

# Ting-Ting Xu

## List of Publications by Year in descending order

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56  
papers

4,108  
citations

136950

32  
h-index

149698

56  
g-index

57  
all docs

57  
docs citations

57  
times ranked

5482  
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect-Engineered 3D hierarchical NiMo <sub>3</sub> S <sub>4</sub> nanoflowers as bifunctional electrocatalyst for overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1876-1887.	9.4	40
2	Rational design of Fe-doped K <sub>0.8</sub> Ti <sub>1.73</sub> Li <sub>0.27</sub> O <sub>4</sub> @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
3	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
4	Micro-structured lepidocrocite-type H <sub>1.07</sub> Ti <sub>1.73</sub> O <sub>4</sub> 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
5	Energetic-Materials-Driven Synthesis of Graphene-Encapsulated Tin Oxide Nanoparticles for Sodium-Ion Batteries. <i>Materials</i> , 2021, 14, 2550.	2.9	0
6	Vertically aligned 1T-phase PtSe <sub>2</sub> 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
7	Advanced carbon nanostructures for future high performance sodium metal anodes. <i>Energy Storage Materials</i> , 2020, 25, 811-826.	18.0	114
8	Enhanced sodium storage kinetics by volume regulation and surface engineering <i>via</i> rationally designed hierarchical porous FeP@C/rGO. <i>Nanoscale</i> , 2020, 12, 4341-4351.	5.6	80
9	3D printed rGO/CNT microlattice aerogel for a dendrite-free sodium metal anode. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19843-19854.	10.3	82
10	Synergistically enhanced sodium/potassium ion storage performance of SnSb alloy particles confined in three-dimensional carbon framework. <i>Ionics</i> , 2020, 26, 5019-5028.	2.4	23
11	Inducing Intermediates in Biotransformation of Natural Polyacetylene and A Novel Spiro- <sup>13</sup> -Lactone from Red Ginseng by Solid Co-Culture of Two Gut <i>Chaetomium globosum</i> and The Potential Bioactivity Modification by Oxidative Metabolism. <i>Molecules</i> , 2020, 25, 1216.	3.8	2
12	Controllable synthesis of Cs <sub>x</sub> Pb <sub>y</sub> Br <sub>z</sub> -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
13	Enhanced H <sub>2</sub> S gas-sensing performance of Zn <sub>2</sub> SnO <sub>4</sub> hierarchical quasi-microspheres constructed from nanosheets and octahedra. <i>Journal of Hazardous Materials</i> , 2019, 361, 49-55.	12.4	52
14	Dendrite-Free Li Metal Plating/Stripping Onto Three-Dimensional Vertical-Graphene@Carbon-Cloth Host. <i>Frontiers in Chemistry</i> , 2019, 7, 714.	3.6	24
15	Boosting Sodium Storage of Fe <sub>1-x</sub> S/MoS <sub>2</sub> Composite via Heterointerface Engineering. <i>Nano-Micro Letters</i> , 2019, 11, 80.	27.0	77
16	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
17	Sodium Doping-Enhanced Emission Efficiency and Stability of CsPbBr <sub>3</sub> Nanocrystals for White Light-Emitting Devices. <i>Chemistry of Materials</i> , 2019, 31, 3917-3928.	6.7	141
18	Ultrastable Lead-Free Double Perovskite Photodetectors with Imaging Capability. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900188.	3.7	62

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19	A self-powered high-performance photodetector based on a MoS <sub>2</sub> /GaAs heterojunction with high polarization sensitivity. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3817-3821.	5.5	83
20	In-situ fabrication of PtSe <sub>2</sub> /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
21	3D Mesoporous Ni(OH) <sub>2</sub> /WS <sub>2</sub> Nanofibers with Highly Enhanced Performances for Hybrid Supercapacitors. <i>Energy Technology</i> , 2019, 7, 1800476.	3.8	21
22	In Situ Fabrication of 2D WS <sub>2</sub> /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
23	Localized Surface Plasmon Enhanced All-Inorganic Perovskite Quantum Dot Light-Emitting Diodes Based on Coaxial Core/Shell Heterojunction Architecture. <i>Advanced Functional Materials</i> , 2018, 28, 1707031.	14.9	125
24	A room-temperature near-infrared photodetector based on a MoS <sub>2</sub> /CdTe p-n heterojunction with a broadband response up to 1700 nm. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4861-4865.	5.5	81
25	The ultra-high NO <sub>2</sub> response of ultra-thin WS <sub>2</sub> nanosheets synthesized by hydrothermal and calcination processes. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 789-796.	7.8	130
26	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
27	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
28	High-performance self-powered deep ultraviolet photodetector based on MoS <sub>2</sub> /GaN p-n heterojunction. <i>Journal of Materials Chemistry C</i> , 2018, 6, 299-303.	5.5	178
29	A self-powered solar-blind photodetector based on a MoS <sub>2</sub> /I <sup>2</sup> -Ga <sub>2</sub> O <sub>3</sub> heterojunction. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10982-10986.	5.5	166
30	Urchin-Like Ni <sub>2</sub> /3Co <sub>1</sub> /3(CO <sub>3</sub> ) <sub>1</sub> /2(OH)·0.11H <sub>2</sub> O for High-Performance Supercapacitors. <i>Frontiers in Chemistry</i> , 2018, 6, 431.	3.6	16
31	Hole-Injection Layer-Free Perovskite Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 32289-32297.	8.0	28
32	Highly Stable Perovskite Photodetector Based on Vapor-Processed Micrometer-Scale CsPbBr <sub>3</sub> Microplatelets. <i>Chemistry of Materials</i> , 2018, 30, 6744-6755.	6.7	89
33	Room-temperature excitonic emission with a phonon replica from graphene nanosheets deposited on Ni-nanocrystallites/Si-nanoporous pillar array. <i>Royal Society Open Science</i> , 2018, 5, 172238.	2.4	1
34	High-efficiency and air-stable photodetectors based on lead-free double perovskite Cs <sub>2</sub> AgBiBr <sub>6</sub> thin films. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7982-7988.	5.5	150
35	Enhancing the NO sensing properties of the SnO <sub>2</sub> nanowires sensors by Ar/O <sub>2</sub> plasma modification. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 13897-13902.	2.2	2
36	Enhanced H <sub>2</sub> S Gas-Sensing Performance of Zn <sub>2</sub> SnO <sub>4</sub> Lamellar Micro-Spheres. <i>Frontiers in Chemistry</i> , 2018, 6, 165.	3.6	18

