

# Yue Wu

## List of Publications by Year in descending order

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61  
papers

3,421  
citations

159358

30  
h-index

138251

58  
g-index

63  
all docs

63  
docs citations

63  
times ranked

5134  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational Synthesis of Ultrathin n-Type Bi <sub>2</sub> Te <sub>3</sub> Nanowires with Enhanced Thermoelectric Properties. Nano Letters, 2012, 12, 56-60.	4.5	276
2	Reactive metal–support interactions at moderate temperature in two-dimensional niobium-carbide-supported platinum catalysts. Nature Catalysis, 2018, 1, 349-355.	16.1	244
3	2D Early Transition Metal Carbides (MXenes) for Catalysis. Small, 2019, 15, e1804736.	5.2	239
4	Nontoxic and Abundant Copper Zinc Tin Sulfide Nanocrystals for Potential High-Temperature Thermoelectric Energy Harvesting. Nano Letters, 2012, 12, 540-545.	4.5	206
5	Two-dimensional transition metal carbides as supports for tuning the chemistry of catalytic nanoparticles. Nature Communications, 2018, 9, 5258.	5.8	188
6	In Situ Formed Pt <sub>3</sub> Ti Nanoparticles on a Two-Dimensional Transition Metal Carbide (MXene) Used as Efficient Catalysts for Hydrogen Evolution Reactions. Nano Letters, 2019, 19, 5102-5108.	4.5	133
7	Changes in Catalytic and Adsorptive Properties of 2 nm Pt <sub>3</sub> Mn Nanoparticles by Subsurface Atoms. Journal of the American Chemical Society, 2018, 140, 14870-14877.	6.6	121
8	Enhanced Thermoelectric Properties in Bulk Nanowire Heterostructure-Based Nanocomposites through Minority Carrier Blocking. Nano Letters, 2015, 15, 1349-1355.	4.5	118
9	Highly Porous Thermoelectric Nanocomposites with Low Thermal Conductivity and High Figure of Merit from Large-Scale Solution-Synthesized Bi <sub>2</sub> Te <sub>2.5</sub> Se <sub>0.5</sub> Hollow Nanostructures. Angewandte Chemie - International Edition, 2017, 56, 3546-3551.	7.2	114
10	Nano-cross-junction effect on phonon transport in silicon nanowire cages. Physical Review B, 2016, 94, .	1.1	112
11	Synthesis and Thermoelectric Properties of Compositional-Modulated Lead Telluride–Bismuth Telluride Nanowire Heterostructures. Nano Letters, 2013, 13, 2058-2063.	4.5	105
12	Flexible thermoelectric generators with inkjet-printed bismuth telluride nanowires and liquid metal contacts. Nanoscale, 2019, 11, 5222-5230.	2.8	100
13	High visible light sensitive MoS <sub>2</sub> ultrathin nanosheets for photoelectrochemical biosensing. Biosensors and Bioelectronics, 2017, 92, 646-653.	5.3	98
14	Performance Enhancement of Hybrid Solar Cells Through Chemical Vapor Annealing. Nano Letters, 2010, 10, 1628-1631.	4.5	82
15	Composition Modulation of Ag <sub>2</sub> Te Nanowires for Tunable Electrical and Thermal Properties. Nano Letters, 2014, 14, 5398-5404.	4.5	80
16	Topological insulator Bi <sub>2</sub> Te <sub>3</sub> films synthesized by metal organic chemical vapor deposition. Applied Physics Letters, 2012, 101, .	1.5	70
17	Nanocomposites from Solution-Synthesized PbTe–BiSbTe Nanoheterostructure with Unity Figure of Merit at Low-Medium Temperatures (500–600 K). Advanced Materials, 2017, 29, 1605140.	11.1	70
18	Nanostructure-based thermoelectric conversion: an insight into the feasibility and sustainability for large-scale deployment. Nanoscale, 2011, 3, 3555.	2.8	66

