Yufeng Hao

List of Publications by Year in descending order

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48 papers	7,886 citations	249298 26 h-index	274796 44 g-index
49 all docs	49 docs citations	49 times ranked	15739 citing authors

#	Article	IF	Citations
1	Artificial Neuron Networks Enabled Identification and Characterizations of 2D Materials and van der Waals Heterostructures. ACS Nano, 2022, 16, 2721-2729.	7.3	22
2	Antiferromagnetic Î±-MnTe: Molten-Salt-Assisted Chemical Vapor Deposition Growth and Magneto-Transport Properties. Chemistry of Materials, 2022, 34, 873-880.	3.2	13
3	Magnetic plasmon induced ultra-narrow perfect light absorption at visible frequency for gas sensing. Applied Physics Express, 2022, 15, 042002.	1.1	2
4	An efficient route to prepare suspended monolayer for feasible optical and electronic characterizations of <scp>twoâ€dimensional</scp> materials. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	25
5	Ultracompact Multicore Fiber De-Multiplexer Using an Endface-Integrating Graphene Photodetector Array. ACS Photonics, 2022, 9, 1808-1813.	3.2	8
6	Twisted black phosphorusâ€“based van der Waals stacks for fiber-integrated polarimeters. Science Advances, 2022, 8, eabo0375.	4.7	30
7	Three-terminal photodetectors based on chemical vapor deposition-grown triangular MoSe2 flakes. FlatChem, 2022, 34, 100399.	2.8	8
8	Polycrystalline Few-Layer Graphene as a Durable Anticorrosion Film for Copper. Nano Letters, 2021, 21, 1161-1168.	4.5	39
9	Deeply Exploring Anisotropic Evolution toward Large-Scale Growth of Monolayer ReS₂. ACS Applied Materials & Interfaces, 2020, 12, 2862-2870.	4.0	21
10	Impact of Grain Boundaries on the Elastic Behavior of Transferred Polycrystalline Graphene. Chemistry of Materials, 2020, 32, 6078-6084.	3.2	12
11	The de Haas-van Alphen quantum oscillations in a three-dimensional Dirac semimetal TiSb2. Applied Physics Letters, 2020, 116, 142103.	1.5	9
12	Bulk Fermi surface of the layered superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>TaS</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> with three-dimensional strong topological state. Physical Review B, 2020, 101, .	1.1	16
13	Simultaneous generation of direct- and indirect-gap photoluminescence in multilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> bubbles. Physical Review Materials, 2020, 4, .	3.1	21
14	Enhanced dynamic performance of twisted and coiled soft actuators using graphene coating. Composites Part B: Engineering, 2019, 178, 107499.	5.9	18
15	Hybrid Metasurface-Based Mid-Infrared Biosensor for Simultaneous Quantification and Identification of Monolayer Protein. ACS Photonics, 2019, 6, 501-509.	3.2	47
16	Rational Design of Grapheneâ€Supported Single Atom Catalysts for Hydrogen Evolution Reaction. Advanced Energy Materials, 2019, 9, 1803689.	10.2	279
17	Nano-Subsidence-Assisted Precise Integration of Patterned Two-Dimensional Materials for High-Performance Photodetector Arrays. ACS Nano, 2019, 13, 2654-2662.	7.3	14
18	Optical conductivity-based ultrasensitive mid-infrared biosensing on a hybrid metasurface. Light: Science and Applications, 2018, 7, 67.	7.7	98

