

# Yanming Wang

## List of Publications by Year in descending order

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33  
papers

1,687  
citations

516710

16  
h-index

395702

33  
g-index

33  
all docs

33  
docs citations

33  
times ranked

3060  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly stretchable polymer semiconductor films through the nanoconfinement effect. <i>Science</i> , 2017, 355, 59-64.	12.6	897
2	Cation- and pH-Dependent Hydrogen Evolution and Oxidation Reaction Kinetics. <i>Jacs Au</i> , 2021, 1, 1674-1687.	7.9	109
3	Ionic Highways from Covalent Assembly in Highly Conducting and Stable Anion Exchange Membrane Fuel Cells. <i>Journal of the American Chemical Society</i> , 2019, 141, 18152-18159.	13.7	99
4	Graph dynamical networks for unsupervised learning of atomic scale dynamics in materials. <i>Nature Communications</i> , 2019, 10, 2667.	12.8	82
5	Toward Designing Highly Conductive Polymer Electrolytes by Machine Learning Assisted Coarse-Grained Molecular Dynamics. <i>Chemistry of Materials</i> , 2020, 32, 4144-4151.	6.7	63
6	Thermodynamic-driven polychromatic quantum dot patterning for light-emitting diodes beyond eye-limiting resolution. <i>Nature Communications</i> , 2020, 11, 3040.	12.8	53
7	Revealing the Cluster-Cloud and Its Role in Nanocrystallization. <i>Advanced Materials</i> , 2019, 31, e1808225.	21.0	41
8	Cation-Dependent Interfacial Structures and Kinetics for Outer-Sphere Electron-Transfer Reactions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4397-4411.	3.1	38
9	Shape-Controlled, Self-Wrapped Carbon Nanotube 3D Electronics. <i>Advanced Science</i> , 2015, 2, 1500103.	11.2	32
10	Effect of Chemical Variations in the Structure of Poly(ethylene oxide)-Based Polymers on Lithium Transport in Concentrated Electrolytes. <i>Chemistry of Materials</i> , 2020, 32, 121-126.	6.7	27
11	Reliability of Single Crystal Silver Nanowire-Based Systems: Stress Assisted Instabilities. <i>ACS Nano</i> , 2017, 11, 4768-4776.	14.6	26
12	Discrete shear band plasticity through dislocation activities in body-centered cubic tungsten nanowires. <i>Scientific Reports</i> , 2018, 8, 4574.	3.3	22
13	Growth mode control for direct-gap core/shell Ge/GeSn nanowire light emission. <i>Materials Today</i> , 2020, 40, 101-113.	14.2	22
14	Topological origin of strain induced damage of multi-network elastomers by bond breaking. <i>Extreme Mechanics Letters</i> , 2020, 40, 100883.	4.1	19
15	Accelerating amorphous polymer electrolyte screening by learning to reduce errors in molecular dynamics simulated properties. <i>Nature Communications</i> , 2022, 13, .	12.8	18
16	Coupling of coherent misfit strain and composition distributions in core-shell Ge/Ge <sub>1-x</sub> Sn <sub>x</sub> nanowire light emitters. <i>Materials Today Nano</i> , 2019, 5, 100026.	4.6	17
17	A three-dimensional phase field model for nanowire growth by the vapor-liquid-solid mechanism. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014, 22, 055005.	2.0	16
18	Spontaneous, Defect-Free Kinking via Capillary Instability during Vapor-Liquid-Solid Nanowire Growth. <i>Nano Letters</i> , 2016, 16, 1713-1718.	9.1	15

#	ARTICLE	IF	CITATIONS
19	Anisotropic Epitaxial Behavior in the Amorphous Phase-Mediated Hydroxyapatite Crystallization Process: A New Understanding of Orientation Control. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7611-7616.	4.6	15
20	Phase Field Model for Morphological Transition in Nanowire Vapor-Liquid-Solid Growth. <i>Crystal Growth and Design</i> , 2017, 17, 2211-2217.	3.0	12
21	Atomic Structure of Dislocations and Grain Boundaries in Two-Dimensional PtSe <sub>2</sub> . <i>ACS Nano</i> , 2021, 15, 16748-16759.	14.6	12
22	Atoms to fibers: Identifying novel processing methods in the synthesis of pitch-based carbon fibers. <i>Science Advances</i> , 2022, 8, eabn1905.	10.3	12
23	Revealing Au <sub>13</sub> as Elementary Clusters During the Early Formation of Au Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5938-5943.	4.6	6
24	Bending and precipitate formation mechanisms in epitaxial Ge-core/GeSn-shell nanowires. <i>Nanoscale</i> , 2021, 13, 17547-17555.	5.6	6
25	Au-Ge MEAM potential fitted to the binary phase diagram. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2017, 25, 025004.	2.0	5
26	Anisotropy effect on strain-induced instability during growth of heteroepitaxial films. <i>Journal of Materials Science</i> , 2018, 53, 5777-5785.	3.7	5
27	Overpotential-Regulated Stable Cycling of a Thin Magnesium Metal Anode. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 31435-31447.	8.0	4
28	Atomistic mechanisms of orientation and temperature dependence in gold-catalyzed silicon growth. <i>Journal of Applied Physics</i> , 2017, 122, 085106.	2.5	3
29	Phase-field investigation of the stages in radial growth of core-shell Ge <sub>1-x</sub> Sn <sub>x</sub> nanowires. <i>Nanoscale</i> , 2019, 11, 21974-21980.	5.6	3
30	Cyclobutene based macrocycles. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3529-3538.	5.9	3
31	Competing effects of interface anisotropy and isotropic driving force on the growth of steady-state shape in phase-field modeling. <i>Computational Materials Science</i> , 2016, 111, 313-321.	3.0	2
32	Predicting stability of nanofin arrays against collapse by phase field modeling. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018, 36, 051602.	1.2	2
33	Collector Droplet Behavior during Formation of Nanowire Junctions. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6498-6504.	4.6	1