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19	Environmentally Benign Synthesis of Ultrathin Metal Telluride Nanowires. <i>Journal of the American Chemical Society</i> , 2014, 136, 10242-10245.	6.6	65
20	Direct methane activation by atomically thin platinum nanolayers on two-dimensional metal carbides. <i>Nature Catalysis</i> , 2021, 4, 882-891.	16.1	63
21	Ultra-efficient electrocatalytic hydrogen evolution at one-step carbonization generated molybdenum carbide nanosheets/N-doped carbon. <i>Nanoscale</i> , 2016, 8, 16251-16258.	2.8	61
22	FeNi nanoparticles on Mo <sub>2</sub> TiC <sub>2</sub> T <sub>x</sub> MXene@nickel foam as robust electrocatalysts for overall water splitting. <i>Nano Research</i> , 2021, 14, 3474-3481.	5.8	56
23	Thermoelectric Properties of Silver Telluride/Bismuth Telluride Nanowire Heterostructure Synthesized by Site-Selective Conversion. <i>Chemistry of Materials</i> , 2014, 26, 3322-3327.	3.2	51
24	Inkjet Printing of Single-Crystalline Bi <sub>2</sub> Te <sub>3</sub> Thermoelectric Nanowire Networks. <i>Advanced Electronic Materials</i> , 2017, 3, 1600524.	2.6	48
25	Structure and Thermoelectric Properties of Spark Plasma Sintered Ultrathin PbTe Nanowires. <i>Nano Letters</i> , 2014, 14, 3466-3473.	4.5	47
26	Enhanced electrocatalytic hydrogen evolution performance of MoS <sub>2</sub> ultrathin nanosheets via Sn doping. <i>Applied Catalysis A: General</i> , 2017, 538, 1-8.	2.2	45
27	Constructing Highly Porous Thermoelectric Monoliths with High-Performance and Improved Portability from Solution-Synthesized Shape-Controlled Nanocrystals. <i>Nano Letters</i> , 2018, 18, 4034-4039.	4.5	38
28	Thermoelectric properties of solution-synthesized n-type Bi <sub>2</sub> Te <sub>3</sub> nanocomposites modulated by Se: An experimental and theoretical study. <i>Nano Research</i> , 2016, 9, 117-127.	5.8	36
29	Synthesis and investigation of thermoelectric and electrochemical properties of porous Ca <sub>9</sub> Co <sub>12</sub> O <sub>28</sub> nanowires. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11901.	5.2	32
30	Large-scale solution-phase production of Bi <sub>2</sub> Te <sub>3</sub> and PbTe nanowires using Te nanowire templates. <i>Nanoscale</i> , 2014, 6, 7872.	2.8	32
31	Impact of Surface-Bound Small Molecules on the Thermoelectric Property of Self-Assembled Ag <sub>2</sub> Te Nanocrystal Thin Films. <i>Nano Letters</i> , 2015, 15, 3748-3756.	4.5	29
32	Telluride nanowire and nanowire heterostructure-based thermoelectric energy harvesting. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6004-6014.	5.2	27
33	Highly Porous Thermoelectric Nanocomposites with Low Thermal Conductivity and High Figure of Merit from Large-Scale Solution-Synthesized Bi <sub>2</sub> Te <sub>2.5</sub> Se <sub>0.5</sub> Hollow Nanostructures. <i>Angewandte Chemie</i> , 2017, 129, 3600-3605.	1.6	26
34	Simultaneous preconcentration and ultrasensitive on-site SERS detection of polycyclic aromatic hydrocarbons in seawater using hexanethiol-modified silver decorated graphene nanomaterials. <i>Analytical Methods</i> , 2016, 8, 7587-7596.	1.3	24
35	Tunneling-Limited Thermoelectric Transport in Carbon Nanotube Networks Embedded in Poly(dimethylsiloxane) Elastomer. <i>ACS Applied Energy Materials</i> , 2019, 2, 2419-2426.	2.5	24
36	Soft-lock drawing of super-aligned carbon nanotube bundles for nanometre electrical contacts. <i>Nature Nanotechnology</i> , 2022, 17, 278-284.	15.6	24

