

Kunpeng Dou

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

866
citations

1040056

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h-index

752698

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22
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docs citations

22
times ranked

1940
citing authors

#	ARTICLE	IF	CITATIONS
1	Higher-order anharmonicity leads to ultra-low thermal conductivity and high output power density of SnTe-based thermoelectric materials and modules. <i>Materials Today Physics</i> , 2022, 26, 100748.	6.0	9
2	Flexoelectricity Driven Fano Resonance in Slotted Carbon Nanotubes for Decoupled Multifunctional Sensing. <i>Research</i> , 2021, 2021, 9821905.	5.7	2
3	Band alignment in multilayered semiconductor homojunctions supported on metals. <i>Journal of Materials Chemistry C</i> , 2020, 8, 959-967.	5.5	15
4	Sr-Doped Cubic In_2O_3 /Rhombohedral In_2O_3 Homojunction Nanowires for Highly Sensitive and Selective Breath Ethanol Sensing: Experiment and DFT Simulation Studies. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1270-1279.	8.0	58
5	Asymmetrically flexoelectric gating effect of Janus transition-metal dichalcogenides and their sensor applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11457-11467.	5.5	15
6	Computational Studies on Structural and Electronic Properties of NiCo ₂ S ₄ (001)/KOH Electrolyte Interface. <i>Journal of Electronic Materials</i> , 2019, 48, 6347-6353.	2.2	1
7	Probe Type II Band Alignment in One-Dimensional Van Der Waals Heterostructures Using First-Principles Calculations. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	0
8	Gate-Tunable Fano Resonances in Parallel-Polyacene-Bridged Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4605-4609.	3.1	2
9	Robust staggered band alignment in one-dimensional van der Waals heterostructures: binary compound nanoribbons in nanotubes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3829-3836.	5.5	8
10	Nearly spherical CoP nanoparticle/carbon nanosheet hybrids: a high-performance trifunctional electrocatalyst for oxygen reduction and water splitting. <i>RSC Advances</i> , 2019, 9, 39951-39957.	3.6	22
11	Selective interface transparency in graphene nanoribbon based molecular junctions. <i>Nanoscale</i> , 2018, 10, 4861-4864.	5.6	7
12	Conductance switching of a phthalocyanine molecule on an insulating surface. <i>Frontiers of Physics</i> , 2017, 12, 1.	5.0	3
13	Dual response of graphene-based ultra-small molecular junctions to defect engineering. <i>Nano Research</i> , 2016, 9, 1480-1488.	10.4	10
14	Unusual thermal transport behavior in self-assembled fullerene nanorods. <i>RSC Advances</i> , 2016, 6, 67509-67513.	3.6	2
15	Conductance Superposition Rule in Carbon Nanowire Junctions with Parallel Paths. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18939-18944.	3.1	11
16	Tailoring the transmission lineshape spectrum of zigzag graphene nanoribbon based heterojunctions via controlling their width and edge protrusions. <i>Nanoscale</i> , 2015, 7, 20003-20008.	5.6	11
17	Conductance of a Single Magnesium Porphine Molecule on an Insulating Surface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25129-25133.	3.1	1
18	MoSe ₂ nanosheets and their graphene hybrids: synthesis, characterization and hydrogen evolution reaction studies. <i>Journal of Materials Chemistry A</i> , 2014, 2, 360-364.	10.3	564

#	ARTICLE	IF	CITATIONS
19	Engineering of Facets, Band Structure, and Gas Sensing Properties of Hierarchical Sn ²⁺ -Doped SnO ₂ Nanostructures. <i>Advanced Functional Materials</i> , 2013, 23, 4847-4853.	14.9	108
20	Electron Transport Suppression from Tip-Plane State Interaction on Si(100)-2 Å ⁻¹ Surfaces. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 707-712.	5.3	4
21	Intramolecular Torsion Based Molecular Switch Functionality Enhanced in π -Conjugated Oligomolecules by a π -Conjugated Pendant Group. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13911-13918.	3.1	6
22	A revised mechanism of band gap evolution of TMDC nanotubes and its application to Janus TMDC nanotubes: negative electron and hole compressibility. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	7