Dmitry V Fedorov

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7157025/publications.pdf

Version: 2024-02-01

23	669	759233 12	752698 20
papers	citations	h-index	g-index

23	23	23	679
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Extrinsic Spin Hall Effect from First Principles. Physical Review Letters, 2010, 104, 186403.	7.8	125
2	Extrinsic and Intrinsic Contributions to the Spin Hall Effect of Alloys. Physical Review Letters, 2011, 106, 056601.	7.8	98
3	Spin Hall angle versus spin diffusion length: Tailored by impurities. Physical Review B, 2010, 81, .	3.2	90
4	Spin polarization on Fermi surfaces of metals by the KKR method. Physical Review B, 2009, 80, .	3.2	59
5	Skew scattering in dilute ferromagnetic alloys. Physical Review B, 2014, 90, .	3.2	44
6	Impact of Electron-Impurity Scattering on the Spin Relaxation Time in Graphene: A First-Principles Study. Physical Review Letters, 2013, 110, 156602.	7.8	40
7	Quantum-Mechanical Relation between Atomic Dipole Polarizability and the van der Waals Radius. Physical Review Letters, 2018, 121, 183401.	7.8	40
8	Analysis of the giant spin Hall effect in Cu(Bi) alloys. Physical Review B, 2013, 88, .	3.2	29
9	Four-Dimensional Scaling of Dipole Polarizability in Quantum Systems. Physical Review Letters, 2022, 128, 070602.	7.8	20
10	Separation of the individual contributions to the spin Hall effect in dilute alloys within the first-principles Kubo-StÅ™eda approach. Physical Review B, 2015, 92, .	3.2	19
11	PERFECT ALLOYS FOR SPIN HALL CURRENT-INDUCED MAGNETIZATION SWITCHING. Spin, 2012, 02, 1250010.	1.3	18
12	Spin Hall and spin Nernst effect in dilute ternary alloys. Physical Review B, 2013, 87, .	3.2	17
13	Fine-Structure Constant Connects Electronic Polarizability and Geometric van-der-Waals Radius of Atoms. Journal of Physical Chemistry Letters, 2021, 12, 9488-9492.	4.6	15
14	Enhancement of the spin Hall angle by quantum confinement. Physical Review B, 2012, 85, .	3.2	12
15	Quantum framework for describing retarded and nonretarded molecular interactions in external electric fields. Physical Review Research, 2022, 4, .	3.6	11
16	Quantum-mechanical force balance between multipolar dispersion and Pauli repulsion in atomic van der Waals dimers. Physical Review Research, 2021, 3, .	3.6	9
17	Spin and charge currents induced by the spin Hall and anomalous Hall effects upon crossing ferromagnetic/nonmagnetic interfaces. Physical Review B, 2019, 99, .	3.2	8
18	Colossal spin Hall effect in ultrathin metallic films. Physical Review B, 2014, 90, .	3.2	6

#	Article	IF	Citations
19	Molecular Interactions Induced by a Static Electric Field in Quantum Mechanics and Quantum Electrodynamics. Journal of Physical Chemistry Letters, 2022, 13, 2197-2204.	4.6	6
20	Nonlocal anomalous Hall effect in ternary alloys based on noble metals. Physical Review B, 2016, 94, .	3.2	3
21	Spin Hall effect in two-dimensional systems within the relativistic phase shift model. Physical Review B, 2015, 92, .	3.2	0
22	Impact of crystalline anisotropy on the extrinsic spin Hall effect in ultrathin films. Physical Review B, 2020, 102, .	3.2	0
23	Seebeck effect in nanomagnets. Journal of Physics Condensed Matter, 2022, 34, 085801.	1.8	0