Yichi Zhang

List of Publications by Year
in descending order

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28 papers	3,311 citations	257357 24 h-index	454834 30 g-index
31 all docs	31 docs citations	31 times ranked	6036 citing authors

#	Article	IF	Citations
1	Strain-Free Layered Semiconductors for 2D Transistors with On-State Current Density Exceeding 1.3 mA Î¼m^{â€“1}. Nano Letters, 2022, 22, 3770-3776.	4.5	17
2	A native oxide high-Îº gate dielectric for two-dimensional electronics. Nature Electronics, 2020, 3, 473-478.	13.1	141
3	Uniform High-k Amorphous Native Oxide Synthesized by Oxygen Plasma for Top-Gated Transistors. Nano Letters, 2020, 20, 7469-7475.	4.5	37
4	High-Mobility Flexible Oxyselenide Thin-Film Transistors Prepared by a Solution-Assisted Method. Journal of the American Chemical Society, 2020, 142, 2726-2731.	6.6	47
5	Wafer-Scale Growth of Single-Crystal 2D Semiconductor on Perovskite Oxides for High-Performance Transistors. Nano Letters, 2019, 19, 2148-2153.	4.5	82
6	Low Residual Carrier Concentration and High Mobility in 2D Semiconducting Bi₂O₂Se. Nano Letters, 2019, 19, 197-202.	4.5	95
7	Flexible Photodetectors: Lowâ€Temperature Heteroepitaxy of 2D PbI₂/Graphene for Largeâ€Area Flexible Photodetectors (Adv. Mater. 36/2018). Advanced Materials, 2018, 30, 1870271.	11.1	4
8	Lowâ€Temperature Heteroepitaxy of 2D PbI₂/Graphene for Largeâ€Area Flexible Photodetectors. Advanced Materials, 2018, 30, e1803194.	11.1	93
9	Heterostructured Approaches to Efficient Thermoelectric Materials. Chemistry of Materials, 2014, 26, 837-848.	3.2	86
10	Hot Carrier Filtering in Solution Processed Heterostructures: A Paradigm for Improving Thermoelectric Efficiency. Advanced Materials, 2014, 26, 2755-2761.	11.1	58
11	Glycerol Hydrogenolysis to Propylene Glycol and Ethylene Glycol on Zirconia Supported Noble Metal Catalysts. ACS Catalysis, 2013, 3, 2112-2121.	5.5	116
12	Influence of Ni nanoparticle addition and spark plasma sintering on the TiNiSnâ€“Ni system: Structure, microstructure, and thermoelectric properties. Solid State Sciences, 2013, 26, 16-22.	1.5	15
13	Improving the thermoelectric properties of half-Heusler TiNiSn through inclusion of a second full-Heusler phase: microwave preparation and spark plasma sintering of TiNi1+xSn. Physical Chemistry Chemical Physics, 2013, 15, 6990.	1.3	112
14	Highly Ordered Mesoporous Crystalline MoSe₂ Material with Efficient Visibleâ€Lightâ€Driven Photocatalytic Activity and Enhanced Lithium Storage Performance. Advanced Functional Materials, 2013, 23, 1832-1838.	7.8	285
15	Silicon-Based Thermoelectrics Made from a Boron-Doped Silicon Dioxide Nanocomposite. Chemistry of Materials, 2013, 25, 4867-4873.	3.2	24
16	Rapid Microwave Preparation of Thermoelectric TiNiSn and TiCoSb Half-Heusler Compounds. Chemistry of Materials, 2012, 24, 2558-2565.	3.2	126
17	Silver-Based Intermetallic Heterostructures in Sb₂Te₃ Thick Films with Enhanced Thermoelectric Power Factors. Nano Letters, 2012, 12, 1075-1080.	4.5	98
18	Mesoporous Multifunctional Upconversion Luminescent and Magnetic â€œNanorattleâ€•Materials for Targeted Chemotherapy. Nano Letters, 2012, 12, 61-67.	4.5	360

#	Article	IF	Citations
19	A Mesoporous Anisotropic nâ€Type Bi₂Te₃ Monolith with Low Thermal Conductivity as an Efficient Thermoelectric Material. Advanced Materials, 2012, 24, 5065-5070.	11.1	80
20	Spatially heterogeneous carbon-fiber papers as surface dendrite-free current collectors for lithium deposition. Nano Today, 2012, 7, 10-20.	6.2	157
21	Container Effect in Nanocasting Synthesis of Mesoporous Metal Oxides. Journal of the American Chemical Society, 2011, 133, 14542-14545.	6.6	167
22	Surfactant-Free Synthesis of Bi₂Te₃â˜Te Microâ˜Nano Heterostructure with Enhanced Thermoelectric Figure of Merit. ACS Nano, 2011, 5, 3158-3165.	7.3	104
23	Rareâ€Earth Upconverting Nanobarcodes for Multiplexed Biological Detection. Small, 2011, 7, 1972-1976.	5.2	96
24	Fluorescence Upconversion Microbarcodes for Multiplexed Biological Detection: Nucleic Acid Encoding. Advanced Materials, 2011, 23, 3775-3779.	11.1	169
25	Selective Hydrogenolysis of Glycerol to Propylene Glycol on Cuâ€“ZnO Composite Catalysts: Structural Requirements and Reaction Mechanism. Chemistry - an Asian Journal, 2010, 5, 1100-1111.	1.7	94
26	High performance separation of aerosol sprayed mesoporous TiO2 sub-microspheres from aggregates via density gradient centrifugation. Journal of Materials Chemistry, 2010, 20, 4162.	6.7	18
27	Fabrication of Ag@SiO₂@Y₂O₃:Er Nanostructures for Bioimaging: Tuning of the Upconversion Fluorescence with Silver Nanoparticles. Journal of the American Chemical Society, 2010, 132, 2850-2851.	6.6	463
28	Low-Temperature Pseudomorphic Transformation of Ordered Hierarchical Macro-mesoporous SiO₂/C Nanocomposite to SiC via Magnesiothermic Reduction. Journal of the American Chemical Society, 2010, 132, 5552-5553.	6.6	123