

Roberto Rosati

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

491
citations

758635
12
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676716
22
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26
all docs

26
docs citations

26
times ranked

362
citing authors

| # | ARTICLE | | IF | CITATIONS |
|----|---|-----|----|-----------|
| 1 | Microscopic modeling of exciton-polariton diffusion coefficients in atomically thin semiconductors. Physical Review Materials, 2022, 6, . | 0.9 | 4 | |
| 2 | Nonclassical Exciton Diffusion in Monolayer $\text{WSe}_{2\text{--}40}$ $\text{xmlNs:mml="http://www.w3.org/1998/Math/MathML"} \\ \text{display="inline"} > \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{WSe} \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle$ Physical Review Letters, 2021, 127, 076801. | 2.9 | 40 | |
| 3 | Strain-dependent exciton diffusion in transition metal dichalcogenides. 2D Materials, 2021, 8, 015030. | 2.0 | 21 | |
| 4 | Electron Dynamics in a Two-Dimensional Nanobubble: A Two-Level System Based on Spatial Density. Nano Letters, 2021, 21, 9896-9902. | 4.5 | 3 | |
| 5 | Non-equilibrium diffusion of dark excitons in atomically thin semiconductors. Nanoscale, 2021, 13, 19966-19972. | 2.8 | 6 | |
| 6 | Dark exciton anti-funneling in atomically thin semiconductors. Nature Communications, 2021, 12, 7221. | 5.8 | 35 | |
| 7 | Negative effective excitonic diffusion in monolayer transition metal dichalcogenides. Nanoscale, 2020, 12, 356-363. | 2.8 | 37 | |
| 8 | Temporal Evolution of Low-Temperature Phonon Sidebands in Transition Metal Dichalcogenides. ACS Photonics, 2020, 7, 2756-2764. | 3.2 | 20 | |
| 9 | Exciton diffusion in monolayer semiconductors with suppressed disorder. Physical Review B, 2020, 101, . | 1.1 | 74 | |
| 10 | Effective detection of spatio-temporal carrier dynamics by carrier capture. Journal of Physics Condensed Matter, 2019, 31, 28LT01. | 0.7 | 3 | |
| 11 | Exciton Propagation and Halo Formation in Two-Dimensional Materials. Nano Letters, 2019, 19, 7317-7323. | 4.5 | 64 | |
| 12 | Spatiotemporal dynamics of Coulomb-correlated carriers in semiconductors. Physical Review B, 2019, 99, . | 1.1 | 4 | |
| 13 | Spatial control of carrier capture in two-dimensional materials: Beyond energy selection rules. Physical Review B, 2018, 98, . | 1.1 | 9 | |
| 14 | Lindblad approach to spatiotemporal quantum dynamics of phonon-induced carrier capture processes. Physical Review B, 2017, 95, . | 1.1 | 12 | |
| 15 | Spatio-Temporal Dynamics of Carrier Capture Processes: Simulation of Optical Signals. Acta Physica Polonica A, 2017, 132, 372-375. | 0.2 | 5 | |
| 16 | Electron-phonon coupling in metallic carbon nanotubes: Dispersionless electron propagation despite dissipation. Physical Review B, 2015, 92, . | 1.1 | 13 | |
| 17 | Dispersionless propagation of electron wavepackets in single-walled carbon nanotubes. Applied Physics Letters, 2015, 106, 243101. | 1.5 | 10 | |
| 18 | Phonon-induced quantum diffusion in Carbon-based materials. Journal of Physics: Conference Series, 2015, 647, 012045. | 0.8 | 0 | |

| # | ARTICLE | | IF | CITATIONS |
|----|---|--|-----|-----------|
| 19 | Microscopic treatment of energy dissipation and decoherence via many-body Lindblad superoperators. Journal of Physics: Conference Series, 2015, 647, 012027. | | 0.3 | 1 |
| 20 | Derivation of nonlinear single-particle equations via many-body Lindblad superoperators: A density-matrix approach. Physical Review B, 2014, 90, . | | 1.1 | 38 |
| 21 | Microscopic modeling of quantum devices at high carrier densities via Lindblad-type scattering superoperators. , 2014, , . | | 0 | |
| 22 | Scattering nonlocality in quantum charge transport: Application to semiconductor nanostructures. Physical Review B, 2014, 89, . | | 1.1 | 20 |
| 23 | Quantum diffusion due to scattering non-locality in nanoscale semiconductors. Europhysics Letters, 2014, 105, 17010. | | 0.7 | 6 |
| 24 | Phonon-induced quantum diffusion in semiconductors. , 2014, , . | | 0 | |
| 25 | Microscopic modeling of scattering quantum non-locality in semiconductor nanostructures. Applied Physics Letters, 2013, 103, 113105. | | 1.5 | 12 |
| 26 | Wigner-function formalism applied to semiconductor quantum devices: Failure of the conventional boundary condition scheme. Physical Review B, 2013, 88, . | | 1.1 | 54 |