Xiang Chen

List of Publications by Year in descending order

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48 papers	2,664 citations	201674 27 h-index	233421 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 Nonâ€Equilibrium Nanostructuring. Advanced Materials, 2022, 34, e2108793.	21.0	3
2	A mixed-dimensional WS2/GaSb heterojunction for high-performance pâ€“n diodes and junction field-effect transistors. Journal of Materials Chemistry C, 2022, 10, 1511-1516.	5.5	1
3	High-Throughput Discovery and Investigation of Auxetic Two-Dimensional Crystals. Chemistry of Materials, 2022, 34, 4344-4354.	6.7	6
4	Transition Metal Dichalcogenides for Sensing and Oncotherapy: Status, Challenges, and Perspective. Advanced Functional Materials, 2021, 31, 2004408.	14.9	49
5	Large-area synthesis of transition metal dichalcogenides via CVD and solution-based approaches and their device applications. Nanoscale, 2021, 13, 615-633.	5.6	44
6	Enhancing the high temperature oxidation behavior of Cr₂AlC coatings by reducing grain boundary nanoporosity. Materials Research Letters, 2021, 9, 127-133.	8.7	13
7	Achieving ultra-strong Magnesiumâ€“lithium alloys by low-strain rotary swaging. Materials Research Letters, 2021, 9, 255-262.	8.7	48
8	Lattice Strain Leads to High Thermoelectric Performance in Polycrystalline SnSe. ACS Nano, 2021, 15, 8204-8215.	14.6	66
9	Advanced Devices for Tumor Diagnosis and Therapy. Small, 2021, 17, 2100003.	10.0	14
10	Nano-Gradient Materials Prepared by Rotary Swaging. Nanomaterials, 2021, 11, 2223.	4.1	12
11	Directed graph attention neural network utilizing 3D coordinates for molecular property prediction. Computational Materials Science, 2021, 200, 110761.	3.0	11
12	A wafer-scale van der Waals dielectric made from an inorganic molecular crystal film. Nature Electronics, 2021, 4, 906-913.	26.0	86
13	DFT coupled with NEGF study of structural, electronic and transport properties of two-dimensional InOBr. Vacuum, 2020, 182, 109745.	3.5	1
14	High-performance vertical field-effect transistors based on all-inorganic perovskite microplatelets. Journal of Materials Chemistry C, 2020, 8, 12632-12637.	5.5	16
15	High-performance monolayer Na₃Sb shrinking transistors: a DFT-NEGF study. Nanoscale, 2020, 12, 18931-18937.	5.6	11
16	Solution-gated transistors of two-dimensional materials for chemical and biological sensors: status and challenges. Nanoscale, 2020, 12, 11364-11394.	5.6	41
17	Semiconducting quantum dots: Modification and applications in biomedical science. Science China Materials, 2020, 63, 1631-1650.	6.3	33
18	Biodegradable and bioabsorbable sensors based on two-dimensional materials. Journal of Materials Chemistry B, 2020, 8, 1082-1092.	5.8	30

