

Ting-Ting Xu

List of Publications by Year in descending order

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56
papers

4,108
citations

136950

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149698

56
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57
all docs

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docs citations

57
times ranked

5482
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Efficiency and Air-Stable Perovskite Quantum Dots Light-Emitting Diodes with an All-Inorganic Heterostructure. <i>Nano Letters</i> , 2017, 17, 313-321.	9.1	402
2	Strategy of Solution-Processed All-Inorganic Heterostructure for Humidity/Temperature-Stable Perovskite Quantum Dot Light-Emitting Diodes. <i>ACS Nano</i> , 2018, 12, 1462-1472.	14.6	331
3	In Situ Fabrication of 2D WS ₂ /Si Type-II Heterojunction for Self-Powered Broadband Photodetector with Response up to Mid-Infrared. <i>ACS Photonics</i> , 2019, 6, 565-572.	6.6	221
4	In-situ fabrication of PtSe ₂ /GaN heterojunction for self-powered deep ultraviolet photodetector with ultrahigh current on/off ratio and detectivity. <i>Nano Research</i> , 2019, 12, 183-189.	10.4	189
5	High-performance perovskite photodetectors based on solution-processed all-inorganic CsPbBr ₃ thin films. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8355-8360.	5.5	182
6	High-performance self-powered deep ultraviolet photodetector based on MoS ₂ /GaN p-n heterojunction. <i>Journal of Materials Chemistry C</i> , 2018, 6, 299-303.	5.5	178
7	A self-powered solar-blind photodetector based on a MoS ₂ /In ₂ Ga ₂ O ₃ heterojunction. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10982-10986.	5.5	166
8	High-efficiency and air-stable photodetectors based on lead-free double perovskite Cs ₂ AgBiBr ₆ thin films. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7982-7988.	5.5	150
9	Design of 2D Layered PtSe ₂ Heterojunction for the High-Performance, Room-Temperature, Broadband, Infrared Photodetector. <i>ACS Photonics</i> , 2018, 5, 3820-3827.	6.6	144
10	Sodium Doping-Enhanced Emission Efficiency and Stability of CsPbBr ₃ Nanocrystals for White Light-Emitting Devices. <i>Chemistry of Materials</i> , 2019, 31, 3917-3928.	6.7	141
11	The ultra-high NO ₂ response of ultra-thin WS ₂ nanosheets synthesized by hydrothermal and calcination processes. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 789-796.	7.8	130
12	Localized Surface Plasmon Enhanced All-Inorganic Perovskite Quantum Dot Light-Emitting Diodes Based on a Coaxial Core/Shell Heterojunction Architecture. <i>Advanced Functional Materials</i> , 2018, 28, 1707031.	14.9	125
13	Advanced carbon nanostructures for future high performance sodium metal anodes. <i>Energy Storage Materials</i> , 2020, 25, 811-826.	18.0	114
14	3D carbon foam-supported WS ₂ nanosheets for cable-shaped flexible sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10813-10824.	10.3	112
15	High-performance photodetectors for visible and near-infrared lights based on individual WS ₂ nanotubes. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	111
16	Controllable Vapor-Phase Growth of Inorganic Perovskite Microwire Networks for High-Efficiency and Temperature-Stable Photodetectors. <i>ACS Photonics</i> , 2018, 5, 2524-2532.	6.6	100
17	Highly Stable Perovskite Photodetector Based on Vapor-Processed Micrometer-Scale CsPbBr ₃ Microplatelets. <i>Chemistry of Materials</i> , 2018, 30, 6744-6755.	6.7	89
18	A self-powered high-performance photodetector based on a MoS ₂ /GaAs heterojunction with high polarization sensitivity. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3817-3821.	5.5	83

