

Gang Wu

List of Publications by Year in descending order

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71
papers

1,708
citations

279798

23
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289244

40
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all docs

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docs citations

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times ranked

2368
citing authors

#	ARTICLE	IF	CITATIONS
1	A Dual-Surface Mechanism of Oxidant-Free Pyrrole Polymerization in the Two-Dimensional Titanium Carbide (MXene) Interlayer Nanospace. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1316-1325.	3.1	5
2	Molecular simulation of linear octacosane <i>via</i> a CG10 coarse grain scheme. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 5351-5359.	2.8	1
3	Wax Inhibition by Ethylene-Vinyl Acetate Using United Atom Molecular Simulations. <i>Energy & Fuels</i> , 2022, 36, 861-870.	5.1	1
4	Gallium-Doped Zinc Oxide Nanostructures for Tunable Transparent Thermoelectric Films. <i>ACS Applied Nano Materials</i> , 2022, 5, 8631-8639.	5.0	13
5	Unravelling the Molecular Origin of Organic Semiconductors with High-Performance Thermoelectric Response. <i>Advanced Functional Materials</i> , 2021, 31, 2007438.	14.9	14
6	Electronic transport descriptors for the rapid screening of thermoelectric materials. <i>Materials Horizons</i> , 2021, 8, 2463-2474.	12.2	16
7	Ab initio dipolar electron-phonon interactions in two-dimensional materials. <i>Physical Review B</i> , 2021, 103, .	3.2	12
8	Designing Intrinsic Topological Insulators in Two-Dimensional Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6934-6940.	4.6	6
9	A molecular roadmap towards organic donor-acceptor complexes with high-performance thermoelectric response. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	12
10	Geometry and Greatly Enhanced Thermoelectric Performance of Monolayer MXY Transition-Metal Dichalcogenide: MoTe as an Example. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100166.	2.4	5
11	Molecular dynamics simulation of octacosane for phase diagrams and properties <i>via</i> the united-atom scheme. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21262-21271.	2.8	8
12	High Spin Pro-Quinoid Benzo[1,2-c:4,5-c']bisthiadiazole Conjugated Polymers for High-Performance Solution-Processable Polymer Thermoelectrics. , 2020, 2, 147-152.		43
13	Theoretical search for high-performance thermoelectric donor-acceptor copolymers: the role of super-exchange couplings. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21852-21861.	10.3	22
14	Strain Effects on the n-Type Thermoelectric Performance of the Small-Molecule Organic Semiconductor 2,5-Difluoro-7,7,8,8-Tetracyanoquinodimethane. <i>ACS Applied Energy Materials</i> , 2020, 3, 10174-10182.	5.1	4
15	High performance photocatalytic and thermoelectric two-dimensional asymmetrically ordered Janus-like MXene alloys. <i>Materials Advances</i> , 2020, 1, 1176-1185.	5.4	14
16	Effect of substituents in sulfoxides on the enhancement of thermoelectric properties of PEDOT:PSS: experimental and modelling evidence. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 976-984.	3.4	29
17	Uniaxial negative thermal expansion and band renormalization in monolayer $TdMoTe_2$ at low temperature. <i>Physical Review B</i> , 2020, 101, .	3.2	12
18	Conducting Polymers: The Role of Electrostatic Interaction between Free Charge Carriers and Counterions in Thermoelectric Power Factor of Conducting Polymers: From Crystalline to Polycrystalline Domains (<i>Adv. Theory Simul.</i> 6/2020). <i>Advanced Theory and Simulations</i> , 2020, 3, 2070016.	2.8	1

