , 9, 1271	17.4	23
72	Biocompatibility of boron nitride nanosheets. <i>Nano Research</i> , 2018 , 11, 334-342	10	64
71	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	5.3	19
70	Synthesis of Composite Nanosheets of Graphene and Boron Nitride and Their Lubrication Application in Oil. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700488	3.5	19
69	Two-dimensional Na-Cl crystals of unconventional stoichiometries on graphene surface from dilute solution at ambient conditions. <i>Nature Chemistry</i> , 2018 , 10, 776-779	17.6	72
68	Bulk Hexagonal Boron Nitride with a Quasi-Isotropic Thermal Conductivity. <i>Advanced Functional Materials</i> , 2018 , 28, 1707556	15.6	45
67	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	9.5	8
66	Raman signature and phonon dispersion of atomically thin boron nitride. <i>Nanoscale</i> , 2017 , 9, 3059-3067	7.7	104
65	Molecule-Level g-CN 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	16.4	816
64	Highly efficient oxygen evolution from CoS/CNT nanocomposites via a one-step electrochemical deposition and dissolution method. <i>Nanoscale</i> , 2017 , 9, 6886-6894	7.7	38
63	Mechanical properties of atomically thin boron nitride and the role of interlayer interactions. <i>Nature Communications</i> , 2017 , 8, 15815	17.4	371
62	Boron nitride nanotube reinforced titanium metal matrix composites with excellent high-temperature performance. <i>Journal of Materials Research</i> , 2017 , 32, 3744-3752	2.5	17
61	Interfacial reactions between titanium and boron nitride nanotubes. <i>Scripta Materialia</i> , 2017 , 127, 108-112	1.2	21
60	Molecule-Induced Conformational Change in Boron Nitride Nanosheets with Enhanced Surface Adsorption. <i>Advanced Functional Materials</i> , 2016 , 26, 8202-8210	15.6	39
59	High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16174-16181	16.4	586

58	Quantum Emission from Defects in Single-Crystalline Hexagonal Boron Nitride. <i>Physical Review Applied</i> , 2016 , 5,	4.3	95
57	Gas Protection of Two-Dimensional Nanomaterials from High-Energy Impacts. <i>Scientific Reports</i> , 2016 , 6, 35532	4.9	39
56	Boron Nitride Nanosheet-Veiled Gold Nanoparticles for Surface-Enhanced Raman Scattering. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15630-6	9.5	41
55	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, 3543-50	9.5	65
54	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	3.7	14
53	Atomically Thin Boron Nitride: Unique Properties and Applications. <i>Advanced Functional Materials</i> , 2016 , 26, 2594-2608	15.6	306
52	Identification and topographical characterisation of microbial nanowires in <i>Nostoc punctiforme</i> . <i>Antonie Van Leeuwenhoek</i> , 2016 , 109, 475-80	2.1	7
51	Boron nitride nanotube films: preparation, properties, and implications for biology applications 2016 , 165-181		
50	Innenrücktitelbild: Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surface-Enhanced Raman Spectroscopy (Angew. Chem. 29/2016). <i>Angewandte Chemie</i> , 2016 , 128, 8597-8597	3.6	2
49	Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surface-Enhanced Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8405-9	16.4	58
48	Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surface-Enhanced Raman Spectroscopy. <i>Angewandte Chemie</i> , 2016 , 128, 8545-8549	3.6	12
47	Electron beam directed etching of hexagonal boron nitride. <i>Nanoscale</i> , 2016 , 8, 16182-6	7.7	31
46	Boron nitride nanosheets as improved and reusable substrates for gold nanoparticles enabled surface enhanced Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7761-6	3.6	47
45	Ex situ electrochemical sodiation/desodiation observation of Co ⁰ -anchored carbon nanotubes: a high performance sodium-ion battery anode produced by pulsed plasma in a liquid. <i>Nanoscale</i> , 2015 , 7, 13088-95	7.7	61
44	Field emission properties from boron nitride nanotube field emitters 2015 ,		1
43	Superhydrophobic and Superoleophilic Porous Boron Nitride Nanosheet/Polyvinylidene Fluoride Composite Material for Oil-Polluted Water Cleanup. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400267	4.6	108
42	Dielectric screening in atomically thin boron nitride nanosheets. <i>Nano Letters</i> , 2015 , 15, 218-23	11.5	106
41	Inquisition of <i>Microcystis aeruginosa</i> and <i>Synechocystis</i> nanowires: characterization and modelling. <i>Antonie Van Leeuwenhoek</i> , 2015 , 108, 1213-25	2.1	21