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19	3D printed rGO/CNT microlattice aerogel for a dendrite-free sodium metal anode. Journal of Materials Chemistry A, 2020, 8, 19843-19854.	10.3	82
20	A room-temperature near-infrared photodetector based on a MoS ₂ /CdTe p-n heterojunction with a broadband response up to 1700 nm. Journal of Materials Chemistry C, 2018, 6, 4861-4865.	5.5	81
21	High-response NO ₂ resistive gas sensor based on bilayer MoS ₂ grown by a new two-step chemical vapor deposition method. Journal of Alloys and Compounds, 2017, 725, 253-259.	5.5	80
22	Enhanced sodium storage kinetics by volume regulation and surface engineering via rationally designed hierarchical porous FeP@C/rGO. Nanoscale, 2020, 12, 4341-4351.	5.6	80
23	Boosting Sodium Storage of Fe _{1-x} S/MoS ₂ Composite via Heterointerface Engineering. Nano-Micro Letters, 2019, 11, 80.	27.0	77
24	High-performance MoS ₂ /Si heterojunction broadband photodetectors from deep ultraviolet to near infrared. Optics Letters, 2017, 42, 3335.	3.3	64
25	Ultrastable Lead-Free Double Perovskite Photodetectors with Imaging Capability. Advanced Materials Interfaces, 2019, 6, 1900188.	3.7	62
26	Near-infrared random lasing realized in a perovskite CH ₃ NH ₃ PbI ₃ thin film. Journal of Materials Chemistry C, 2016, 4, 8373-8379.	5.5	57
27	Porous NiO hollow quasi-nanospheres derived from a new metal-organic framework template as high-performance anode materials for lithium ion batteries. Ionics, 2017, 23, 3273-3280.	2.4	53
28	Enhanced H ₂ S gas-sensing performance of Zn ₂ SnO ₄ hierarchical quasi-microspheres constructed from nanosheets and octahedra. Journal of Hazardous Materials, 2019, 361, 49-55.	12.4	52
29	Vapor-Assisted Solution Approach for High-Quality Perovskite CH ₃ NH ₃ PbBr ₃ Thin Films for High-Performance Green Light-Emitting Diode Applications. ACS Applied Materials & Interfaces, 2017, 9, 42893-42904.	8.0	46
30	Electrical transport properties of individual WS ₂ nanotubes and their dependence on water and oxygen absorption. Applied Physics Letters, 2012, 101, .	3.3	42
31	Defect-Engineered 3D hierarchical NiMo ₃ S ₄ nanoflowers as bifunctional electrocatalyst for overall water splitting. Journal of Colloid and Interface Science, 2022, 607, 1876-1887.	9.4	40
32	Polarized emission effect realized in CH ₃ NH ₃ PbI ₃ perovskite nanocrystals. Journal of Materials Chemistry C, 2017, 5, 8699-8706.	5.5	37
33	Hole-Injection Layer-Free Perovskite Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 32289-32297.	8.0	28
34	Mechanical properties of individual InAs nanowires studied by tensile tests. Applied Physics Letters, 2014, 104, .	3.3	24
35	Dendrite-Free Li Metal Plating/Stripping Onto Three-Dimensional Vertical-Graphene@Carbon-Cloth Host. Frontiers in Chemistry, 2019, 7, 714.	3.6	24
36	Synergistically enhanced sodium/potassium ion storage performance of SnSb alloy particles confined in three-dimensional carbon framework. Ionics, 2020, 26, 5019-5028.	2.4	23

