

Tatiana G Rappoport

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,196
citations

430874

18
h-index

377865

34
g-index

51
all docs

51
docs citations

51
times ranked

1489
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Orbital Hall effect in bilayer transition metal dichalcogenides: From the intra-atomic approximation to the Bloch states orbital magnetic moment approach. <i>Physical Review B</i> , 2022, 105, . | 3.2 | 11 |
| 2 | Disentangling Orbital and Valley Hall Effects in Bilayers of Transition Metal Dichalcogenides. <i>Physical Review Letters</i> , 2021, 126, 056601. | 7.8 | 55 |
| 3 | Topological Graphene Plasmons in a Plasmonic Realization of the Su-Schrieffer-Heeger Model. <i>ACS Photonics</i> , 2021, 8, 1817-1823. | 6.6 | 15 |
| 4 | Decoding the DC and optical conductivities of disordered MoS ₂ films: an inverse problem. <i>New Journal of Physics</i> , 2021, 23, 073035. | 2.9 | 2 |
| 5 | Orbital magnetoelectric effect in zigzag nanoribbons of p -band systems. <i>Physical Review B</i> , 2021, 104, . | 3.2 | 13 |
| 6 | Cysne et al. Reply:. <i>Physical Review Letters</i> , 2021, 127, 149702. | 7.8 | 1 |
| 7 | Understanding the Electromagnetic Response of Graphene/Metallic Nanostructures Hybrids of Different Dimensionality. <i>ACS Photonics</i> , 2020, 7, 2302-2308. | 6.6 | 15 |
| 8 | KITE: high-performance accurate modelling of electronic structure and response functions of large molecules, disordered crystals and heterostructures. <i>Royal Society Open Science</i> , 2020, 7, 191809. | 2.4 | 30 |
| 9 | Far-field excitation of single graphene plasmon cavities with ultracompressed mode volumes. <i>Science</i> , 2020, 368, 1219-1223. | 12.6 | 114 |
| 10 | Two-dimensional orbital Hall insulators. <i>Physical Review B</i> , 2020, 101, . | 3.2 | 26 |
| 11 | Orbital Hall insulating phase in transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2020, 101, . | 3.2 | 45 |
| 12 | Topological photonic Tamm states and the Su-Schrieffer-Heeger model. <i>Physical Review A</i> , 2020, 101, . | 2.5 | 29 |
| 13 | Spin and Charge Transport of Multiorbital Quantum Spin Hall Insulators. <i>Physical Review Letters</i> , 2019, 122, 196601. | 7.8 | 23 |
| 14 | Quantum Hall effect in graphene with interface-induced spin-orbit coupling. <i>Physical Review B</i> , 2018, 97, . | 3.2 | 20 |
| 15 | Shubnikov-de Haas oscillations in the anomalous Hall conductivity of Chern insulators. <i>Physical Review B</i> , 2018, 98, . | 3.2 | 3 |
| 16 | Crystal-field effects in graphene with interface-induced spin-orbit coupling. <i>Physical Review B</i> , 2018, 98, . | 3.2 | 22 |
| 17 | Kubo-Bastin approach for the spin Hall conductivity of decorated graphene. <i>2D Materials</i> , 2016, 3, 024007. | 4.4 | 26 |
| 18 | Numerical calculation of the Casimir-Polder interaction between a graphene sheet with vacancies and an atom. <i>Physical Review B</i> , 2016, 94, . | 3.2 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Magnetic effects in sulfur-decorated graphene. Scientific Reports, 2016, 6, 21460. | 3.3 | 11 |
| 20 | Controlling spin polarization in graphene by cloaking magnetic and spin-orbit scatterers. Physical Review B, 2016, 94, . | 3.2 | 1 |
| 21 | Cloaking resonant scatterers and tuning electron flow in graphene. Physical Review B, 2015, 91, . | 3.2 | 8 |
| 22 | Real-Space Calculation of the Conductivity Tensor for Disordered Topological Matter. Physical Review Letters, 2015, 114, 116602. | 7.8 | 78 |
| 23 | Extrinsic Spin Hall Effect Induced by Resonant Skew Scattering in Graphene. Physical Review Letters, 2014, 112, 066601. | 7.8 | 105 |
| 24 | Adatoms and Anderson localization in graphene. Physical Review B, 2014, 90, . | 3.2 | 13 |
| 25 | Vortex core magnetization dynamics induced by thermal excitation. Applied Physics Letters, 2012, 100, 112404. | 3.3 | 14 |
| 26 | Incommensurate spin-density-wave and metal-insulator transition in the one-dimensional periodic Anderson model. Physical Review B, 2011, 84, . | 3.2 | 2 |
| 27 | Magnetic exchange mechanism for electronic gap opening in graphene. Europhysics Letters, 2011, 96, 27010. | 2.0 | 8 |
| 28 | Kondo Quantum Criticality of Magnetic Adatoms in Graphene. Physical Review Letters, 2011, 106, 016801. | 7.8 | 132 |
| 29 | Magnetotransport in nanostructures: The role of inhomogeneous currents. Journal of Applied Physics, 2011, 109, 093904. | 2.5 | 7 |
| 30 | Superconducting transition in Pb/Co nanocomposites: effect of Co volume fraction and external magnetic field. European Physical Journal B, 2010, 76, 353-357. | 1.5 | 4 |
| 31 | The effect of impurities on spin-polarized Zeeman bound states in dilute magnetic semiconductor-superconductor hybrids. Journal of Applied Physics, 2010, 107, 034307. | 2.5 | 2 |
| 32 | Ion-beam modification of the magnetic properties of $\text{Ga}_x\text{Mn}_{1-x}\text{I}$. Physical Review B, 2010, 81, . | 3.2 | 18 |
| 33 | Magnetism and magnetotransport in disordered graphene. Physical Review B, 2009, 80, . | 3.2 | 31 |
| 34 | The effect of impurities on spin polarized Zeeman bound states in superconductor — Dilute magnetic semiconductor hybrids. , 2009, , . | | 0 |
| 35 | Controlled switching between paramagnetic and diamagnetic Meissner effects in superconductor-ferromagnet Pb-Co nanocomposites. Physical Review B, 2009, 80, . | 3.2 | 11 |
| 36 | Static and dynamic properties of vortices in anisotropic magnetic disks. Applied Physics Letters, 2008, 93, 112507. | 3.3 | 9 |