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19	Beyond the Mahan–Sofo best thermoelectric strategy: high thermoelectric performance from directional π -conjugation in two-dimensional poly(tetrathienoanthracene). <i>Journal of Materials Chemistry A</i> , 2020, 8, 4257-4262.	10.3	13
20	The Role of Electrostatic Interaction between Free Charge Carriers and Counterions in Thermoelectric Power Factor of Conducting Polymers: From Crystalline to Polycrystalline Domains. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000015.	2.8	10
21	Correlating charge and thermoelectric transport to paracrystallinity in conducting polymers. <i>Nature Communications</i> , 2020, 11, 1737.	12.8	45
22	EPIC STAR: a reliable and efficient approach for phonon- and impurity-limited charge transport calculations. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	31
23	Orbital-adapted electronic structure and anisotropic transport in SrTiO_3 completely polarized d orbitals realized in NiO . <i>Journal of Materials Chemistry A</i> , 2020, 8, 19757-19766.	2.4	2
24	Topological evolution of correlated band structures and heavy-fermion-like behavior in a molybdenum-based metal organic framework $\text{C}_4\text{S}_3\text{Mo}_6$. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 295503.	2.4	2
25	Unprecedented Enhancement of Thermoelectric Power Factor Induced by Pressure in Small-Molecule Organic Semiconductors. <i>Advanced Materials</i> , 2019, 31, e1901956.	1.8	0
26	NIR light manipulated paper for customizing devices with sophisticated structure from DA-epoxy/graphene composites. <i>Composites Part B: Engineering</i> , 2019, 177, 107369.	21.0	30
27	Improved Alignment of PEDOT:PSS Induced by in-situ Crystallization of Green Dimethylsulfone Molecules to Enhance the Polymer Thermoelectric Performance. <i>Frontiers in Chemistry</i> , 2019, 7, 783.	12.0	6
28	Self-Organization of PEDOT:PSS Induced by Green and Water-Soluble Organic Molecules. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9745-9755.	3.6	36
29	2D Single-Layer π -Conjugated Nickel Bis(dithiolene) Complex: A Good Electron-Poor Phonon Thermoelectric Material. <i>Advanced Electronic Materials</i> , 2019, 5, 1800892.	3.1	32
30	A theoretical mechanistic study on electrical conductivity enhancement of DMSO treated PEDOT:PSS. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5122-5131.	5.1	21
31	Poly(nickel-ethylenetetrathiolate) and Its Analogs: Theoretical Prediction of High-Performance Doping-Free Thermoelectric Polymers. <i>Journal of the American Chemical Society</i> , 2018, 140, 13200-13204.	5.5	100
32	Orbital-Engineering-Based Screening of π -Conjugated d Transition-Metal Coordination Polymers for High-Performance n-Type Thermoelectric Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35306-35315.	13.7	39
33	Tuning the thermoelectric performance of d conjugated nickel coordination polymers through metal-ligand frontier molecular orbital alignment. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19757-19766.	8.0	32
34	Pressure-induced superconductivity in MoP. <i>Npj Quantum Materials</i> , 2018, 3, .	10.3	26
35	Origin of metallicity in 2D multilayer nickel bis(dithiolene) sheets. <i>2D Materials</i> , 2018, 5, 035027.	5.2	32
36		4.4	5