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19	Monolayer Molybdenum Disulfide Transistors with Single-Atom-Thick Gates. Nano Letters, 2018, 18, 3807-3813.	4.5	88
20	Oxygen-Promoted Chemical Vapor Deposition of Graphene on Copper: A Combined Modeling and Experimental Study. ACS Nano, 2018, 12, 9372-9380.	7.3	30
21	Tunable mid-infrared biosensors based on graphene metasurfaces. , 2017, , .		0
22	Radiation hardened graphene field effect transistors. , 2016, , .		3
23	Two-dimensional antimonene single crystals grown by van der Waals epitaxy. Nature Communications, 2016, 7, 13352.	5.8	798
24	Lightly Fluorinated Graphene as a Protective Layer for n-Type Si(111) Photoanodes in Aqueous Electrolytes. Nano Letters, 2016, 16, 4082-4086.	4.5	19
25	Effects of thermally-induced changes of Cu grains on domain structure and electrical performance of CVD-grown graphene. Nanoscale, 2016, 8, 930-937.	2.8	5
26	A graphene-based affinity nanosensor for detection of low-charge and low-molecular-weight molecules. Nanoscale, 2016, 8, 5815-5819.	2.8	53
27	Oxygen-activated growth and bandgap tunability of large single-crystal bilayer graphene. Nature Nanotechnology, 2016, 11, 426-431.	15.6	287
28	Fracture of polycrystalline graphene membranes by in situ nanoindentation in a scanning electron microscope. Physica Status Solidi - Rapid Research Letters, 2015, 9, 564-569.	1.2	25
29	Probing carbon isotope effects on the Raman spectra of graphene with different<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>13</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>concentrations. Physical Review B, 2015, 92, .	1.1	20
30	Fully indium-free flexible Ag nanowires/ZnO:F composite transparent conductive electrodes with high haze. Journal of Materials Chemistry A, 2015, 3, 5375-5384.	5.2	125
31	Breaking of Symmetry in Graphene Growth on Metal Substrates. Physical Review Letters, 2015, 114, 115502.	2.9	68
32	Thermal Oxidation of WSe₂ Nanosheets Adhered on SiO₂/Si Substrates. Nano Letters, 2015, 15, 4979-4984.	4.5	84
33	Direct Delamination of Graphene for Highâ€Performance Plastic Electronics. Small, 2014, 10, 694-698.	5.2	52
34	Piezoelectricity of single-atomic-layer MoS2 for energy conversion and piezotronics. Nature, 2014, 514, 470-474.	13.7	1,762
35	Crystal Structure Evolution of Individual Graphene Islands During CVD Growth on Copper Foil. Advanced Materials, 2013, 25, 6744-6751.	11.1	50
36	The Role of Surface Oxygen in the Growth of Large Single-Crystal Graphene on Copper. Science, 2013, 342, 720-723.	6.0	977

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37	Enhancement of the Electrical Properties of Graphene Grown by Chemical Vapor Deposition via Controlling the Effects of Polymer Residue. Nano Letters, 2013, 13, 1462-1467.	4.5	324
38	Rapid Selective Etching of PMMA Residues from Transferred Graphene by Carbon Dioxide. Journal of Physical Chemistry C, 2013, 117, 23000-23008.	1.5	89
39	Highly bendable high-mobility graphene field effect transistors with multi-finger embedded gates on flexible substrates. , 2012, , .		1
40	AN IMPROVED METHOD FOR TRANSFERRING GRAPHENE GROWN BY CHEMICAL VAPOR DEPOSITION. Nano, 2012, 07, 1150001.	0.5	37
41	State-of-the-art graphene transistors on hexagonal boron nitride, high-k, and polymeric films for GHz flexible analog nanoelectronics. , 2012, , .		7
42	Thermoacoustic Sound Generation from Monolayer Graphene for Transparent and Flexible Sound Sources. Advanced Materials, 2012, 24, 6342-6347.	11.1	144
43	Graphene Growth Using a Solid Carbon Feedstock and Hydrogen. ACS Nano, 2011, 5, 7656-7661.	7.3	87
44	Oxidative Doping Renders Graphene Hydrophilic, Facilitating Its Use As a Support in Biological TEM. Nano Letters, 2011, 11, 4319-4323.	4.5	52
45	Transfer of CVD-Grown Monolayer Graphene onto Arbitrary Substrates. ACS Nano, 2011, 5, 6916-6924.	7.3	1,258
46	Broadband microwave and time-domain terahertz spectroscopy of chemical vapor deposition grown graphene. Journal of Applied Physics, 2011, 110, 083510.	1.1	28
47	Probing Layer Number and Stacking Order of Fewâ€Layer Graphene by Raman Spectroscopy. Small, 2010, 6, 195-200.	5.2	650
48	Gold on graphene as a substrate for surface enhanced Raman scattering study. Applied Physics Letters, 2010, 97, .	1.5	81