

# Yabin Chen

## List of Publications by Year in descending order

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23  
papers

1,684  
citations

471061

17  
h-index

676716

22  
g-index

25  
all docs

25  
docs citations

25  
times ranked

3612  
citing authors

#	ARTICLE	IF	CITATIONS
1	Density-Dependent Emission Colors from a Conformation-Switching Chromophore in Polyurethanes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	9
2	Carbon nanotube: Controlled synthesis determines its future. <i>Science China Materials</i> , 2020, 63, 16-34.	3.5	16
3	Chemical trends of deep levels in van der Waals semiconductors. <i>Nature Communications</i> , 2020, 11, 5373.	5.8	24
4	Synthesis of Atomically Thin Hexagonal Diamond with Compression. <i>Nano Letters</i> , 2020, 20, 5916-5921.	4.5	42
5	Large bandgap of pressurized trilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9186-9190.	3.3	59
6	Reconfiguring crystal and electronic structures of MoS <sub>2</sub> by substitutional doping. <i>Nature Communications</i> , 2018, 9, 199.	5.8	128
7	Field-Effect Transistors: Thickness-Dependent Carrier Transport Characteristics of a New 2D Elemental Semiconductor: Black Arsenic ( <i>Adv. Funct. Mater.</i> 43/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870312.	7.8	2
8	Perspectives on Thermoelectricity in Layered and 2D Materials. <i>Advanced Electronic Materials</i> , 2018, 4, 1800248.	2.6	77
9	Thickness-Dependent Carrier Transport Characteristics of a New 2D Elemental Semiconductor: Black Arsenic. <i>Advanced Functional Materials</i> , 2018, 28, 1802581.	7.8	125
10	Tuning the optical and electrical properties of MoS <sub>2</sub> by selective Ag photo-reduction. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	17
11	Black Arsenic: A Layered Semiconductor with Extreme In-Plane Anisotropy. <i>Advanced Materials</i> , 2018, 30, e1800754.	11.1	161
12	Pressurizing Field-Effect Transistors of Few-Layer MoS <sub>2</sub> in a Diamond Anvil Cell. <i>Nano Letters</i> , 2017, 17, 194-199.	4.5	31
13	Variable range hopping electric and thermoelectric transport in anisotropic black phosphorus. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	41
14	Decompression-Driven Superconductivity Enhancement in In <sub>2</sub> Se <sub>3</sub> . <i>Advanced Materials</i> , 2017, 29, 1701983.	11.1	35
15	Quantifying van der Waals Interactions in Layered Transition Metal Dichalcogenides from Pressure-Enhanced Valence Band Splitting. <i>Nano Letters</i> , 2017, 17, 4982-4988.	4.5	53
16	Modulating Photoluminescence of Monolayer Molybdenum Disulfide by Metal-Insulator Phase Transition in Active Substrates. <i>Small</i> , 2016, 12, 3976-3984.	5.2	30
17	Site Selective Doping of Ultrathin Metal Dichalcogenides by Laser-Assisted Reaction. <i>Advanced Materials</i> , 2016, 28, 341-346.	11.1	101
18	Nitrogen-doped graphenes as efficient electrocatalysts for the selective reduction of carbon dioxide to formate in aqueous solution. <i>Green Chemistry</i> , 2016, 18, 3250-3256.	4.6	252

#	ARTICLE	IF	CITATIONS
19	Laser-Assisted Doping: Site Selective Doping of Ultrathin Metal Dichalcogenides by Laser-Assisted Reaction (Adv. Mater. 2/2016). Advanced Materials, 2016, 28, 392-392.	11.1	1
20	Ferroelectrically Gated Atomically Thin Transition-Metal Dichalcogenides as Nonvolatile Memory. Advanced Materials, 2016, 28, 2923-2930.	11.1	134
21	MoS <sub>2</sub> forced coupling across the van der Waals gap between MoS <sub>2</sub> and WS <sub>2</sub> layers	1.1	30
22	Anisotropic in-plane thermal conductivity of black phosphorus nanoribbons at temperatures higher than 100 K. Nature Communications, 2015, 6, 8573.	5.8	311
23	Density-Dependent Emission Colors from a Conformation-Switching Chromophore in Polyurethanes. Angewandte Chemie, 0, , .	1.6	4