Natalya A Zimbovskaya

List of Publications by Year
in descending order

45	531	759233	677142
papers	citations	12 h-index	22 g-index

45	45	45	656
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electron transport through molecular junctions. Physics Reports, 2011, 509, 1-87.	25.6	161
2	Seebeck effect in molecular junctions. Journal of Physics Condensed Matter, 2016, 28, 183002.	1.8	40
3	Synthesis and Characterization of Ultraâ€Fine Tin Oxide Fibers Using Electrospinning. Journal of the American Ceramic Society, 2005, 88, 2059-2063.	3.8	38
4	Vibration-induced inelastic effects in the electron transport through multisite molecular bridges. Journal of Chemical Physics, 2009, 131, 114703.	3.0	32
5	Transport Properties of Molecular Junctions. Springer Tracts in Modern Physics, 2013, , .	0.1	22
6	The effect of Coulomb interactions on nonlinear thermovoltage and thermocurrent in quantum dots. Journal of Chemical Physics, 2015, 142, 244310.	3.0	20
7	The effect of Coulomb interactions on thermoelectric properties of quantum dots. Journal of Chemical Physics, 2014, 140, 104706.	3.0	17
8	Quantum thermodynamics for driven dissipative bosonic systems. Physical Review B, 2018, 97, .	3.2	17
9	Poly(lactic acid)/poly(3â€hexylthiophene) composite nanofiber fabrication for electronic applications. Polymer International, 2016, 65, 503-507.	3.1	16
10	Negative differential resistance in molecular junctions: Effect of the electronic structure of the electrodes. Physical Review B, 2008, 78, .	3.2	14
11	The effect of dephasing on the thermoelectric efficiency of molecular junctions. Journal of Physics Condensed Matter, 2014, 26, 275303.	1.8	14
12	Ambipolar transport in CVD grown MoSe2 monolayer using an ionic liquid gel gate dielectric. AIP Advances, 2018, 8, .	1.3	14
13	Electronic transport mechanism in conducting polymer nanofibers. Physical Review B, 2005, 72, .	3.2	10
14	Inelastic electron transport in polymer nanofibers. Journal of Chemical Physics, 2008, 129, 114705.	3.0	10
15	Energy, Work, Entropy, and Heat Balance in Marcus Molecular Junctions. Journal of Physical Chemistry B, 2020, 124, 2632-2642.	2.6	10
16	Nanoparticle networks as chemoselective sensing devices. Journal of Chemical Physics, 2009, 130, 094702.	3.0	9
17	Thermoelectric properties of a double-dot system in serial configuration within the Coulomb blockade regime. Journal of Chemical Physics, 2020, 153, 124712.	3.0	9
18	Low-temperature electronic transport through macromolecules and characteristics of intramolecular electron transfer. Journal of Chemical Physics, 2005, 123, 114708.	3.0	8

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19	On the dissipative effects in the electron transport through conducting polymer nanofibers. Journal of Chemical Physics, 2007, 126, 184901.	3.0	6
20	Communication: Length-dependent thermopower of single-molecule junctions. Journal of Chemical Physics, 2016, 145, 221101.	3.0	6
21	Facile fabrication of carbon spheres/n-Si junction diodes based on sucrose. Journal of Materials Science: Materials in Electronics, 2016, 27, 13044-13051.	2.2	6
22	Thermally induced charge current through long molecules. Journal of Chemical Physics, 2018, 148, 024303.	3.0	6
23	Disordered grain growth in polycrystalline GaN obtained by the polymer-derived-ceramic route. RSC Advances, 2014, 4, 2634-2639.	3.6	5
24	Electron transport mechanisms in polymer-carbon sphere composites. Journal of Applied Physics, 2016, 120, .	2.5	5
25	Length-dependent Seebeck effect in single-molecule junctions beyond linear response regime. Journal of Chemical Physics, 2017, 146, .	3.0	5
26	Sensor response of electrospun poly(lactic acid)/polyaniline nanofibers to aliphatic alcohol vapors of varying sizes. , 2014, , .		4
27	Scattering theory of thermocurrent in quantum dots and molecules. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 74, 213-219.	2.7	4
28	Nonlinear thermoelectric transport in single-molecule junctions: the effect of electronâ€“phonon interactions. Journal of Physics Condensed Matter, 2016, 28, 295301.	1.8	4
29	Temperature-dependent charge transport mechanisms in carbon sphere/polyaniline composite. AIP Advances, 2017, 7, 125229.	1.3	4
30	On the de Haasâ€“van Alphen oscillations in quasi-two-dimensional metals: effect of the Fermi surface curvature. Journal of Physics Condensed Matter, 2007, 19, 176227.	1.8	3
31	Specific features of electric charge screening in few-layer graphene films. Journal of Physics Condensed Matter, 2013, 25, 045302.	1.8	3
32	Charge and heat current rectification by a double-dot system within the Coulomb blockade regime. Journal of Physics Condensed Matter, 2020, 32, 325302.	1.8	3
33	Quantum oscillations in the high frequency magnetoacoustic response of a quasi-two-dimensional metal. Journal of Physics Condensed Matter, 2009, 21, 415703.	1.8	1
34	Thermoelectric efficiency of single-molecule junctions with long molecular linkers. Journal of Physics Condensed Matter, 2018, 30, 305301.	1.8	1
35	Rectifying effect in a MoS2 monolayer crossed with an electro-spun PEDOT-PSS nano-ribbon. SN Applied Sciences, 2019, 1, 1.	2.9	1
36	Gallium nanoparticles as novel inhibitors of Aî²40 aggregation. Materials Advances, 2021, 2, 5471-5478.	5.4	1

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37	Impurity charge compensation in graphene by a polarized ferroelectric polymer and its effect on charge transport near the Dirac point. AIP Advances, 2021, 11, .	1.3	1
38	Temperature dependent charge transport in ferroelectrically gated graphene far from the Dirac point. AIP Advances, 2022, 12, 075008.	1.3	1
39	Process Characterization of Ultra-fine Tin Oxide Fibers Synthesis. Materials Research Society Symposia Proceedings, 2006, 951, 17.	0.1	0
40	The Humacao Strange Matter Exhibition: Prem Brings Materials Science and Nanotechnology to Puerto Rican Communities. Materials Research Society Symposia Proceedings, 2008, 1105, 3011.	0.1	0
41	Electromagnetic quantum waves and their effect on the low temperature magnetoacoustic response of a quasi-two-dimensional metal. Journal of Physics Condensed Matter, 2011, 23, 215701.	1.8	0
42	Electric charge and potential distribution in twisted multilayer graphene. Journal of Applied Physics, 2013, 113, .	2.5	0
43	Ionic liquid gated poly(triaryl amine) thin film field effect transistor. Journal of Applied Polymer Science, 2021, 138, 50361.	2.6	0
44	Large enhancement of thermoelectric eï¬€ects in multiple quantum dots in a serial conï¬guration due to Coulomb interactions. Journal of Physics Condensed Matter, 2022, , .	1.8	0
45	Fano effect in a thermally induced transport through a triple quantum dot within the Coulomb blockade regime. Physica B: Condensed Matter, 2022, 643, 414164.	2.7	0