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19	Stacking-controllable interlayer coupling and symmetric configuration of multilayered MoS2. NPG Asia Materials, 2018, 10, e468-e468.	7.9	90
20	Transient SHG Imaging on Ultrafast Carrier Dynamics of MoS₂ Nanosheets. Advanced Materials, 2018, 30, e1705190.	21.0	23
21	Surfaceâ€Functionalizationâ€Mediated Direct Transfer of Molybdenum Disulfide for Largeâ€Area Flexible Devices. Advanced Functional Materials, 2018, 28, 1706231.	14.9	66
22	Carrier Dynamics: Transient SHG Imaging on Ultrafast Carrier Dynamics of MoS2 Nanosheets (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	21.0	0
23	CVD-grown monolayer MoS2 in bioabsorbable electronics and biosensors. Nature Communications, 2018, 9, 1690.	12.8	155
24	Orientation-dependent optical characterization of atomically thin transition metal ditellurides. Nanoscale, 2018, 10, 21978-21984.	5.6	24
25	Degradation behaviors and mechanisms of MoS2 crystals relevant to bioabsorbable electronics. NPG Asia Materials, 2018, 10, 810-820.	7.9	36
26	Local Strain Induced Band Gap Modulation and Photoluminescence Enhancement of Multilayer Transition Metal Dichalcogenides. Chemistry of Materials, 2017, 29, 5124-5133.	6.7	97
27	Tactile Sensors: MoS₂â€Based Tactile Sensor for Electronic Skin Applications (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /O	21.0	5
28	Grapheneâ€Based Flexible and Stretchable Electronics. Advanced Materials, 2016, 28, 4184-4202.	21.0	537
29	Lithography-free plasma-induced patterned growth of MoS₂and its heterojunction with graphene. Nanoscale, 2016, 8, 15181-15188.	5.6	68
30	Highly Flexible Hybrid CMOS Inverter Based on Si Nanomembrane and Molybdenum Disulfide. Small, 2016, 12, 5720-5727.	10.0	46
31	Flexible Electronics: Highly Flexible Hybrid CMOS Inverter Based on Si Nanomembrane and Molybdenum Disulfide (Small 41/2016). Small, 2016, 12, 5650-5650.	10.0	0
32	MoS₂â€Based Tactile Sensor for Electronic Skin Applications. Advanced Materials, 2016, 28, 2556-2562.	21.0	351
33	Large-scale patterned ZnO nanorod arrays for efficient photoelectrochemical water splitting. Applied Surface Science, 2015, 339, 122-127.	6.1	44
34	Three-Dimensional Ordered ZnO/Cu₂O Nanoheterojunctions for Efficient Metalâ€“Oxide Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 3216-3223.	8.0	74
35	A self-powered ultraviolet photodetector based on solution-processed p-NiO/n-ZnO nanorod array heterojunction. RSC Advances, 2015, 5, 5976-5981.	3.6	97
36	Tunable channel width of a UV-gate field effect transistor based on ZnO micro-nano wire. RSC Advances, 2014, 4, 18378.	3.6	14

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37	Self-powered ultraviolet photodetectors based on selectively grown ZnO nanowire arrays with thermal tuning performance. Physical Chemistry Chemical Physics, 2014, 16, 9525.	2.8	48
38	Enhanced photoresponse of Cu2O/ZnO heterojunction with piezo-modulated interface engineering. Nano Research, 2014, 7, 860-868.	10.4	93
39	Design of efficient dye-sensitized solar cells with patterned ZnOâ€“ZnS coreâ€“shell nanowire array photoanodes. Nanoscale, 2014, 6, 4691-4697.	5.6	38
40	High sensitivity, fast speed and self-powered ultraviolet photodetectors based on ZnO micro/nanowire networks. Progress in Natural Science: Materials International, 2014, 24, 1-5.	4.4	28
41	Simple fabrication of a ZnO nanorod array UV detector with a high performance. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 61, 180-184.	2.7	45
42	Low-voltage blue light emission from n-ZnO/p-GaN heterojunction formed by RF magnetron sputtering method. Current Applied Physics, 2014, 14, 345-348.	2.4	41
43	ZnO nanowire array ultraviolet photodetectors with self-powered properties. Current Applied Physics, 2013, 13, 165-169.	2.4	81
44	Facile fabrication of large-scale patterned ZnO nanorod arrays with tunable arrangement, period and morphology. CrystEngComm, 2013, 15, 8022.	2.6	19
45	Ultraviolet and visible photoresponse properties of a ZnO/Si heterojunction at zero bias. RSC Advances, 2013, 3, 17682.	3.6	24
46	High-throughput fabrication of large-scale highly ordered ZnO nanorod arrays via three-beam interference lithography. CrystEngComm, 2013, 15, 8416.	2.6	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. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 397-401.	5.6	22