

Xiang Chen

List of Publications by Year in descending order

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48
papers

2,664
citations

201575

27
h-index

233338

45
g-index

48
all docs

48
docs citations

48
times ranked

4878
citing authors

#	ARTICLE	IF	CITATIONS
1	Creating a Ferromagnetic Ground State with T_c Above Room Temperature in a Paramagnetic Alloy through Non-equilibrium Nanostructuring. <i>Advanced Materials</i> , 2022, 34, e2108793.	11.1	3
2	A mixed-dimensional WS ₂ /GaSb heterojunction for high-performance p-n diodes and junction field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1511-1516.	2.7	1
3	High-Throughput Discovery and Investigation of Auxetic Two-Dimensional Crystals. <i>Chemistry of Materials</i> , 2022, 34, 4344-4354.	3.2	6
4	Transition Metal Dichalcogenides for Sensing and Oncotherapy: Status, Challenges, and Perspective. <i>Advanced Functional Materials</i> , 2021, 31, 2004408.	7.8	49
5	Large-area synthesis of transition metal dichalcogenides via CVD and solution-based approaches and their device applications. <i>Nanoscale</i> , 2021, 13, 615-633.	2.8	44
6	Enhancing the high temperature oxidation behavior of Cr ₂ AlC coatings by reducing grain boundary nanoporosity. <i>Materials Research Letters</i> , 2021, 9, 127-133.	4.1	13
7	Achieving ultra-strong Magnesium-lithium alloys by low-strain rotary swaging. <i>Materials Research Letters</i> , 2021, 9, 255-262.	4.1	48
8	Lattice Strain Leads to High Thermoelectric Performance in Polycrystalline SnSe. <i>ACS Nano</i> , 2021, 15, 8204-8215.	7.3	66
9	Advanced Devices for Tumor Diagnosis and Therapy. <i>Small</i> , 2021, 17, 2100003.	5.2	14
10	Nano-Gradient Materials Prepared by Rotary Swaging. <i>Nanomaterials</i> , 2021, 11, 2223.	1.9	12
11	Directed graph attention neural network utilizing 3D coordinates for molecular property prediction. <i>Computational Materials Science</i> , 2021, 200, 110761.	1.4	11
12	A wafer-scale van der Waals dielectric made from an inorganic molecular crystal film. <i>Nature Electronics</i> , 2021, 4, 906-913.	13.1	86
13	DFT coupled with NEGF study of structural, electronic and transport properties of two-dimensional InOBr. <i>Vacuum</i> , 2020, 182, 109745.	1.6	1
14	High-performance vertical field-effect transistors based on all-inorganic perovskite microplatelets. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12632-12637.	2.7	16
15	High-performance monolayer Na ₃ Sb shrinking transistors: a DFT-NEGF study. <i>Nanoscale</i> , 2020, 12, 18931-18937.	2.8	11
16	Solution-gated transistors of two-dimensional materials for chemical and biological sensors: status and challenges. <i>Nanoscale</i> , 2020, 12, 11364-11394.	2.8	41
17	Semiconducting quantum dots: Modification and applications in biomedical science. <i>Science China Materials</i> , 2020, 63, 1631-1650.	3.5	33
18	Biodegradable and bioabsorbable sensors based on two-dimensional materials. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1082-1092.	2.9	30

