

Andrey S Vasenko

List of Publications by Year in descending order

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52
papers

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citations

394286

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31
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docs citations

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901
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Halide Composition Controls Electron-Hole Recombination in Cesium-Lead Halide Perovskite Quantum Dots: A Time Domain Ab Initio Study. Journal of Physical Chemistry Letters, 2018, 9, 1872-1879. | 2.1 | 103 |
| 2 | Mono-Elemental Properties of 2D Black Phosphorus Ensure Extended Charge Carrier Lifetimes under Oxidation: Time-Domain Ab Initio Analysis. Journal of Physical Chemistry Letters, 2019, 10, 1083-1091. | 2.1 | 74 |
| 3 | Ab initio nonadiabatic molecular dynamics of charge carriers in metal halide perovskites. Nanoscale, 2021, 13, 10239-10265. | 2.8 | 70 |
| 4 | Anharmonicity Extends Carrier Lifetimes in Lead Halide Perovskites at Elevated Temperatures. Journal of Physical Chemistry Letters, 2019, 10, 6219-6226. | 2.1 | 66 |
| 5 | Magnetic interference patterns in Josephson junctions: Effects of asymmetry between 0 and π regions. Physical Review B, 2010, 81, . | 1.1 | 50 |
| 6 | Properties of tunnel Josephson junctions with a ferromagnetic interlayer. Physical Review B, 2008, 77, . | 1.1 | 49 |
| 7 | Edge Influence on Charge Carrier Localization and Lifetime in $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Perovskite: Ab Initio Quantum Dynamics Simulation. Journal of Physical Chemistry Letters, 2020, 11, 9100-9109. | 2.1 | 39 |
| 8 | Spatially resolved measurement of nonequilibrium quasiparticle relaxation in superconducting Al. Physical Review B, 2011, 83, . | 1.1 | 37 |
| 9 | Efficient electron refrigeration using superconductor/spin-filter devices. Applied Physics Letters, 2013, 103, . | 1.5 | 36 |
| 10 | Electron cooling by diffusive normal metal-superconductor tunnel junctions. Physical Review B, 2010, 81, . | 1.1 | 31 |
| 11 | 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 |
| 12 | The role of the N-terminal domain of human apurinic/aprimidinic endonuclease 1, APE1, in DNA glycosylase stimulation. DNA Repair, 2018, 64, 10-25. | 1.3 | 30 |
| 13 | Efficient passivation of DY center in $\text{CH}_3\text{NH}_3\text{PbBr}_3$ by chlorine: Quantum molecular dynamics. Nano Research, 2022, 15, 2112-2122. | 5.8 | 28 |
| 14 | Subgap current in superconducting tunnel junctions with diffusive electrodes. Physical Review B, 2006, 73, . | 1.1 | 27 |
| 15 | Nonequilibrium effects in tunnel Josephson junctions. Physical Review B, 2005, 72, . | 1.1 | 26 |
| 16 | Andreev current enhancement and subgap conductance of superconducting SFN hybrid structures in the presence of a small spin-splitting magnetic field. Physical Review B, 2012, 86, . | 1.1 | 23 |
| 17 | Current-voltage characteristics of tunnel Josephson junctions with a ferromagnetic interlayer. Physical Review B, 2011, 84, . | 1.1 | 22 |
| 18 | Charge carrier nonadiabatic dynamics in non-metal doped graphitic carbon nitride. Journal of Chemical Physics, 2022, 156, 094702. | 1.2 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Nonequilibrium Electron Cooling by NIS Tunnel Junctions. Journal of Low Temperature Physics, 2009, 154, 221-232. | 0.6 | 21 |
| 20 | Electron cooling in diffusive normal metal-superconductor tunnel junctions with a spin-valve ferromagnetic interlayer. Physical Review B, 2012, 85, . | 1.1 | 21 |
| 21 | Magnetic and superconducting phase diagram of Nb/Gd/Nb trilayers. Physical Review B, 2018, 97, . | 1.1 | 21 |
| 22 | Multiband Material with a Quasi-1D Band as a Robust High-Temperature Superconductor. Physical Review Letters, 2020, 125, 217003. | 2.9 | 20 |
| 23 | 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 |
| 24 | Electronic Properties of Carbon Nanotubes Intercalated with Li ⁺ and Mg ²⁺ : Effects of Ion Charge and Ion Solvation. Journal of Physical Chemistry C, 2016, 120, 26514-26521. | 1.5 | 15 |
