

Jun Hua Meng

List of Publications by Year in descending order

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31
papers

3,852
citations

304368

22
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433756

31
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docs citations

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times ranked

6463
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced electron extraction using SnO ₂ for high-efficiency planar-structure HC(NH ₂) ₂ PbI ₃ -based perovskite solar cells. <i>Nature Energy</i> , 2017, 2, .	19.8	1,633
2	Efficient green light-emitting diodes based on quasi-two-dimensional composition and phase engineered perovskite with surface passivation. <i>Nature Communications</i> , 2018, 9, 570.	5.8	763
3	Large cation ethylammonium incorporated perovskite for efficient and spectra stable blue light-emitting diodes. <i>Nature Communications</i> , 2020, 11, 4165.	5.8	217
4	High-performance deep ultraviolet photodetectors based on few-layer hexagonal boron nitride. <i>Nanoscale</i> , 2018, 10, 5559-5565.	2.8	144
5	A high-performance photodetector based on an inorganic perovskite-ZnO heterostructure. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6115-6122.	2.7	107
6	Highly efficient and stable planar heterojunction perovskite solar cells via a low temperature solution process. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12133-12138.	5.2	86
7	Aligned Growth of Millimeter-Size Hexagonal Boron Nitride Single-Crystal Domains on Epitaxial Nickel Thin Film. <i>Small</i> , 2017, 13, 1604179.	5.2	76
8	Synthesis of Large-Sized Single-Crystal Hexagonal Boron Nitride Domains on Nickel Foils by Ion Beam Sputtering Deposition. <i>Advanced Materials</i> , 2015, 27, 8109-8115.	11.1	74
9	Controlled Growth of Few-Layer Hexagonal Boron Nitride on Copper Foils Using Ion Beam Sputtering Deposition. <i>Small</i> , 2015, 11, 1542-1547.	5.2	70
10	Synthesis of in-plane and stacked graphene/hexagonal boron nitride heterostructures by combining with ion beam sputtering deposition and chemical vapor deposition. <i>Nanoscale</i> , 2015, 7, 16046-16053.	2.8	68
11	Effects of Organic Cations on the Structure and Performance of Quasi-Two-Dimensional Perovskite-Based Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2892-2897.	2.1	56
12	Catalyst-free growth of two-dimensional hexagonal boron nitride few-layers on sapphire for deep ultraviolet photodetectors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14999-15006.	2.7	53
13	Selective Direct Growth of Atomic Layered HfS ₂ on Hexagonal Boron Nitride for High Performance Photodetectors. <i>Chemistry of Materials</i> , 2018, 30, 3819-3826.	3.2	51
14	Epitaxial growth of HfS ₂ on sapphire by chemical vapor deposition and application for photodetectors. <i>2D Materials</i> , 2017, 4, 031012.	2.0	43
15	Large-Area Synthesis of Layered HfS ₂ (1 $\bar{1}$) _x Se ₂ _x Alloys with Fully Tunable Chemical Compositions and Bandgaps. <i>Advanced Materials</i> , 2018, 30, e1803285.	11.1	41
16	Interface Engineering of High-Performance Perovskite Photodetectors Based on PVP/SnO ₂ Electron Transport Layer. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6505-6512.	4.0	37
17	Deep Ultraviolet Photodetectors Based on Carbon-Doped Two-Dimensional Hexagonal Boron Nitride. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27361-27367.	4.0	37
18	Two-dimensional hexagonal boron-carbon-nitrogen atomic layers. <i>Nanoscale</i> , 2019, 11, 10454-10462.	2.8	34

#	ARTICLE	IF	CITATIONS
19	Recent progress in synthesis, properties, and applications of hexagonal boron nitride-based heterostructures. <i>Nanotechnology</i> , 2019, 30, 074003.	1.3	31
20	Epitaxial Liftoff of Wafer-Scale VO ₂ Nanomembranes for Flexible, Ultrasensitive Tactile Sensors. <i>Advanced Materials Technologies</i> , 2019, 4, 1800695.	3.0	30
21	Compositional Engineering of Mixed-Cation Lead Mixed-Halide Perovskites for High-Performance Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28005-28012.	4.0	27
22	Low-Temperature Direct Growth of Few-Layer Hexagonal Boron Nitride on Catalyst-Free Sapphire Substrates. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7004-7011.	4.0	24
23	Direct growth of hexagonal boron nitride films on dielectric sapphire substrates by pulsed laser deposition for optoelectronic applications. <i>Fundamental Research</i> , 2021, 1, 677-683.	1.6	23
24	Remote heteroepitaxy of atomic layered hafnium disulfide on sapphire through hexagonal boron nitride. <i>Nanoscale</i> , 2019, 11, 9310-9318.	2.8	20
25	Growth and characteristics of In^{2+} -Ga ₂ O ₃ thin films on sapphire (0001) by low pressure chemical vapour deposition. <i>Vacuum</i> , 2021, 189, 110253.	1.6	19
26	Enhanced efficiency in polymer solar cells via hydrogen plasma treatment of ZnO electron transport layers. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3719-3725.	5.2	16
27	Enhanced performance of polymer solar cells based on P3HT:PCBM via incorporating Au nanoparticles prepared by the micellar method. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 10760-10767.	1.1	14
28	Epitaxial integration of tetragonal BiFeO ₃ with silicon for nonvolatile memory applications. <i>Journal of Crystal Growth</i> , 2017, 459, 178-184.	0.7	7
29	Recent progress of boron nitrides. , 2019, , 347-419.		7
30	Trace amount of niobium doped In^{2+} -Ga ₂ O ₃ thin films on sapphire (0001) by low pressure chemical vapour deposition. <i>Vacuum</i> , 2021, 189, 110253.	1.4	7
31	Controlled Growth of Unidirectionally Aligned Hexagonal Boron Nitride Domains on Single Crystal Ni (111)/MgO Thin Films. <i>Crystal Growth and Design</i> , 2019, 19, 453-459.	1.4	3