

Andrey S Vasenko

List of Publications by Year in descending order

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papers

1,068
citations

394286

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all docs

53
docs citations

53
times ranked

901
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient passivation of DY center in CH ₃ NH ₃ PbBr ₃ by chlorine: Quantum molecular dynamics. Nano Research, 2022, 15, 2112-2122.	5.8	28
2	Charge carrier nonadiabatic dynamics in non-metal doped graphitic carbon nitride. Journal of Chemical Physics, 2022, 156, 094702.	1.2	22
3	Ag ⁺ Bi Charge Redistribution Creates Deep Traps in Defective Cs ₂ AgBiBr ₆ : Machine Learning Analysis of Density Functional Theory. Journal of Physical Chemistry Letters, 2022, 13, 3645-3651.	2.1	18
4	Site-specific photolabile roadblocks for the study of transcription elongation in biologically complex systems. Communications Biology, 2022, 5, 457.	2.0	4
5	Suppression of fluctuations in a two-band superconductor with a quasi-one-dimensional band. Physical Review B, 2022, 105, .	1.1	5
6	<i>Ab initio</i> nonadiabatic molecular dynamics of charge carriers in metal halide perovskites. Nanoscale, 2021, 13, 10239-10265.	2.8	70
7	Disorder-Promoted Splitting in Quasiparticle Interference at Nesting Vectors. Journal of Physical Chemistry Letters, 2021, 12, 3127-3134.	2.1	7
8	Vortex Interactions and Clustering in Thin Superconductors. Journal of Physical Chemistry Letters, 2021, 12, 4172-4179.	2.1	5
9	Reentrant superconductivity in proximity to a topological insulator. Physical Review B, 2021, 103, .	1.1	5
10	Common Defects Accelerate Charge Carrier Recombination in CsSn ₃ without Creating Mid-Gap States. Journal of Physical Chemistry Letters, 2021, 12, 8699-8705.	2.1	31
11	Joule heating effects in high-transparency Josephson junctions. Physical Review B, 2021, 104, .	1.1	3
12	Edge Influence on Charge Carrier Localization and Lifetime in CH ₃ NH ₃ PbBr ₃ Perovskite: <i>Ab Initio</i> Quantum Dynamics Simulation. Journal of Physical Chemistry Letters, 2020, 11, 9100-9109.	2.1	39
13	Time-dependent Andreev reflection. Physical Review B, 2020, 102, .	1.1	5
14	Multiband Material with a Quasi-1D Band as a Robust High-Temperature Superconductor. Physical Review Letters, 2020, 125, 217003.	2.9	20
15	Anomalous current-voltage characteristics of SFIS Josephson junctions with weak ferromagnetic interlayers. Beilstein Journal of Nanotechnology, 2020, 11, 252-262.	1.5	6
16	Spontaneous pattern formation in superconducting films. Journal of Physics Condensed Matter, 2020, 32, 075403.	0.7	7
17	Record electron self-cooling in cold-electron bolometers with a hybrid superconductor-ferromagnetic nanoabsorber and traps. Scientific Reports, 2020, 10, 21961.	1.6	11
18	Anharmonicity Extends Carrier Lifetimes in Lead Halide Perovskites at Elevated Temperatures. Journal of Physical Chemistry Letters, 2019, 10, 6219-6226.	2.1	66