40	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, 5084-9	3.6	10
39	High-efficient production of boron nitride nanosheets via an optimized ball milling process for lubrication in oil. <i>Scientific Reports</i> , 2014 , 4, 7288	4.9	96
38	Mechanical property and structure of covalent functionalised graphene/epoxy nanocomposites. <i>Scientific Reports</i> , 2014 , 4, 4375	4.9	352
37	Hydrogen evolution by a metal-free electrocatalyst. <i>Nature Communications</i> , 2014 , 5, 3783	17.4	1572
36	Strong oxidation resistance of atomically thin boron nitride nanosheets. <i>ACS Nano</i> , 2014 , 8, 1457-62	16.7	490
35	Advancement in liquid exfoliation of graphite through simultaneously oxidizing and ultrasonication. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20382-20392	13	19
34	Non-covalent surface modification of boron nitride nanotubes for enhanced catalysis. <i>Chemical Communications</i> , 2014 , 50, 225-7	5.8	25
33	Superhydrophobic and Superoleophilic Boron Nitride Nanotube-Coated Stainless Steel Meshes for Oil and Water Separation. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300002	4.6	91
32	Porous carbon nanotube/polyvinylidene fluoride composite material: Superhydrophobicity/superoleophilicity and tunability of electrical conductivity. <i>Polymer</i> , 2014 , 55, 5616-5622	3.9	30
31	Observation of active sites for oxygen reduction reaction on nitrogen-doped multilayer graphene. <i>ACS Nano</i> , 2014 , 8, 6856-62	16.7	445
30	Toward design of synergistically active carbon-based catalysts for electrocatalytic hydrogen evolution. <i>ACS Nano</i> , 2014 , 8, 5290-6	16.7	802
29	Fabrication of boron nitride nanotube-gold nanoparticle hybrids using pulsed plasma in liquid. <i>Langmuir</i> , 2014 , 30, 10712-20	4	13
28	Boron Nitride Nanosheets for Metal Protection. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300132	4.6	95
27	Electric contributions to magnetic force microscopy response from graphene and MoS ₂ nanosheets. <i>Journal of Applied Physics</i> , 2014 , 116, 213904	2.5	14
26	Ball milling: a green mechanochemical approach for synthesis of nitrogen doped carbon nanoparticles. <i>Nanoscale</i> , 2013 , 5, 7970-6	7.7	104
25	Surface wetting processing on BNNT films by selective plasma modes. <i>Science Bulletin</i> , 2013 , 58, 3403-3408		6
24	Boron nitride nanotube reinforced polyurethane composites. <i>Progress in Natural Science: Materials International</i> , 2013 , 23, 170-173	3.6	38
23	Atomically thin boron nitride nanodisks. <i>Materials Letters</i> , 2013 , 106, 409-412	3.3	6

22	High yield BNNTs synthesis by promotion effect of milling-assisted precursor. <i>Microelectronic Engineering</i> , 2013 , 110, 256-259	2.5	16
21	Humidity sensing properties of single Au-decorated boron nitride nanotubes. <i>Electrochemistry Communications</i> , 2013 , 30, 29-33	5.1	29
20	Disorder in ball-milled graphite revealed by Raman spectroscopy. <i>Carbon</i> , 2013 , 57, 515-519	10.4	124
19	High-quality boron nitride nanoribbons: unzipping during nanotube synthesis. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4212-6	16.4	47
18	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	5.3	56
17	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	2.9	1
16	High-Quality Boron Nitride Nanoribbons: Unzipping during Nanotube Synthesis. <i>Angewandte Chemie</i> , 2013 , 125, 4306-4310	3.6	17
15	High-resolution x-ray absorption studies of core excitons in hexagonal boron nitride. <i>Applied Physics Letters</i> , 2012 , 101, 191604	3.4	13
14	Photoluminescence of boron nitride nanosheets exfoliated by ball milling. <i>Applied Physics Letters</i> , 2012 , 100, 261108	3.4	73
13	Mechanically activated catalyst mixing for high-yield boron nitride nanotube growth. <i>Nanoscale Research Letters</i> , 2012 , 7, 417	5	42
12	Controlling Wettability of Boron Nitride Nanotube Films and Improved Cell Proliferation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18334-18339	3.8	62
11	Insight into reactions and interface between boron nitride nanotube and aluminum. <i>Journal of Materials Research</i> , 2012 , 27, 2760-2770	2.5	37
10	Controlled surface modification of boron nitride nanotubes. <i>Nanotechnology</i> , 2011 , 22, 245301	3.4	62
9	Large-scale mechanical peeling of boron nitride nanosheets by low-energy ball milling. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11862		301
8	Structure and properties of biomedical films prepared from aqueous and acidic silk fibroin solutions. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 97, 37-45	5.4	53
7	Single deep ultraviolet light emission from boron nitride nanotube film. <i>Applied Physics Letters</i> , 2010 , 97, 141104	3.4	40
6	Synthesis of boron nitride nanotubes by boron ink annealing. <i>Nanotechnology</i> , 2010 , 21, 105601	3.4	54
5	Decoration of nitrogen vacancies by oxygen atoms in boron nitride nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 15349-53	3.6	71

- 4 Boron nitride nanotube films grown from boron ink painting. *Journal of Materials Chemistry*, **2010**, 20, 9679 53
- 3 Superhydrophobic properties of nonaligned boron nitride nanotube films. *Langmuir*, **2010**, 26, 5135-40 4 88
- 2 Synchrotron Photoluminescence Spectroscopy of Boron Nitride Nanotubes with Different Metal Impurities. *Materials Research Society Symposia Proceedings*, **2009**, 1204, 1
- 1 Synthesis of boron nitride nanotubes, bamboos and nanowires. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 2513-2516 3 34