#	ARTICLE	IF	CITATIONS
19	Stacking-controllable interlayer coupling and symmetric configuration of multilayered MoS ₂ . NPG Asia Materials, 2018, 10, e468-e468.	3.8	90
20	Transient SHG Imaging on Ultrafast Carrier Dynamics of MoS ₂ Nanosheets. Advanced Materials, 2018, 30, e1705190.	11.1	23
21	Surface-Functionalization-Mediated Direct Transfer of Molybdenum Disulfide for Large-Area Flexible Devices. Advanced Functional Materials, 2018, 28, 1706231.	7.8	66
22	Carrier Dynamics: Transient SHG Imaging on Ultrafast Carrier Dynamics of MoS ₂ Nanosheets (Adv. Tj ETQq0 0 0 rgBT/Overlock 10 Tf 5	11.1	0
23	CVD-grown monolayer MoS ₂ in bioabsorbable electronics and biosensors. Nature Communications, 2018, 9, 1690.	5.8	155
24	Orientation-dependent optical characterization of atomically thin transition metal ditellurides. Nanoscale, 2018, 10, 21978-21984.	2.8	24
25	Degradation behaviors and mechanisms of MoS ₂ crystals relevant to bioabsorbable electronics. NPG Asia Materials, 2018, 10, 810-820.	3.8	36
26	Local Strain Induced Band Gap Modulation and Photoluminescence Enhancement of Multilayer Transition Metal Dichalcogenides. Chemistry of Materials, 2017, 29, 5124-5133.	3.2	97
27	Tactile Sensors: MoS ₂ -Based Tactile Sensor for Electronic Skin Applications (Adv. Mater.) Tj ETQq1 1,0,784314 rgBT /C	11.1	5
28	Graphene-Based Flexible and Stretchable Electronics. Advanced Materials, 2016, 28, 4184-4202.	11.1	537
29	Lithography-free plasma-induced patterned growth of MoS ₂ and its heterojunction with graphene. Nanoscale, 2016, 8, 15181-15188.	2.8	68
30	Highly Flexible Hybrid CMOS Inverter Based on Si Nanomembrane and Molybdenum Disulfide. Small, 2016, 12, 5720-5727.	5.2	46
31	Flexible Electronics: Highly Flexible Hybrid CMOS Inverter Based on Si Nanomembrane and Molybdenum Disulfide (Small 41/2016). Small, 2016, 12, 5650-5650.	5.2	0
32	MoS ₂ -Based Tactile Sensor for Electronic Skin Applications. Advanced Materials, 2016, 28, 2556-2562.	11.1	351
33	Large-scale patterned ZnO nanorod arrays for efficient photoelectrochemical water splitting. Applied Surface Science, 2015, 339, 122-127.	3.1	44
34	Three-Dimensional Ordered ZnO/Cu ₂ O Nanoheterojunctions for Efficient Metal-Oxide Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 3216-3223.	4.0	74
35	A self-powered ultraviolet photodetector based on solution-processed p-NiO/n-ZnO nanorod array heterojunction. RSC Advances, 2015, 5, 5976-5981.	1.7	97
36	Tunable channel width of a UV-gate field effect transistor based on ZnO micro-nano wire. RSC Advances, 2014, 4, 18378.	1.7	14

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37	Self-powered ultraviolet photodetectors based on selectively grown ZnO nanowire arrays with thermal tuning performance. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9525.	1.3	48
38	Enhanced photoresponse of Cu ₂ O/ZnO heterojunction with piezo-modulated interface engineering. <i>Nano Research</i> , 2014, 7, 860-868.	5.8	93
39	Design of efficient dye-sensitized solar cells with patterned ZnO@ZnS core-shell nanowire array photoanodes. <i>Nanoscale</i> , 2014, 6, 4691-4697.	2.8	38
40	High sensitivity, fast speed and self-powered ultraviolet photodetectors based on ZnO micro/nanowire networks. <i>Progress in Natural Science: Materials International</i> , 2014, 24, 1-5.	1.8	28
41	Simple fabrication of a ZnO nanorod array UV detector with a high performance. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 61, 180-184.	1.3	45
42	Low-voltage blue light emission from n-ZnO/p-GaN heterojunction formed by RF magnetron sputtering method. <i>Current Applied Physics</i> , 2014, 14, 345-348.	1.1	41
43	ZnO nanowire array ultraviolet photodetectors with self-powered properties. <i>Current Applied Physics</i> , 2013, 13, 165-169.	1.1	81
44	Facile fabrication of large-scale patterned ZnO nanorod arrays with tunable arrangement, period and morphology. <i>CrystEngComm</i> , 2013, 15, 8022.	1.3	19
45	Ultraviolet and visible photoresponse properties of a ZnO/Si heterojunction at zero bias. <i>RSC Advances</i> , 2013, 3, 17682.	1.7	24
46	High-throughput fabrication of large-scale highly ordered ZnO nanorod arrays via three-beam interference lithography. <i>CrystEngComm</i> , 2013, 15, 8416.	1.3	13
47	SOLUTION PROCESSED ZNO NANOROD ARRAYS/PFO HYBRID HETEROJUNCTION FOR LIGHT EMITTING. , 2012, , .		0
48	Improving microstructure and wear resistance of plasma clad Fe-based alloy coating by a mechanical vibration technique during cladding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 528, 397-401.	2.6	22