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37	Theoretical study on the self-assembly of 1,3,5-triethynylbenzene on Si(100)2 Å–1 and in situ polymerization via reaction with CO to fabricate a single surface-grafted polymer. Journal of Materials Chemistry C, 2017, 5, 3585-3591.	5.5	6
38	Photothermal Conversion Triggered Precisely Targeted Healing of Epoxy Resin Based on Thermoreversible Diels–Alder Network and Amino-Functionalized Carbon Nanotubes. ACS Applied Materials & Interfaces, 2017, 9, 20797-20807.	8.0	95
39	Correlation corrected phonon vibration in YTiO ₃ and its effect on electronic properties. Europhysics Letters, 2017, 117, 27004.	2.0	2
40	How to Fabricate a Surface-Grafted Polythiophene on H-Si(100)2 Å–1 Surface via Self-Assembling and in Situ Surface Polymerization: A Theoretical Guide. Journal of Physical Chemistry C, 2016, 120, 25612-25619.	3.1	3
41	Several magnetic semiconductors based on the quaternary Heusler compounds. , 2015, , .		0
42	A theoretical guide for fabricating a conductive molecular wire on a silicon surface via an in situ surface polymerization reaction. Nanoscale, 2015, 7, 15277-15283.	5.6	4
43	Topological insulators based on 2D shape-persistent organic ligand complexes. Nanoscale, 2015, 7, 727-735.	5.6	46
44	Adsorption and Diffusion of CO ₂ and CH ₄ in Zeolitic Imidazolate Framework-8: Effect of Structural Flexibility. Journal of Physical Chemistry C, 2014, 118, 8788-8794.	3.1	132
45	A Versatile Approach towards Multifunctional Robust Microcapsules with Tunable, Restorable, and Solvent-Proof Superhydrophobicity for Self-Healing and Self-Cleaning Coatings. Advanced Functional Materials, 2014, 24, 7661-7671.	14.9	129
46	First-principles study of perpendicular magnetic anisotropy in CoFe/MgO and CoFe/MgB. Journal of Applied Physics, 2012, 112, 084307.	3.2	37
47	First-principles calculations of the magnetic anisotropic constants of Co–Pd multilayers: Effect of stacking faults. Europhysics Letters, 2012, 99, 17001.	2.0	6
48	Electromechanical coupling in coaxial semiconductor carbon nanotube intramolecular junctions. Europhysics Letters, 2011, 95, 37001.	2.0	0
49	Doping-Enhanced Lithium Diffusion in Lithium-Ion Batteries. Physical Review Letters, 2011, 107, 118302.	7.8	7
50	Phononics: A New Science and Technology of Controlling Heat Flow and Processing Information by Phonons. , 2010, , .		2
51	Density-gradient-corrected embedded atom method. Physical Review B, 2009, 79, .	3.2	9
52	Anomalous Heat Conduction, Diffusion and Heat Rectification in Nanoscale Structures. , 2009, , .		0
53	Structural and vibrational properties of deformed carbon nanotubes. Frontiers of Physics in China, 2009, 4, 280-296.	1.0	3
54	Itinerant Flat-Band Magnetism in Hydrogenated Carbon Nanotubes. ACS Nano, 2009, 3, 1646-1650.	14.6	17

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55	<i>G</i> -band Variation of Individual Single-Walled Carbon Nanotubes under Torsional Strain. Journal of Physical Chemistry C, 2008, 112, 10789-10793.	3.1	12
56	Thermal rectifiers from deformed carbon nanohorns. Journal of Physics Condensed Matter, 2008, 20, 175211.	1.8	58
57	The study of structural, electronic and optical properties of double-walled carbon nanotube bundles under hydrostatic pressure. Europhysics Letters, 2008, 81, 47003.	2.0	6
58	Thermal rectification in carbon nanotube intramolecular junctions: Molecular dynamics calculations. Physical Review B, 2007, 76, .	3.2	222
59	Raman characteristic peaks induced by the topological defects of carbon nanotube intramolecular junctions. Physical Review B, 2006, 73, .	3.2	34
60	Radial breathinglike mode of the collapsed single-walled carbon nanotube bundle under hydrostatic pressure. Applied Physics Letters, 2006, 88, 223114.	3.3	7
61	Single-walled carbon nanotube bundle under hydrostatic pressure studied by first-principles calculations. Physical Review B, 2006, 73, .	3.2	26
62	Nonlinear optical susceptibility of deformed achiral carbon nanotubes studied from first-principles calculations. Applied Physics Letters, 2006, 89, 013102.	3.3	6
63	Structural transformations of double-walled carbon nanotube bundle under hydrostatic pressure. Applied Physics Letters, 2006, 89, 113101.	3.3	41
64	Anomalous heat conduction in a carbon nanowire: Molecular dynamics calculations. Physical Review B, 2005, 71, .	3.2	28
65	Raman modes of the deformed single-wall carbon nanotubes. Physical Review B, 2005, 72, .	3.2	51
66	Radial-breathing-like phonon modes of double-walled carbon nanotubes. Physical Review B, 2005, 72, .	3.2	8
67	Linear optical properties of deformed carbon nanotubes. Physical Review B, 2004, 70, .	3.2	16
68	Heat conduction in a carbon chain. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 325, 403-406.	2.1	9
69	Noise-induced order phenomenon in semiquantum system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 308, 391-396.	2.1	0
70	Control of Semiquantum Chaos by the Nonfeedback Method. Chinese Physics Letters, 2002, 19, 1763-1766.	3.3	2
71	Characteristics of the wave function of coupled oscillators in semiquantum chaos. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 300, 199-204.	2.1	0