#	ARTICLE	IF	CITATIONS
19	Competitive 0 and $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ states in S/F/S trilayers: Multimode approach. <i>Physical Review B</i> , 2019, 100, .	1.1	11
20	Mono-Elemental Properties of 2D Black Phosphorus Ensure Extended Charge Carrier Lifetimes under Oxidation: Time-Domain Ab Initio Analysis. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1083-1091.	2.1	74
21	Magnetic and superconducting phase diagram of Nb/Gd/Nb trilayers. <i>Physical Review B</i> , 2018, 97, .	1.1	21
22	The role of the N-terminal domain of human apurinic/apyrimidinic endonuclease 1, APE1, in DNA glycosylase stimulation. <i>DNA Repair</i> , 2018, 64, 10-25.	1.3	30
23	Halide Composition Controls Electron-Hole Recombination in Cesium-Lead Halide Perovskite Quantum Dots: A Time Domain Ab Initio Study. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1872-1879.	2.1	103
24	Relaxation of nonequilibrium quasiparticles in mesoscopic size superconductors. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 343001.	0.7	13
25	Unconventional pairing in three-dimensional topological insulators with a warped surface state. <i>JETP Letters</i> , 2017, 105, 497-501.	0.4	9
26	Odd-frequency superconductivity induced in topological insulators with and without hexagonal warping. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 295502.	0.7	9
27	Nonequilibrium and relaxation effects in tunnel superconducting junctions. <i>Superconductor Science and Technology</i> , 2017, 30, 025011.	1.8	1
28	Interplay of the Inverse Proximity Effect and Magnetic Field in Out-of-Equilibrium Single-Electron Devices. <i>Physical Review Applied</i> , 2017, 7, .	1.5	6
29	Quantum-size effects in the loss function of Pb(111) thin films: An <i>ab initio</i> study. <i>Physical Review B</i> , 2017, 95, .	1.1	14
30	On the explanation of the paramagnetic Meissner effect in superconductor/ferromagnet heterostructures. <i>Europhysics Letters</i> , 2016, 116, 17005.	0.7	13
31	Electronic Properties of Carbon Nanotubes Intercalated with Li ⁺ and Mg ²⁺ : Effects of Ion Charge and Ion Solvation. <i>Journal of Physical Chemistry C</i> , 2016, 120, 26514-26521.	1.5	15
32	Influence of Disorder on Superconducting Correlations in Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 605-609.	0.8	13
33	Heat transport and electron cooling in ballistic normal-metal/spin-filter/superconductor junctions. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 383, 157-161.	1.0	7
34	Detection of small exchange fields in S/F structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 383, 175-179.	1.0	10
35	Giant mesoscopic fluctuations of the elastic cotunneling thermopower of a single-electron transistor. <i>Physical Review B</i> , 2015, 91, .	1.1	3
36	Controlling Exchange Coupling Strength in Ni x Cu _{1-x} Thin Films. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 1957-1961.	0.8	1

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37	Efficient electron refrigeration using superconductor/spin-filter devices. Applied Physics Letters, 2013, 103, .	1.5	36
38	Andreev Current and Subgap Conductance of Spin-Valve SFF Structures. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1951-1956.	0.8	5
39	Andreev current enhancement and subgap conductance of superconducting $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi mathvariant="italic"} \rangle \text{SFN} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ hybrid structures in the presence of a small spin-splitting magnetic field. Physical Review B, 2012, 86, .	1.1	23
40	Spectrum of Andreev bound states in Josephson junctions with a ferromagnetic insulator. Journal of Magnetism and Magnetic Materials, 2012, 324, 3467-3470.	1.0	8
41	Electron cooling in diffusive normal metalâ€“superconductor tunnel junctions with a spin-valve ferromagnetic interlayer. Physical Review B, 2012, 85, .	1.1	21
42	Current-voltage characteristics of tunnel Josephson junctions with a ferromagnetic interlayer. Physical Review B, 2011, 84, .	1.1	22
43	Tunneling Hamiltonian description of the atomic-scale $\text{O} \hat{\text{e}} \text{I} \text{e}$ transition in superconductor/ferromagnetic-insulator junctions. Physica C: Superconductivity and Its Applications, 2011, 471, 1199-1201.	0.6	0
44	Spatially resolved measurement of nonequilibrium quasiparticle relaxation in superconducting Al. Physical Review B, 2011, 83, .	1.1	37
45	Dissipative current in SIFS Josephson junctions. Physica C: Superconductivity and Its Applications, 2010, 470, 863-866.	0.6	1
46	Electron cooling by diffusive normal metalâ€“superconductor tunnel junctions. Physical Review B, 2010, 81, .	1.1	31
47	Magnetic interference patterns in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0 \langle \text{mml:mn} \rangle \langle \text{mml:mtext} \rangle \hat{\text{a}} \langle \text{mml:mtext} \rangle \langle \text{mml:mi} \rangle \text{I} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Josephson junctions: Effects of asymmetry between 0 and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \text{I} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ regions. Physical Review B, 2010, 81, .	1.1	50
48	Nonequilibrium Electron Cooling by NIS Tunnel Junctions. Journal of Low Temperature Physics, 2009, 154, 221-232.	0.6	21
49	Properties of tunnel Josephson junctions with a ferromagnetic interlayer. Physical Review B, 2008, 77, .	1.1	49
50	Multiparticle tunnelling in diffusive superconducting junctions. Superconductor Science and Technology, 2007, 20, 529-541.	1.8	6
51	Subgap current in superconducting tunnel junctions with diffusive electrodes. Physical Review B, 2006, 73, .	1.1	27
52	Nonequilibrium effects in tunnel Josephson junctions. Physical Review B, 2005, 72, .	1.1	26