HÃ¢ldun SevinÃ§li

List of Publications by Year
in descending order

42 papers	2,535 citations	331259 21 h-index	253896 43 g-index
43 all docs	43 docs citations	43 times ranked	3147 citing authors

#	Article	IF	Citations
1	Toward Optimized Charge Transport in Multilayer Reduced Graphene Oxides. Nano Letters, 2022, , .	4.5	3
2	Enhancement of thermoelectric efficiency of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>T</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mrow><m nanostructuring. Physical Review B, 2021, 103, .	1.1	10
3	Ballistic thermoelectric transport properties of two-dimensional group III-VI monolayers. Physical Review B, 2021, 103, .	1.1	19
4	Dimensional Crossover and Enhanced Thermoelectric Efficiency Due to Broken Symmetry in Graphene Antidot Lattices. Physical Review Applied, 2020, 14, .	1.5	1
5	Structural, electronic, and magnetic properties of point defects in polyaniline (C3N) and graphene monolayers: A comparative study. Journal of Applied Physics, 2020, 127, 195102.	1.1	8
6	Collapse of the vacuum in hexagonal graphene quantum dots: A comparative study between tight-binding and mean-field Hubbard models. Physical Review B, 2020, 101, .	1.1	5
7	First-Principles Investigation of Photoisomeric Switching of Vibrational Heat Current across Molecular Junctions. Physical Review Applied, 2020, 14, .	1.5	1
8	Ballistic thermoelectric properties of monolayer semiconducting transition metal dichalcogenides and oxides. Physical Review B, 2019, 100, .	1.1	60
9	Green function, quasi-classical Langevin and Kuboâ€“Greenwood methods in quantum thermal transport. Journal of Physics Condensed Matter, 2019, 31, 273003.	0.7	15
10	Firstâ€Principleâ€Based Phonon Transport Properties of Nanoscale Graphene Grain Boundaries. Advanced Science, 2018, 5, 1700365.	5.6	17
11	Tuning thermal transport in graphene via combinations of molecular antiresonances. Carbon, 2018, 140, 603-609.	5.4	2
12	Structural, vibrational, and electronic properties of single-layer hexagonal crystals of group IV and V elements. Physical Review B, 2018, 98, .	1.1	102
13	Directed growth of hydrogen lines on graphene: High-throughput simulations powered by evolutionary algorithm. Physical Review Materials, 2018, 2, .	0.9	1
14	Quartic Dispersion, Strong Singularity, Magnetic Instability, and Unique Thermoelectric Properties in Two-Dimensional Hexagonal Lattices of Group-VA Elements. Nano Letters, 2017, 17, 2589-2595.	4.5	33
15	Promising thermoelectric properties of phosphorenes. Nanotechnology, 2016, 27, 355705.	1.3	43
16	Electronic, phononic, and thermoelectric properties of graphyne sheets. Applied Physics Letters, 2014, 105, 223108.	1.5	64
17	Phonon scattering in graphene over substrate steps. Applied Physics Letters, 2014, 105, 153108.	1.5	10
18	Quantum interference in thermoelectric molecular junctions: A toy model perspective. Journal of Applied Physics, 2014, 116, 074308.	1.1	22

#	Article	IF	Citations
19	Topological Signatures in the Electronic Structure of Graphene Spirals. Scientific Reports, 2013, 3, 1632.	1.6	36
20	A bottom-up route to enhance thermoelectric figures of merit in graphene nanoribbons. Scientific Reports, 2013, 3, 1228.	1.6	117
21	Comparison of electron and phonon transport in disordered semiconductor carbon nanotubes. Journal of Computational Electronics, 2013, 12, 685-691.	1.3	7
22	A parabolic model to control quantum interference in T-shaped molecular junctions. Physical Chemistry Chemical Physics, 2013, 15, 13951.	1.3	25
23	Functionalization of Graphene Nanoribbons. Nanoscience and Technology, 2013, , 69-92.	1.5	1
24	Prediction of quantum interference in molecular junctions using a parabolic diagram: Understanding the origin of Fano and anti- resonances. Journal of Physics: Conference Series, 2013, 427, 012013.	0.3	12
25	Effects of domains in phonon conduction through hybrid boron nitride and graphene sheets. Physical Review B, 2011, 84, .	1.1	66
26	Phonon Engineering in Carbon Nanotubes by Controlling Defect Concentration. Nano Letters, 2011, 11, 4971-4977.	4.5	99
27	Control of Thermal and Electronic Transport in Defect-Engineered Graphene Nanoribbons. ACS Nano, 2011, 5, 3779-3787.	7.3	320
28	Efficient linear scaling method for computing the thermal conductivity of disordered materials. Physical Review B, 2011, 83, .	1.1	46
29	Graphene: Piecing it Together. Advanced Materials, 2011, 23, 4471-4490.	11.1	127
30	Engineering the figure of merit and thermopower in single-molecule devices connected to semiconducting electrodes. Physical Review B, 2010, 81, .	1.1	91
31	Phonon transport in large scale carbon-based disordered materials: Implementation of an efficient order-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>and real-space Kubo methodology. Physical Review B, 2010, 82, .	1.1	41
32	Enhanced thermoelectric figure of merit in edge-disordered zigzag graphene nanoribbons. Physical Review B, 2010, 81, .	1.1	274
33	Superlattice structures of graphene-based armchair nanoribbons. Physical Review B, 2008, 78, .	1.1	148
34	Electronic and magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:math>transition-metal atom adsorbed graphene and graphene nanoribbons. Physical Review B, 2008, 77, .	1.1	452
35	First-principles approach to monitoring the band gap and magnetic state of a graphene nanoribbon via its vacancies. Physical Review B, 2008, 78, .	1.1	120
36	Spin confinement in the superlattices of graphene ribbons. Applied Physics Letters, 2008, 92, .	1.5	79

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37	Oscillatory exchange coupling in magnetic molecules. Journal of Physics Condensed Matter, 2007, 19, 216205.	0.7	3
38	â€‡Dynamics of phononic dissipation at the atomic scale: Dependence on internal degrees of freedom. Physical Review B, 2007, 76, .	1.1	11
39	Spintronic properties of carbon-based one-dimensional molecular structures. Physical Review B, 2006, 74, .	1.1	21
40	Non-Markovian decoherence: A critique of the two-level approximation. Journal of Magnetism and Magnetic Materials, 2006, 300, e579-e584.	1.0	1
41	The off-resonant aspects of decoherence and a critique of the two-level approximation. Journal of Physics Condensed Matter, 2006, 18, 345-363.	0.7	1
42	Size-dependent alternation of magnetoresistive properties in atomic chains. Journal of Chemical Physics, 2006, 125, 121102.	1.2	11