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|----|--|------|-----------|
| 37 | Spontaneous vortex phases in superconductor-ferromagnet Pb-Co nanocomposite films. Physical Review B, 2008, 78, . | 3.2 | 16 |
| 38 | Experimental observation of quantum entanglement in low-dimensional spin systems. Physical Review B, 2007, 75, . | 3.2 | 59 |
| 39 | Semiconductors: Nanostructures and applications in spintronics and quantum computation. AIP Conference Proceedings, 2006, , . | 0.4 | 1 |
| 40 | Effect of the Abrikosov vortex phase on spin and charge states in magnetic semiconductor-superconductor hybrids. Physical Review B, 2006, 74, . | 3.2 | 5 |
| 41 | Manipulating spin and charge in magnetic semiconductors using superconducting vortices. Nature, 2005, 435, 71-75. | 27.8 | 73 |
| 42 | Ferromagnetic/DMS hybrid structures: one- and zero-dimensional magnetic traps for quasiparticles. AIP Conference Proceedings, 2005, , . | 0.4 | 0 |
| 43 | Optical response of a ferromagnetic-diluted magnetic semiconductor hybrid structure. Applied Physics Letters, 2005, 86, 113103. | 3.3 | 12 |
| 44 | Zero- and one-dimensional magnetic traps for quasiparticles in diluted magnetic semiconductors. Physical Review B, 2005, 72, . | 3.2 | 15 |
| 45 | Anomalous behavior of spin-wave resonances in Ga _{1-x} Mn _x As thin films. Physical Review B, 2004, 69, . | 3.2 | 46 |
| 46 | The anisotropic Kondo necklace model. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 644-648. | 2.6 | 16 |
| 47 | Griffiths phases in the strongly disordered Kondo necklace model. Europhysics Letters, 2003, 61, 831-837. | 2.0 | 3 |
| 48 | Phase diagram of the Kondo necklace: a mean-field renormalization group approach. Journal of Physics A, 2001, 34, 10829-10837. | 1.6 | 5 |
| 49 | Role of disorder on the quantum critical point of a model for heavy fermions. Physical Review B, 2001, 64, . | 3.2 | 11 |
| 50 | Short-range antiferromagnetic correlations in Kondo insulators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 264, 497-504. | 2.1 | 11 |
| 51 | Domain Analysis and Magnetic Relaxation in Thin Films. International Journal of Modern Physics C, 1998, 09, 821-825. | 1.7 | 4 |