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37	Simple Te-Thermal Converting 2H to 1T@2H MoS <sub>2</sub> Homojunctions with Enhanced Supercapacitor Performance. ACS Applied Energy Materials, 2019, 2, 8337-8344.	2.5	22
38	Manipulating Band Structure through Reconstruction of Binary Metal Sulfide for High-Performance Thermoelectrics in Solution-Synthesized Nanostructured Bi <sub>13</sub> S <sub>18</sub> I <sub>2</sub> . Angewandte Chemie - International Edition, 2018, 57, 2413-2418.	7.2	20
39	Hetero-nanostructured materials for high-power lithium ion batteries. Journal of Colloid and Interface Science, 2018, 529, 505-519.	5.0	18
40	Colloidal 2D-0D Lateral Nanoheterostructures: A Case Study of Site-Selective Growth of CdS Nanodots onto Bi <sub>2</sub> Se <sub>3</sub> Nanosheets. Nano Letters, 2015, 15, 4200-4205.	4.5	17
41	Porous ternary complex metal oxide nanoparticles converted from core/shell nanoparticles. Nano Research, 2016, 9, 996-1004.	5.8	16
42	Large-Scale, Solution-Synthesized Nanostructured Composites for Thermoelectric Applications. Advanced Materials, 2018, 30, e1801904.	11.1	16
43	Constructing of highly porous thermoelectric structures with improved thermoelectric performance. Nano Research, 2021, 14, 3608-3615.	5.8	16
44	MXene-Supported, Atomic-Layered Iridium Catalysts Created by Nanoparticle Re-Dispersion for Efficient Alkaline Hydrogen Evolution. Small, 2022, 18, e2105226.	5.2	16
45	Research Progress on Catalytic Water Splitting Based on Polyoxometalate/Semiconductor Composites. Catalysts, 2021, 11, 524.	1.6	15
46	A Nanostructuring Method to Decouple Electrical and Thermal Transport through the Formation of Electrically Triggered Conductive Nanofilaments. Advanced Materials, 2018, 30, e1705385.	11.1	13
47	Synthesis of Cu <sub>3.8</sub> Ni/CoO and Cu <sub>3.8</sub> Ni/MnO nanoparticles for advanced lithium-ion battery anode materials. Nano Research, 2017, 10, 1033-1043.	5.8	12
48	Identifying the Crystalline Orientation of Black Phosphorus by Using Optothermal Raman Spectroscopy. ChemPhysChem, 2017, 18, 2828-2834.	1.0	12
49	Manipulate intestinal organoids with niobium carbide nanosheets. Journal of Biomedical Materials Research - Part A, 2021, 109, 479-487.	2.1	12
50	Manipulating Band Structure through Reconstruction of Binary Metal Sulfide for High-Performance Thermoelectrics in Solution-Synthesized Nanostructured Bi <sub>13</sub> S <sub>18</sub> I <sub>2</sub> . Angewandte Chemie, 2018, 130, 2437-2442.	1.6	11
51	Creating Zipper-Like van der Waals Gap Discontinuity in Low-Temperature-Processed Nanostructured PbBi <sub>2</sub> Te <sub>1+3n</sub> : Enhanced Phonon Scattering and Improved Thermoelectric Performance. Angewandte Chemie - International Edition, 2018, 57, 10938-10943.	7.2	11
52	Welding of Semiconductor Nanowires by Coupling Laser-Induced Peening and Localized Heating. Scientific Reports, 2015, 5, 16052.	1.6	8
53	Study on Catalytic Water Oxidation Properties of Polynuclear Manganese Containing Polyoxometalates. Catalysts, 2022, 12, 160.	1.6	8
54	An electrically driven structural phase transition in single Ag <sub>2</sub> Te nanowire devices. Nanoscale, 2019, 11, 6629-6634.	2.8	7

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55	Recent progress in thermoelectric nanocomposites based on solution-synthesized nanoheterostructures. Nano Research, 2017, 10, 1498-1509.	5.8	6
56	Fabrication of Six Manganese Containing Polyoxometalate Modified Graphite C3N4 Nanosheets Catalysts Used to Catalyze Water Decomposition. Catalysts, 2021, 11, 856.	1.6	5
57	Origin of inhomogeneity in spark plasma sintered bismuth antimony telluride thermoelectric nanocomposites. Nano Research, 2020, 13, 1339-1346.	5.8	4
58	Solution-phase synthesized iron telluride nanostructures with controllable thermally triggered p-type to n-type transition. Nanoscale, 2018, 10, 20664-20670.	2.8	3
59	Creating Zipper-Like van der Waals Gap Discontinuity in Low-Temperature-Processed Nanostructured $\text{PbBi}_{2n}\text{Te}_{1+3n}$ : Enhanced Phonon Scattering and Improved Thermoelectric Performance. Angewandte Chemie, 2018, 130, 11104-11109.	1.6	1
60	Nanocomposites: Nanocomposites from Solution-Synthesized $\text{PbTe}$ - $\text{BiSbTe}$ Nanoheterostructure with Unity Figure of Merit at Low-Medium Temperatures (Adv. Mater. 10/2017). Advanced Materials, 2017, 29, .	11.1	0
61	Thermoelectrics: A Nanostructuring Method to Decouple Electrical and Thermal Transport through the Formation of Electrically Triggered Conductive Nanofilaments (Adv. Mater. 28/2018). Advanced Materials, 2018, 30, 1870243.	11.1	0