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37	3D carbon foam-supported WS <sub>2</sub> nanosheets for cable-shaped flexible sodium ion batteries. Journal of Materials Chemistry A, 2018, 6, 10813-10824.	10.3	112
38	Luminescence: Localized Surface Plasmon Enhanced All-Inorganic Perovskite Quantum Dot Light-Emitting Diodes Based on a Coaxial Core/Shell Heterojunction Architecture (Adv. Funct. Mater.)	10.3	107
39	Design of 2D Layered PtSe <sub>2</sub> Heterojunction for the High-Performance, Room-Temperature, Broadband, Infrared Photodetector. ACS Photonics, 2018, 5, 3820-3827.	6.6	144
40	High-response NO <sub>2</sub> resistive gas sensor based on bilayer MoS <sub>2</sub> grown by a new two-step chemical vapor deposition method. Journal of Alloys and Compounds, 2017, 725, 253-259.	5.5	80
41	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
42	High-Efficiency and Air-Stable Perovskite Quantum Dots Light-Emitting Diodes with an All-Inorganic Heterostructure. Nano Letters, 2017, 17, 313-321.	9.1	402
43	Allopatric divergence, demographic history, and conservation implications of an endangered conifer Cupressus chengiana in the eastern Qinghai-Tibet Plateau. Tree Genetics and Genomes, 2017, 13, 1.	1.6	9
44	Polarized emission effect realized in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite nanocrystals. Journal of Materials Chemistry C, 2017, 5, 8699-8706.	5.5	37
45	Vapor-Assisted Solution Approach for High-Quality Perovskite CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Thin Films for High-Performance Green Light-Emitting Diode Applications. ACS Applied Materials & Interfaces, 2017, 9, 42893-42904.	8.0	46
46	High-performance perovskite photodetectors based on solution-processed all-inorganic CsPbBr <sub>3</sub> thin films. Journal of Materials Chemistry C, 2017, 5, 8355-8360.	5.5	182
47	Fabrication of p-type ZnTe NW/In Schottky diodes for high-speed photodetectors. Journal of Materials Science: Materials in Electronics, 2017, 28, 1720-1725.	2.2	4
48	High-performance MoS <sub>2</sub> /Si heterojunction broadband photodetectors from deep ultraviolet to near infrared. Optics Letters, 2017, 42, 3335.	3.3	64
49	Near-infrared random lasing realized in a perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> thin film. Journal of Materials Chemistry C, 2016, 4, 8373-8379.	5.5	57
50	Improved Electrical Transport and Electroluminescence Properties of p-ZnO/n-Si Heterojunction via Introduction of Patterned SiO <sub>2</sub> Intermediate Layer. Journal of Physical Chemistry C, 2016, 120, 4504-4510.	3.1	18
51	Mechanical properties of individual InAs nanowires studied by tensile tests. Applied Physics Letters, 2014, 104, .	3.3	24
52	Transmission electron microscopy assisted <i>in-situ</i> joule heat dissipation study of individual InAs nanowires. Applied Physics Letters, 2013, 103, 193112.	3.3	9
53	Electrical transport properties of individual WS <sub>2</sub> nanotubes and their dependence on water and oxygen absorption. Applied Physics Letters, 2012, 101, .	3.3	42
54	Self-healing of bended WS <sub>2</sub> nanotubes and its effect on the nanotube's properties. Nanoscale, 2012, 4, 7825.	5.6	9

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55	Template-assisted synthesis of ordered single crystal InN nanowires. RSC Advances, 2012, 2, 6806.	3.6	5
56	High-performance photodetectors for visible and near-infrared lights based on individual WS <sub>2</sub> nanotubes. Applied Physics Letters, 2012, 100, .	3.3	111