

# Yuhang Jing

## List of Publications by Year in descending order

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30  
papers

675  
citations

623734

14  
h-index

552781

26  
g-index

30  
all docs

30  
docs citations

30  
times ranked

930  
citing authors

#	ARTICLE	IF	CITATIONS
1	Doping-Induced Tunable Wettability and Adhesion of Graphene. Nano Letters, 2016, 16, 4708-4712.	9.1	119
2	Strain-resilient electrical functionality in thin-film metal electrodes using two-dimensional interlayers. Nature Electronics, 2021, 4, 126-133.	26.0	67
3	Low thermal conductivity of graphyne nanotubes from molecular dynamics study. Physical Review B, 2015, 91, .	3.2	65
4	Electronic transport properties of graphyne and its family. Computational Materials Science, 2013, 78, 22-28.	3.0	43
5	The role of A-site ion on proton diffusion in perovskite oxides (ABO <sub>3</sub> ). Journal of Power Sources, 2020, 445, 227327.	7.8	39
6	Atomistic simulations on the mechanical properties of silicene nanoribbons under uniaxial tension. Physica Status Solidi (B): Basic Research, 2013, 250, 1505-1509.	1.5	33
7	Molecular dynamics simulations of the tensile and melting behaviours of silicon nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 685-689.	2.7	32
8	Molecular dynamics simulations of the mechanical properties of crystalline/amorphous silicon core/shell nanowires. Physica B: Condensed Matter, 2010, 405, 2413-2417.	2.7	32
9	On the origin of abnormal phonon transport of graphyne. International Journal of Heat and Mass Transfer, 2015, 85, 880-889.	4.8	27
10	Mechanistic Insights into Hydration of Solid Oxides. Chemistry of Materials, 2018, 30, 138-144.	6.7	26
11	Thermal conductivity of hybrid graphene/silicon heterostructures. Journal of Applied Physics, 2013, 114, .	2.5	25
12	The unexpected non-monotonic inter-layer bonding dependence of the thermal conductivity of bilayered boron nitride. Nanoscale, 2015, 7, 7143-7150.	5.6	24
13	Tunable thermal transport properties of graphene by single-vacancy point defect. Applied Thermal Engineering, 2017, 113, 1419-1425.	6.0	22
14	Tunable phase stability and contact resistance of monolayer transition metal dichalcogenides contacts with metal. Npj 2D Materials and Applications, 2018, 2, .	7.9	17
15	The thermal transport properties of single-crystalline nanowires covered with amorphous shell: A molecular dynamics study. Journal of Non-Crystalline Solids, 2014, 387, 132-138.	3.1	16
16	Mechanical properties of kinked silicon nanowires. Physica B: Condensed Matter, 2015, 462, 59-63.	2.7	13
17	Understanding the effect of Ce and Zr on chemical expansion in yttrium doped strontium cerate and zirconate by high temperature X-ray analysis and density functional theory. Solid State Ionics, 2019, 333, 1-8.	2.7	13
18	Toward Durable Protonic Ceramic Cells: Hydration-Induced Chemical Expansion Correlates with Symmetry in the Y-Doped BaZrO <sub>3</sub> –BaCeO <sub>3</sub> Solid Solution. Journal of Physical Chemistry C, 2021, 125, 26216-26228.	3.1	12

#	ARTICLE	IF	CITATIONS
19	Electron Irradiation Induces the Conversion from 2H-WSe <sub>2</sub> to 1T-WSe <sub>2</sub> and Promotes the Performance of Electrocatalytic Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2022, 10, 2420-2428.	6.7	10
20	Investigation of the thermal transport properties for silicon nanofilm covered with graphene via nonequilibrium molecular dynamics. Physica Status Solidi (B): Basic Research, 2012, 249, 1728-1734.	1.5	6
21	The Abnormally Excellent Figure of Merit of 14,14,18-Graphyne at Room Temperature: A Study on the Thermoelectric Characteristic of Graphyne. ACS Applied Energy Materials, 2022, 5, 6363-6372.	5.1	6
22	Strain-induced tunable energy barrier of proton diffusion in Y-doped BaCeO <sub>3</sub> and Y-doped BaZrO <sub>3</sub> . International Journal of Energy Research, 2022, 46, 7816-7824.	4.5	5
23	On the anomalous diffusion of proton in Y-doped BaZrO <sub>3</sub> perovskite oxide. Solid State Ionics, 2022, 376, 115859.	2.7	5
24	Atomistic Simulations on the Tensile Deformation Behaviors of Three-Dimensional Graphene. Physica Status Solidi (B): Basic Research, 2018, 255, 1700680.	1.5	4
25	Atomistic simulations of anisotropic mechanical behavior in non-stoichiometric gadolinia-doped ceria solid electrolytes. International Journal of Energy Research, 2020, 44, 3547-3557.	4.5	4
26	Kinetic Monte Carlo simulation of ZrO <sub>2</sub> coating deposited by EB-PVD. Journal of the American Ceramic Society, 2022, 105, 830-841.	3.8	4
27	Mechanistic insights into proton diffusion in $\lambda$ 3 BaZrO <sub>3</sub> (210)[001] tilt grain boundary. Ceramics International, 2022, 48, 2097-2104.	4.8	4
28	Phonon Transport of Zigzag/Armchair Graphene Superlattice Nanoribbons. International Journal of Thermophysics, 2018, 39, 1.	2.1	2
29	Atomistic simulations on the mechanical properties of silicene nanoribbons under uniaxial tension. Physica Status Solidi (B): Basic Research, 2013, 250, .	1.5	0
30	Atomistic Simulations on the Tensile Deformation Behaviors of Three-Dimensional Graphene (Phys.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.5	0