| 25 | Quantum-size effects in the loss function of Pb(111) thin films: An <i>ab initio</i> study. Physical Review B, 2017, 95, . | 1.1 | 14 |
| 26 | On the explanation of the paramagnetic Meissner effect in superconductor/ferromagnet heterostructures. Europhysics Letters, 2016, 116, 17005. | 0.7 | 13 |
| 27 | Influence of Disorder on Superconducting Correlations in Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2016, 29, 605-609. | 0.8 | 13 |
| 28 | Relaxation of nonequilibrium quasiparticles in mesoscopic size superconductors. Journal of Physics Condensed Matter, 2018, 30, 343001. | 0.7 | 13 |
| 29 | Competitive 0 and π states in S/F/S trilayers: Multimode approach. Physical Review B, 2019, 100, . | 1.1 | 11 |
| 30 | Record electron self-cooling in cold-electron bolometers with a hybrid superconductor-ferromagnetic nanoabsorber and traps. Scientific Reports, 2020, 10, 21961. | 1.6 | 11 |
| 31 | Detection of small exchange fields in S/F structures. Journal of Magnetism and Magnetic Materials, 2015, 383, 175-179. | 1.0 | 10 |
| 32 | Unconventional pairing in three-dimensional topological insulators with a warped surface state. JETP Letters, 2017, 105, 497-501. | 0.4 | 9 |
| 33 | Odd-frequency superconductivity induced in topological insulators with and without hexagonal warping. Journal of Physics Condensed Matter, 2017, 29, 295502. | 0.7 | 9 |
| 34 | 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 |
| 35 | Heat transport and electron cooling in ballistic normal-metal/spin-filter/superconductor junctions. Journal of Magnetism and Magnetic Materials, 2015, 383, 157-161. | 1.0 | 7 |
| 36 | Spontaneous pattern formation in superconducting films. Journal of Physics Condensed Matter, 2020, 32, 075403. | 0.7 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Disorder-Promoted Splitting in Quasiparticle Interference at Nesting Vectors. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3127-3134. | 2.1 | 7 |
| 38 | Multiparticle tunnelling in diffusive superconducting junctions. <i>Superconductor Science and Technology</i> , 2007, 20, 529-541. | 1.8 | 6 |
| 39 | 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 |
| 40 | Anomalous current-voltage characteristics of SFIS Josephson junctions with weak ferromagnetic interlayers. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 252-262. | 1.5 | 6 |
| 41 | Andreev Current and Subgap Conductance of Spin-Valve SFF Structures. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 1951-1956. | 0.8 | 5 |
| 42 | Time-dependent Andreev reflection. <i>Physical Review B</i> , 2020, 102, . | 1.1 | 5 |
| 43 | Vortex Interactions and Clustering in Thin Superconductors. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4172-4179. | 2.1 | 5 |
| 44 | Reentrant superconductivity in proximity to a topological insulator. <i>Physical Review B</i> , 2021, 103, . | 1.1 | 5 |
| 45 | Suppression of fluctuations in a two-band superconductor with a quasi-one-dimensional band. <i>Physical Review B</i> , 2022, 105, . | 1.1 | 5 |
| 46 | Site-specific photolabile roadblocks for the study of transcription elongation in biologically complex systems. <i>Communications Biology</i> , 2022, 5, 457. | 2.0 | 4 |
| 47 | Giant mesoscopic fluctuations of the elastic cotunneling thermopower of a single-electron transistor. <i>Physical Review B</i> , 2015, 91, . | 1.1 | 3 |
| 48 | Joule heating effects in high-transparency Josephson junctions. <i>Physical Review B</i> , 2021, 104, . | 1.1 | 3 |
| 49 | Dissipative current in SIFS Josephson junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, 863-866. | 0.6 | 1 |
| 50 | Controlling Exchange Coupling Strength in Ni x Cu1-x Thin Films. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 1957-1961. | 0.8 | 1 |
| 51 | Nonequilibrium and relaxation effects in tunnel superconducting junctions. <i>Superconductor Science and Technology</i> , 2017, 30, 025011. | 1.8 | 1 |
| 52 | Tunneling Hamiltonian description of the atomic-scale 0- π transition in superconductor/ferromagnetic-insulator junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2011, 471, 1199-1201. | 0.6 | 0 |