

R Matthias Geilhufe

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

733
citations

567281

15
h-index

526287

27
g-index

30
all docs

30
docs citations

30
times ranked

1096
citing authors

#	ARTICLE	IF	CITATIONS
1	Stabilizing the magnetic moment of single holmium atoms by symmetry. Nature, 2013, 503, 242-246.	27.8	129
2	Organic materials database: An open-access online database for data mining. PLoS ONE, 2017, 12, e0171501.	2.5	65
3	Dirac materials for sub-MeV dark matter detection: New targets and improved formalism. Physical Review D, 2020, 101, .	4.7	58
4	Exchange interaction and its tuning in magnetic binary chalcogenides. Physical Review B, 2014, 89, .	3.2	57
5	Band Gap Prediction for Large Organic Crystal Structures with Machine Learning. Advanced Quantum Technologies, 2019, 2, 1900023.	3.9	51
6	Numerical solution of the relativistic single-site scattering problem for the Coulomb and the Mathieu potential. Journal of Physics Condensed Matter, 2015, 27, 435202.	1.8	40
7	Magnetic Excitations of Rare Earth Atoms and Clusters on Metallic Surfaces. Nano Letters, 2012, 12, 4805-4809.	9.1	37
8	Magnetic and Electronic Properties of Complex Oxides from First-Principles. Physica Status Solidi (B): Basic Research, 2020, 257, 1900671.	1.5	31
9	Materials Informatics for Dark Matter Detection. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800293.	2.4	30
10	Three-dimensional organic Dirac-line materials due to nonsymmorphic symmetry: A data mining approach. Physical Review B, 2017, 95, .	3.2	29
11	Data Mining for Three-Dimensional Organic Dirac Materials: Focus on Space Group 19. Scientific Reports, 2017, 7, 7298.	3.3	25
12	Dynamically induced magnetism in KTaO_3 . Physical Review Research, 2021, 3, .	3.6	21
13	Effect of hydrostatic pressure and uniaxial strain on the electronic structure of PbTe . Physical Review B, 2015, 92, .	3.2	18
14	Towards novel organic high- T_c superconductors: Data mining using density of states similarity search. Physical Review Materials, 2018, 2, .	2.4	18
15	GTPack: A Mathematica Group Theory Package for Application in Solid-State Physics and Photonics. Frontiers in Physics, 2018, 6, .	2.1	17
16	Computational search for Dirac and Weyl nodes in f-electron antiperovskites. Physical Review B, 2019, 99, .	3.2	13
17	Instability of the topological surface state in Bi_2Te_3 upon deposition of gold. Physical Review B, 2017, 95, .	2.2	12
18	Symmetry analysis of odd- and even-frequency superconducting gap symmetries for time-reversal symmetric interactions. Physical Review B, 2018, 97, .	3.2	12

#	ARTICLE	IF	CITATIONS
19	Dynamic electron-phonon and spin-phonon interactions due to inertia. Physical Review Research, 2022, 4, .	3.6	11
20	Chemical Strain Induced Tilted Dirac Nodes in $(\text{BEDT-TTF})_2\text{X}_3$ ($\text{X} = \text{I}, \text{Cl}, \text{Br}, \text{F}$) Based Charge Transfer Salts. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800081.	2.4	9
21	$(\text{BEDT-TTF})_2\text{X}_3$ ($\text{X} = \text{I}, \text{Cl}, \text{Br}, \text{F}$) Based Charge Transfer Salts. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800081.		