Hîdun Sevinîi

List of Publications by Year in Descending Order

39 papers	2,136 citations	21 h-index	43 g-index
43 ext. papers	2,341 ext. citations	4.9 avg, IF	5.11 L-index

#	Paper	IF	Citations
39	Ballistic thermoelectric transport properties of two-dimensional group III-VI monolayers. *Physical Review B*, **2021**, 103,	3.3	2
38	Enhancement of thermoelectric efficiency of THfSe2 via nanostructuring. *Physical Review B*, **2021**, 103,	3.3	5
37	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	5
36	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,	3.3	5
35	Ballistic thermoelectric properties of monolayer semiconducting transition metal dichalcogenides and oxides. *Physical Review B*, **2019**, 100,	3.3	26
34	Green function, quasi-classical Langevin and Kubo-Greenwood methods in quantum thermal transport. *Journal of Physics Condensed Matter*, **2019**, 31, 273003	1.8	9
33	First-Principle-Based Phonon Transport Properties of Nanoscale Graphene Grain Boundaries. *Advanced Science*, **2018**, 5, 1700365	13.6	16
32	Structural, vibrational, and electronic properties of single-layer hexagonal crystals of group IV and V elements. *Physical Review B*, **2018**, 98,	3.3	53
31	Directed growth of hydrogen lines on graphene: High-throughput simulations powered by evolutionary algorithm. *Physical Review Materials*, **2018**, 2,	3.2	1
30	Tuning thermal transport in graphene via combinations of molecular antiresonances. *Carbon*, **2018**, 140, 603-609	10.4	2
29	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	11.5	24
28	Promising thermoelectric properties of phosphorenes. *Nanotechnology*, **2016**, 27, 355705	3.4	35
27	Quantum interference in thermoelectric molecular junctions: A toy model perspective. *Journal of Applied Physics*, **2014**, 116, 074308	2.5	15
26	Electronic, phononic, and thermoelectric properties of graphyne sheets. *Applied Physics Letters*, **2014**, 105, 223108	3.4	58
25	Phonon scattering in graphene over substrate steps. *Applied Physics Letters*, **2014**, 105, 153108	3.4	10
24	Topological signatures in the electronic structure of graphene spirals. *Scientific Reports*, **2013**, 3, 1632	4.9	30
23	A bottom-up route to enhance thermoelectric figures of merit in graphene nanoribbons. *Scientific Reports*, **2013**, 3, 1228	4.9	101

22	Comparison of electron and phonon transport in disordered semiconductor carbon nanotubes. *Journal of Computational Electronics*, **2013**, 12, 685-691	1.8	6
21	A parabolic model to control quantum interference in T-shaped molecular junctions. *Physical Chemistry Chemical Physics*, **2013**, 15, 13951-8	3.6	22
20	Functionalization of Graphene Nanoribbons. *Nanoscience and Technology*, **2013**, 69-92	0.6	1
19	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	8
18	Effects of domains in phonon conduction through hybrid boron nitride and graphene sheets. *Physical Review B*, **2011**, 84,	3.3	53
17	Phonon engineering in carbon nanotubes by controlling defect concentration. *Nano Letters*, **2011**, 11, 4971-7	11.5	90
16	Control of thermal and electronic transport in defect-engineered graphene nanoribbons. *ACS Nano*, **2011**, 5, 3779-87	16.7	279
15	Efficient linear scaling method for computing the thermal conductivity of disordered materials. *Physical Review B*, **2011**, 83,	3.3	34
14	Graphene: Piecing it together. *Advanced Materials*, **2011**, 23, 4471-90	24	115
13	Engineering the figure of merit and thermopower in single-molecule devices connected to semiconducting electrodes. *Physical Review B*, **2010**, 81,	3.3	79
12	Phonon transport in large scale carbon-based disordered materials: Implementation of an efficient order-N and real-space Kubo methodology. *Physical Review B*, **2010**, 82,	3.3	39
11	Enhanced thermoelectric figure of merit in edge-disordered zigzag graphene nanoribbons. *Physical Review B*, **2010**, 81,	3.3	231
10	Electronic and magnetic properties of 3d transition-metal atom adsorbed graphene and graphene nanoribbons. *Physical Review B*, **2008**, 77,	3.3	420
9	First-principles approach to monitoring the band gap and magnetic state of a graphene nanoribbon via its vacancies. *Physical Review B*, **2008**, 78,	3.3	108
8	Spin confinement in the superlattices of graphene ribbons. *Applied Physics Letters*, **2008**, 92, 173118	3.4	68
7	Superlattice structures of graphene-based armchair nanoribbons. *Physical Review B*, **2008**, 78,	3.3	133
6	Oscillatory exchange coupling in magnetic molecules. *Journal of Physics Condensed Matter*, **2007**, 19, 216205	1.8	2
5	?Dynamics of phononic dissipation at the atomic scale: Dependence on internal degrees of freedom. *Physical Review B*, **2007**, 76,	3.3	9

4	Non-Markovian decoherence: A critique of the two-level approximation. *Journal of Magnetism and Magnetic Materials*, **2006**, 300, e579-e584	2.8	
3	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	
2	Size-dependent alternation of magnetoresistive properties in atomic chains. *Journal of Chemical Physics*, **2006**, 125, 121102	3.9	11
1	Spintronic properties of carbon-based one-dimensional molecular structures. *Physical Review B*, **2006**, 74,	3.3	21