

Tatiana G Rappoport

List of Publications by Year in descending order

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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	Kondo Quantum Criticality of Magnetic Adatoms in Graphene. Physical Review Letters, 2011, 106, 016801.	7.8	132
2	Far-field excitation of single graphene plasmon cavities with ultracompressed mode volumes. Science, 2020, 368, 1219-1223.	12.6	114
3	Extrinsic Spin Hall Effect Induced by Resonant Skew Scattering in Graphene. Physical Review Letters, 2014, 112, 066601.	7.8	105
4	Real-Space Calculation of the Conductivity Tensor for Disordered Topological Matter. Physical Review Letters, 2015, 114, 116602.	7.8	78
5	Manipulating spin and charge in magnetic semiconductors using superconducting vortices. Nature, 2005, 435, 71-75.	27.8	73
6	Experimental observation of quantum entanglement in low-dimensional spin systems. Physical Review B, 2007, 75, .	3.2	59
7	Disentangling Orbital and Valley Hall Effects in Bilayers of Transition Metal Dichalcogenides. Physical Review Letters, 2021, 126, 056601.	7.8	55
8	Anomalous behavior of spin-wave resonances in Ga _{1-x} Mn _x As thin films. Physical Review B, 2004, 69, .	3.2	46
9	Orbital Hall insulating phase in transition metal dichalcogenide monolayers. Physical Review B, 2020, 101, .	3.2	45
10	Magnetism and magnetotransport in disordered graphene. Physical Review B, 2009, 80, .	3.2	31
11	KITE: high-performance accurate modelling of electronic structure and response functions of large molecules, disordered crystals and heterostructures. Royal Society Open Science, 2020, 7, 191809.	2.4	30
12	Topological photonic Tamm states and the Su-Schrieffer-Heeger model. Physical Review A, 2020, 101, .	2.5	29
13	Kubo-Bastin approach for the spin Hall conductivity of decorated graphene. 2D Materials, 2016, 3, 024007.	4.4	26
14	Two-dimensional orbital Hall insulators. Physical Review B, 2020, 101, .	3.2	26
15	Spin and Charge Transport of Multiorbital Quantum Spin Hall Insulators. Physical Review Letters, 2019, 122, 196601.	7.8	23
16	Crystal-field effects in graphene with interface-induced spin-orbit coupling. Physical Review B, 2018, 98, .	3.2	22
17	Quantum Hall effect in graphene with interface-induced spin-orbit coupling. Physical Review B, 2018, 97, .	3.2	20
18	Ion-beam modification of the magnetic properties of $Ga_{1-x}Mn_xAs$ thin films. Physical Review B, 2010, 81, .	3.2	18

#	ARTICLE	IF	CITATIONS
19	The anisotropic Kondo necklace model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 344, 644-648.	2.6	16
20	Spontaneous vortex phases in superconductor-ferromagnet Pb-Co nanocomposite films. <i>Physical Review B</i> , 2008, 78, .	3.2	16
21	Zero- and one-dimensional magnetic traps for quasiparticles in diluted magnetic semiconductors. <i>Physical Review B</i> , 2005, 72, .	3.2	15
22	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
23	Understanding the Electromagnetic Response of Graphene/Metallic Nanostructures Hybrids of Different Dimensionality. <i>ACS Photonics</i> , 2020, 7, 2302-2308.	6.6	15
24	Topological Graphene Plasmons in a Plasmonic Realization of the Su-Schrieffer-Heeger Model. <i>ACS Photonics</i> , 2021, 8, 1817-1823.	6.6	15
25	Vortex core magnetization dynamics induced by thermal excitation. <i>Applied Physics Letters</i> , 2012, 100, 112404.	3.3	14
26	Adatoms and Anderson localization in graphene. <i>Physical Review B</i> , 2014, 90, .	3.2	13
27	Orbital magnetoelectric effect in zigzag nanoribbons of p -band systems. <i>Physical Review B</i> , 2021, 104, .	3.2	13
28	Optical response of a ferromagnetic-diluted magnetic semiconductor hybrid structure. <i>Applied Physics Letters</i> , 2005, 86, 113103.	3.3	12
29	Short-range antiferromagnetic correlations in Kondo insulators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 264, 497-504.	2.1	11
30	Role of disorder on the quantum critical point of a model for heavy fermions. <i>Physical Review B</i> , 2001, 64, .	3.2	11
31	Controlled switching between paramagnetic and diamagnetic Meissner effects in superconductor-ferromagnet Pb-Co nanocomposites. <i>Physical Review B</i> , 2009, 80, .	3.2	11
32	Magnetic effects in sulfur-decorated graphene. <i>Scientific Reports</i> , 2016, 6, 21460.	3.3	11
33	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
34	Static and dynamic properties of vortices in anisotropic magnetic disks. <i>Applied Physics Letters</i> , 2008, 93, 112507.	3.3	9
35	Magnetic exchange mechanism for electronic gap opening in graphene. <i>Europhysics Letters</i> , 2011, 96, 27010.	2.0	8
36	Cloaking resonant scatterers and tuning electron flow in graphene. <i>Physical Review B</i> , 2015, 91, .	3.2	8

#	ARTICLE	IF	CITATIONS
37	Magnetotransport in nanostructures: The role of inhomogeneous currents. Journal of Applied Physics, 2011, 109, 093904.	2.5	7
38	Phase diagram of the Kondo necklace: a mean-field renormalization group approach. Journal of Physics A, 2001, 34, 10829-10837.	1.6	5
39	Effect of the Abrikosov vortex phase on spin and charge states in magnetic semiconductor-superconductor hybrids. Physical Review B, 2006, 74, .	3.2	5
40	Domain Analysis and Magnetic Relaxation in Thin Films. International Journal of Modern Physics C, 1998, 09, 821-825.	1.7	4
41	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
42	Griffiths phases in the strongly disordered Kondo necklace model. Europhysics Letters, 2003, 61, 831-837.	2.0	3
43	Shubnikovâ€de Haas oscillations in the anomalous Hall conductivity of Chern insulators. Physical Review B, 2018, 98, .	3.2	3
44	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
45	Incommensurate spin-density-wave and metal-insulator transition in the one-dimensional periodic Anderson model. Physical Review B, 2011, 84, .	3.2	2
46	Decoding the DC and optical conductivities of disordered MoS2 films: an inverse problem. New Journal of Physics, 2021, 23, 073035.	2.9	2
47	Semiconductors: Nanostructures and applications in spintronics and quantum computation. AIP Conference Proceedings, 2006, , .	0.4	1
48	Controlling spin polarization in graphene by cloaking magnetic and spin-orbit scatterers. Physical Review B, 2016, 94, .	3.2	1
49	Cysne etÂal. Reply:. Physical Review Letters, 2021, 127, 149702.	7.8	1
50	Ferromagnetic/DMS hybrid structures: one- and zero-dimensional magnetic traps for quasiparticles. AIP Conference Proceedings, 2005, , .	0.4	0
51	The effect of impurities on spin polarized Zeeman bound states in superconductor — Dilute magnetic semiconductor hybrids. , 2009, , .		0