

# Li-Hong Bao

## List of Publications by Year in descending order

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75  
papers

4,503  
citations

196777

29  
h-index

116156

66  
g-index

77  
all docs

77  
docs citations

77  
times ranked

8989  
citing authors

#	ARTICLE	IF	CITATIONS
1	Construction and physical properties of low-dimensional structures for nanoscale electronic devices. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 9082-9117.	1.3	3
2	Controllable Synthesis of Atomically Thin $1T\text{-SnSe}_2$ Flakes and Its Linear Second Harmonic Generation with Layer Thickness. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	3
3	Ferroelectric-gated $\text{ReS}_2$ field-effect transistors for nonvolatile memory. <i>Nano Research</i> , 2022, 15, 5443-5449.	5.8	5
4	Dimensional crossover in self-intercalated antiferromagnetic $\text{V}_5\text{S}_8$ nanoflakes. <i>Physical Review B</i> , 2022, 105, .	1.1	6
5	Anomalous thickness dependence of Curie temperature in air-stable two-dimensional ferromagnetic $1T\text{-CrTe}_2$ grown by chemical vapor deposition. <i>Nature Communications</i> , 2021, 12, 809.	5.8	196
6	Intercalation of germanium oxide beneath large-area and high-quality epitaxial graphene on Ir(111) substrate*. <i>Chinese Physics B</i> , 2021, 30, 048102.	0.7	7
7	One-dimensional weak antilocalization effect in $1T\text{-MoTe}_2$ nanowires grown by chemical vapor deposition. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 185701.	0.7	0
8	Modification of the Interlayer Coupling and Chemical Reactivity of Multilayer Graphene through Wrinkle Engineering. <i>Chemistry of Materials</i> , 2021, 33, 2506-2515.	3.2	10
9	Atomically sharp interface enabled ultrahigh-speed non-volatile memory devices. <i>Nature Nanotechnology</i> , 2021, 16, 882-887.	15.6	105
10	Ultrathin $\text{FeTe}$ nanosheets with tetragonal and hexagonal phases synthesized by chemical vapor deposition. <i>Materials Today</i> , 2021, 45, 35-43.	8.3	29
11	A time-shared switching scheme designed for multi-probe scanning tunneling microscope. <i>Review of Scientific Instruments</i> , 2021, 92, 103702.	0.6	2
12	Wrinkle networks in exfoliated multilayer graphene and other layered materials. <i>Carbon</i> , 2020, 156, 24-30.	5.4	23
13	Insulating $\text{SiO}_2$ under Centimeter-Scale, Single-Crystal Graphene Enables Electronic-Device Fabrication. <i>Nano Letters</i> , 2020, 20, 8584-8591.	4.5	19
14	Local probe of the interlayer coupling strength of few-layers $\text{SnSe}$ by contact-resonance atomic force microscopy. <i>Frontiers of Physics</i> , 2020, 15, 1.	2.4	8
15	Ferroelectric-Gated $\text{InSe}$ Photodetectors with High On/Off Ratios and Photoresponsivity. <i>Nano Letters</i> , 2020, 20, 6666-6673.	4.5	53
16	Universal mechanical exfoliation of large-area 2D crystals. <i>Nature Communications</i> , 2020, 11, 2453.	5.8	394
17	Wrinkle-induced highly conductive channels in graphene on $\text{SiO}_2/\text{Si}$ substrates. <i>Nanoscale</i> , 2020, 12, 12038-12045.	2.8	11
18	Thickness-Controlled Synthesis of $\text{CoX}_2$ ( $X = \text{S, Se, and Te}$ ) Single Crystalline 2D Layers with Linear Magnetoresistance and High Conductivity. <i>Chemistry of Materials</i> , 2020, 32, 2321-2329.	3.2	35

