HÃ¢ldun SevinÃ§li

List of Publications by Year
in descending order

42 papers	2,535 citations	331670 21 h-index	254184 43 g-index
43 all docs	43 docs citations	43 times ranked	3147 citing authors

#	Article	IF	Citations
1	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, .	3.2	452
2	Control of Thermal and Electronic Transport in Defect-Engineered Graphene Nanoribbons. ACS Nano, 2011, 5, 3779-3787.	14.6	320
3	Enhanced thermoelectric figure of merit in edge-disordered zigzag graphene nanoribbons. Physical Review B, 2010, 81, .	3.2	274
4	Superlattice structures of graphene-based armchair nanoribbons. Physical Review B, 2008, 78, .	3.2	148
5	Graphene: Piecing it Together. Advanced Materials, 2011, 23, 4471-4490.	21.0	127
6	First-principles approach to monitoring the band gap and magnetic state of a graphene nanoribbon via its vacancies. Physical Review B, 2008, 78, .	3.2	120
7	A bottom-up route to enhance thermoelectric figures of merit in graphene nanoribbons. Scientific Reports, 2013, 3, 1228.	3.3	117
8	Structural, vibrational, and electronic properties of single-layer hexagonal crystals of group IV and V elements. Physical Review B, 2018, 98, .	3.2	102
9	Phonon Engineering in Carbon Nanotubes by Controlling Defect Concentration. Nano Letters, 2011, 11, 4971-4977.	9.1	99
10	Engineering the figure of merit and thermopower in single-molecule devices connected to semiconducting electrodes. Physical Review B, 2010, 81, .	3.2	91
11	Spin confinement in the superlattices of graphene ribbons. Applied Physics Letters, 2008, 92, .	3.3	79
12	Effects of domains in phonon conduction through hybrid boron nitride and graphene sheets. Physical Review B, 2011, 84, .	3.2	66
13	Electronic, phononic, and thermoelectric properties of graphyne sheets. Applied Physics Letters, 2014, 105, 223108.	3.3	64
14	Ballistic thermoelectric properties of monolayer semiconducting transition metal dichalcogenides and oxides. Physical Review B, 2019, 100, .	3.2	60
15	Efficient linear scaling method for computing the thermal conductivity of disordered materials. Physical Review B, 2011, 83, .	3.2	46
16	Promising thermoelectric properties of phosphorenes. Nanotechnology, 2016, 27, 355705.	2.6	43
17	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, .	3.2	41
18	Topological Signatures in the Electronic Structure of Graphene Spirals. Scientific Reports, 2013, 3, 1632.	3.3	36

#	ARTICLE	IF	CITATIONS
19	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.	9.1	33
20	A parabolic model to control quantum interference in T-shaped molecular junctions. Physical Chemistry Chemical Physics, 2013, 15, 13951.	2.8	25
21	Quantum interference in thermoelectric molecular junctions: A toy model perspective. Journal of Applied Physics, 2014, 116, 074308.	2.5	22
22	Spintronic properties of carbon-based one-dimensional molecular structures. Physical Review B, 2006, 74, .	3.2	21
23	Ballistic thermoelectric transport properties of two-dimensional group III-VI monolayers. Physical Review B, 2021, 103, .	3.2	19
24	Firstâ€Principleâ€Based Phonon Transport Properties of Nanoscale Graphene Grain Boundaries. Advanced Science, 2018, 5, 1700365.	11.2	17
25	Green function, quasi-classical Langevin and Kuboâ€“Greenwood methods in quantum thermal transport. Journal of Physics Condensed Matter, 2019, 31, 273003.	1.8	15
26	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.	0.4	12
27	Size-dependent alternation of magnetoresistive properties in atomic chains. Journal of Chemical Physics, 2006, 125, 121102.	3.0	11
28	â€‡Dynamics of phononic dissipation at the atomic scale: Dependence on internal degrees of freedom. Physical Review B, 2007, 76, .	3.2	11
29	Phonon scattering in graphene over substrate steps. Applied Physics Letters, 2014, 105, 153108.	3.3	10
30	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><r nanostructuring. Physical Review B, 2021, 103, .	3.2	10
31	Structural, electronic, and magnetic properties of point defects in polyaniline (C3N) and graphene monolayers: A comparative study. Journal of Applied Physics, 2020, 127, 195102.	2.5	8
32	Comparison of electron and phonon transport in disordered semiconductor carbon nanotubes. Journal of Computational Electronics, 2013, 12, 685-691.	2.5	7
33	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, .	3.2	5
34	Oscillatory exchange coupling in magnetic molecules. Journal of Physics Condensed Matter, 2007, 19, 216205.	1.8	3
35	Toward Optimized Charge Transport in Multilayer Reduced Graphene Oxides. Nano Letters, 2022, , .	9.1	3
36	Tuning thermal transport in graphene via combinations of molecular antiresonances. Carbon, 2018, 140, 603-609.	10.3	2

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37	Non-Markovian decoherence: A critique of the two-level approximation. Journal of Magnetism and Magnetic Materials, 2006, 300, e579-e584.	2.3	1
38	The off-resonant aspects of decoherence and a critique of the two-level approximation. Journal of Physics Condensed Matter, 2006, 18, 345-363.	1.8	1
39	Functionalization of Graphene Nanoribbons. Nanoscience and Technology, 2013, , 69-92.	1.5	1
40	Dimensional Crossover and Enhanced Thermoelectric Efficiency Due to Broken Symmetry in Graphene Antidot Lattices. Physical Review Applied, 2020, 14, .	3.8	1
41	Directed growth of hydrogen lines on graphene: High-throughput simulations powered by evolutionary algorithm. Physical Review Materials, 2018, 2, .	2.4	1
42	First-Principles Investigation of Photoisomeric Switching of Vibrational Heat Current across Molecular Junctions. Physical Review Applied, 2020, 14, .	3.8	1