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37	Explicating the Sodium Storage Kinetics and Redox Mechanism of Highly Pseudocapacitive Binary Transition Metal Sulfide via Operando Techniques and Ab Initio Evaluation. <i>Small Methods</i> , 2019, 3, 1900112.	8.6	21
38	3D Mesoporous Ni(OH) ₂ /WS ₂ Nanofibers with Highly Enhanced Performances for Hybrid Supercapacitors. <i>Energy Technology</i> , 2019, 7, 1800476.	3.8	21
39	Improved Electrical Transport and Electroluminescence Properties of p-ZnO/n-Si Heterojunction via Introduction of Patterned SiO ₂ Intermediate Layer. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4504-4510.	3.1	18
40	Enhanced H ₂ S Gas-Sensing Performance of Zn ₂ SnO ₄ Lamellar Micro-Spheres. <i>Frontiers in Chemistry</i> , 2018, 6, 165.	3.6	18
41	Urchin-Like Ni ₂ /3Co ₁ /3(CO ₃) ₁ /2(OH)·0.11H ₂ O for High-Performance Supercapacitors. <i>Frontiers in Chemistry</i> , 2018, 6, 431.	3.6	16
42	Micro-structured lepidocrocite-type H _{1.07} Ti _{1.73} O ₄ as anode for lithium-ion batteries with an ultrahigh rate and long-term cycling performance. <i>Rare Metals</i> , 2021, 40, 1391-1401.	7.1	12
43	Fabricating Na/In/C Composite Anode with Natrophilic Na-In Alloy Enables Superior Na Ion Deposition in the EC/PC Electrolyte. <i>Nano-Micro Letters</i> , 2022, 14, 23.	27.0	11
44	Self-healing of bended WS ₂ nanotubes and its effect on the nanotube's properties. <i>Nanoscale</i> , 2012, 4, 7825.	5.6	9
45	Transmission electron microscopy assisted <i>in-situ</i> joule heat dissipation study of individual InAs nanowires. <i>Applied Physics Letters</i> , 2013, 103, 193112.	3.3	9
46	Allopatric divergence, demographic history, and conservation implications of an endangered conifer <i>Cupressus chengiana</i> in the eastern Qinghai-Tibet Plateau. <i>Tree Genetics and Genomes</i> , 2017, 13, 1.	1.6	9
47	Vertically aligned 1T-phase PtSe ₂ on flexible carbon cloth for efficient and stable hydrogen evolution reaction. <i>Journal of Materials Chemistry C</i> , 2021, 9, 9524-9531.	5.5	8
48	Template-assisted synthesis of ordered single crystal InN nanowires. <i>RSC Advances</i> , 2012, 2, 6806.	3.6	5
49	Controllable synthesis of Cs _x Pb _y Br _z -based perovskites by a polar solvent-triggered transformation method and its application as an invisible security ink. <i>Journal of Materials Science</i> , 2020, 55, 6826-6833.	3.7	5
50	Rational design of Fe-doped K _{0.8} Ti _{1.73} Li _{0.27} O ₄ @rGO as a high-rate and long-cycle-life anode for lithium-ion batteries. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 234002.	2.8	5
51	Fabrication of p-type ZnTe NW/In Schottky diodes for high-speed photodetectors. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1720-1725.	2.2	4
52	Luminescence: Localized Surface Plasmon Enhanced All-Inorganic Perovskite Quantum Dot Light-Emitting Diodes Based on Coaxial Core/Shell Heterojunction Architecture (Adv. Funct. Mater.)	8.8	4
53	Enhancing the NO sensing properties of the SnO ₂ nanowires sensors by Ar ⁺ O ₂ plasma modification. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 13897-13902.	2.2	2
54	Inducing Intermediates in Biotransformation of Natural Polyacetylene and A Novel Spiro- ¹³ -Lactone from Red Ginseng by Solid Co-Culture of Two Gut Chaetomium globosum and The Potential Bioactivity Modification by Oxidative Metabolism. <i>Molecules</i> , 2020, 25, 1216.	3.8	2

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55	Room-temperature excitonic emission with a phonon replica from graphene nanosheets deposited on Ni-nanocrystallites/Si-nanoporous pillar array. Royal Society Open Science, 2018, 5, 172238.	2.4	1
56	Energetic-Materials-Driven Synthesis of Graphene-Encapsulated Tin Oxide Nanoparticles for Sodium-Ion Batteries. Materials, 2021, 14, 2550.	2.9	0