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19	Epitaxial growth of metal-semiconductor van der Waals heterostructures NbS <sub>2</sub> /MoS <sub>2</sub> with enhanced performance of transistors and photodetectors. <i>Science China Materials</i> , 2020, 63, 1548-1559.	3.5	40
20	Bipolar Thermoelectrical Transport of SnSe Nanoplate in Low Temperature*. <i>Chinese Physics Letters</i> , 2020, 37, 017301.	1.3	6
21	Transition-Metal Substitution-Induced Lattice Strain and Electrical Polarity Reversal in Monolayer WS <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 18650-18659.	4.0	20
22	InSe/hBN/graphite heterostructure for high-performance 2D electronics and flexible electronics. <i>Nano Research</i> , 2020, 13, 1127-1132.	5.8	48
23	Integrated ionic sieving channels from engineering ordered monolayer two-dimensional crystallite structures. <i>Science Bulletin</i> , 2020, 65, 1356-1362.	4.3	3
24	Scalable preparation of water-soluble ink of few-layered WSe <sub>2</sub> nanosheets for large-area electronics*. <i>Chinese Physics B</i> , 2020, 29, 066802.	0.7	3
25	Electrostatic gating of solid-ion-conductor on InSe flakes and InSe/h-BN heterostructures*. <i>Chinese Physics B</i> , 2020, 29, 118501.	0.7	3
26	Simultaneous generation of direct- and indirect-gap photoluminescence in multilayer $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{MoS} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mdiv} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{nanosheets}$ bubbles. <i>Physical Review Materials</i> , 2020, 4, .	2.5	25
27	Tin diselenide van der Waals materials as new candidates for mid-infrared waveguide chips. <i>Nanoscale</i> , 2019, 11, 14113-14117.	2.8	4
28	Direct probing of imperfection-induced electrical degradation in millimeter-scale graphene on SiO <sub>2</sub> substrates. <i>2D Materials</i> , 2019, 6, 045033.	2.0	2
29	Substrate, a choice of engineering the pseudospin in graphene. <i>2D Materials</i> , 2019, 6, 045050.	2.0	4
30	Observation of the Kondo Effect in Multilayer Single-Crystalline VTe <sub>2</sub> Nanoplates. <i>Nano Letters</i> , 2019, 19, 8572-8580.	4.5	52
31	Electronic structure of exfoliated millimeter-sized monolayer WSe <sub>2</sub> on silicon wafer. <i>Nano Research</i> , 2019, 12, 3095-3100.	5.8	15
32	Centimeter-scale, single-crystalline, AB-stacked bilayer graphene on insulating substrates. <i>2D Materials</i> , 2019, 6, 045044.	2.0	11
33	Reversible Modification of Nitrogen-Doped Graphene Based on Se <sup>+</sup> N Dynamic Covalent Bonds for Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24360-24366.	4.0	13
34	Low-temperature growth of large-scale, single-crystalline graphene on Ir(111)*. <i>Chinese Physics B</i> , 2019, 28, 056107.	0.7	9
35	Quasi-2D Transport and Weak Antilocalization Effect in Few-layered VSe <sub>2</sub> . <i>Nano Letters</i> , 2019, 19, 4551-4559.	4.5	60
36	Charge-Transfer-Induced Photoluminescence Properties of WSe <sub>2</sub> Monolayer <sup>+</sup> Bilayer Homojunction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 20566-20573.	4.0	15

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37	Annealing effects on the electrical and photoelectric performance of SnS <sub>2</sub> field-effect transistor. <i>Applied Surface Science</i> , 2019, 484, 39-44.	3.1	11
38	Sub-10 nm stable graphene quantum dots embedded in hexagonal boron nitride. <i>Nanoscale</i> , 2019, 11, 4226-4230.	2.8	18
39	One-step solution synthesis of a two-dimensional semiconducting covalent organometallic nanosheet via the condensation of boronic acid. <i>RSC Advances</i> , 2019, 9, 29327-29330.	1.7	2
40	Stable Silicene in Graphene/Silicene Van der Waals Heterostructures. <i>Advanced Materials</i> , 2018, 30, e1804650.	11.1	86
41	Intrinsic charge transport behaviors in graphene-black phosphorus van der Waals heterojunction devices. <i>Chinese Physics B</i> , 2018, 27, 077303.	0.7	4
42	Thick Layered Semiconductor Devices with Water Top-Gates: High On/Off Ratio Field-Effect Transistors and Aqueous Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 23198-23207.	4.0	14
43	Upgrade of a commercial four-probe scanning tunneling microscopy system. <i>Review of Scientific Instruments</i> , 2017, 88, 063704.	0.6	13
44	Direct measurements of conductivity and mobility in millimeter-sized single-crystalline graphene via van der Pauw geometry. <i>Chinese Physics B</i> , 2017, 26, 066801.	0.7	14
45	From bidirectional rectifier to polarity-controllable transistor in black phosphorus by dual gate modulation. <i>2D Materials</i> , 2017, 4, 025056.	2.0	7
46	Direct Four-Probe Measurement of Grain-Boundary Resistivity and Mobility in Millimeter-Sized Graphene. <i>Nano Letters</i> , 2017, 17, 5291-5296.	4.5	59
47	High-quality graphene grown on polycrystalline PtRh <sub>20</sub> alloy foils by low pressure chemical vapor deposition and its electrical transport properties. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	3
48	Few-layer SnSe <sub>2</sub> transistors with high on/off ratios. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	75
49	Epitaxy of Ultrathin SnSe Single Crystals on Polydimethylsiloxane: In-Plane Electrical Anisotropy and Gate-Tunable Thermopower. <i>Advanced Electronic Materials</i> , 2016, 2, 1600292.	2.6	31
50	Introduction of Interfacial Charges to Black Phosphorus for a Family of Planar Devices. <i>Nano Letters</i> , 2016, 16, 6870-6878.	4.5	69
51	Atomic-Scale Imaging of Cation Ordering in Inverse Spinel Zn <sub>2</sub> SnO <sub>4</sub> Nanowires. <i>Nano Letters</i> , 2014, 14, 6505-6509.	4.5	19
52	Quantum Corrections Crossover and Ferromagnetism in Magnetic Topological Insulators. <i>Scientific Reports</i> , 2013, 3, 2391.	1.6	43
53	High-quality Bi <sub>2</sub> Te <sub>3</sub> thin films grown on mica substrates for potential optoelectronic applications. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	50
54	A new approach for the preparation of variable valence rare earth alloys from nano rare earth oxides at a low temperature in molten salt. <i>RSC Advances</i> , 2012, 2, 1585-1591.	1.7	9

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55	Aerosol-assisted synthesis of monodisperse single-crystalline $\beta$ -cristobalite nanospheres. <i>Chemical Communications</i> , 2012, 48, 1293-1295.	2.2	21
56	Weak Anti-localization and Quantum Oscillations of Surface States in Topological Insulator Bi <sub>2</sub> Se <sub>3</sub> . <i>Scientific Reports</i> , 2012, 2, 726.	1.6	172
57	Towards Textile Energy Storage from Cotton T-shirts. <i>Advanced Materials</i> , 2012, 24, 3246-3252.	11.1	473
58	Electron Beam Irradiation Stiffens Zinc Tin Oxide Nanowires. <i>Nano Letters</i> , 2011, 11, 4885-4889.	4.5	29
59	Synthesis, structural, optical and mechanical characterization of SrB <sub>2</sub> O <sub>4</sub> nanorods. <i>CrystEngComm</i> , 2011, 13, 5858.	1.3	34
60	Flexible Zn <sub>2</sub> SnO <sub>4</sub> /MnO <sub>2</sub> Core/Shell Nanocable~Carbon Microfiber Hybrid Composites for High-Performance Supercapacitor Electrodes. <i>Nano Letters</i> , 2011, 11, 1215-1220.	4.5	807
61	Core-shell Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> nanoparticles synthesized with well-dispersed hydrophilic Fe <sub>3</sub> O <sub>4</sub> seeds. <i>Nanoscale</i> , 2011, 3, 701-705.	2.8	284
62	Electric dipolar interaction assisted growth of single crystalline organic thin films. <i>Chinese Physics B</i> , 2010, 19, 067101.	0.7	2
63	Field emission properties of patterned boron nanocones. <i>Nanotechnology</i> , 2010, 21, 325705.	1.3	7
64	Catalyst-Free Synthesis and Structural and Mechanical Characterization of Single Crystalline Ca <sub>2</sub> B <sub>2</sub> O <sub>5</sub> ·H <sub>2</sub> O Nanobelts and Stacking Faulted Ca <sub>2</sub> B <sub>2</sub> O <sub>5</sub> Nanogrooves. <i>Nano Letters</i> , 2010, 10, 255-262.	4.5	62
65	Patterned boron nanowires and field emission properties. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	17
66	Fabrication of Vertically Aligned Single-Crystalline Boron Nanowire Arrays and Investigation of Their Field-Emission Behavior. <i>Advanced Materials</i> , 2008, 20, 2609-2615.	11.1	99
67	Self-assembled synthesis of SERS-active silver dendrites and photoluminescence properties of a thin porous silicon layer. <i>Electrochemistry Communications</i> , 2008, 10, 625-629.	2.3	89
68	Large-Scale Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Soluble in Water Synthesized by a Facile Method. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11336-11339.	1.5	264
69	Monodisperse Noble-Metal Nanoparticles and Their Surface Enhanced Raman Scattering Properties. <i>Chemistry of Materials</i> , 2008, 20, 6939-6944.	3.2	181
70	Boron Carbide and Silicon Oxide Hetero-nanonecklaces via Temperature Modulation. <i>Crystal Growth and Design</i> , 2008, 8, 3160-3164.	1.4	15
71	Boron nanowires for flexible electronics. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	33
72	A new route to single crystalline vanadium dioxide nanoflakes via thermal reduction. <i>Journal of Materials Research</i> , 2007, 22, 1921-1926.	1.2	15

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73	Large scale SiC <sup>+</sup> SiO <sub>x</sub> nanocables: Synthesis, photoluminescence, and field emission properties. Journal of Applied Physics, 2007, 102, .	1.1	35
74	Single Crystalline Boron Nanocones: Electric Transport and Field Emission Properties. Advanced Materials, 2007, 19, 4480-4485.	11.1	80
75	Laser-induced phase conversion of n-type SnSe <sub>2</sub> to p-type SnSe. Chinese Physics B, 0, , .	0.7	3