

# Wolfram Hergert

## List of Publications by Year in descending order

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29  
papers

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citations

567281

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552781

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all docs

30  
docs citations

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times ranked

1230  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of surface band bending on a narrow band gap semiconductor: Tunneling atomic force studies of graphite with Bernal and rhombohedral stacking orders. Physical Review Materials, 2021, 5, .	2.4	5
2	Defect-Induced Magnetism in Nonmagnetic Oxides: Basic Principles, Experimental Evidence, and Possible Devices with ZnO and TiO <sub>2</sub> . Physica Status Solidi (B): Basic Research, 2020, 257, 1900623.	1.5	26
3	Quasicrystals and their Approximants in 2D Ternary Oxides. Physica Status Solidi (B): Basic Research, 2020, 257, 1900624.	1.5	13
4	Magnetic Structure of Bulk GdMnO <sub>3</sub> : Influence of Strain. Physica Status Solidi (B): Basic Research, 2020, 257, 1900632.	1.5	3
5	Electronic and Magnetic Properties of BaFeO <sub>3</sub> on the Pt(111) Surface in a Quasicrystalline Approximant Structure. Physica Status Solidi (B): Basic Research, 2020, 257, 1900649.	1.5	4
6	Titanium 3d ferromagnetism with perpendicular anisotropy in defective anatase. Physical Review B, 2020, 101, .	3.2	10
7	Magnetic and Electronic Properties of Complex Oxides from First-Principles. Physica Status Solidi (B): Basic Research, 2020, 257, 1900671.	1.5	31
8	Theoretical investigation of iron incorporation in hexagonal barium titanate. Physical Review B, 2019, 100, .	3.2	6
9	First-principles investigations of the magnetic phase diagram of $GdMnO_3$ . Physical Review B, 2019, 99, .	3.2	9
10	Analysis of the scattering properties of 3D non-spherical plasmonic nanoparticles accounting for non-local effects. Journal of Modern Optics, 2018, 65, 1778-1786.	1.3	11
11	GTPack: A Mathematica Group Theory Package for Application in Solid-State Physics and Photonics. Frontiers in Physics, 2018, 6, .	2.1	17
12	Variation of magnetic properties of Sr <sub>2</sub> FeMoO <sub>6</sub> due to oxygen vacancies. Journal of Physics Condensed Matter, 2018, 30, 305801.	1.8	21
13	Tuning the probability of defect formation via substrate strains in Sr <sub>2</sub> FeMoO <sub>6</sub> thin films. Physical Review Materials, 2018, 2, .	2.4	17
14	Producing ZnFe <sub>2</sub> O <sub>4</sub> thin films from ZnO/FeO multilayers. Applied Surface Science, 2017, 393, 256-261.	6.1	10
15	Toward Versatile Sr <sub>2</sub> FeMoO <sub>6</sub> -Based Spintronics by Exploiting Nanoscale Defects. ACS Applied Materials & Interfaces, 2016, 8, 20440-20447.	8.0	30
16	Application of Generalized Mie Theory to EELS Calculations as a Tool for Optimization of Plasmonic Structures. Plasmonics, 2016, 11, 865-874.	3.4	7
17	Ab initio study of the p-hole magnetism at polar surfaces of ZnO: the role of correlations. Journal of Physics Condensed Matter, 2016, 28, 016003.	1.8	4
18	Chromium point defects in hexagonal BaTiO <sub>3</sub> : A comparative study of first-principles calculations and experiments. Physical Review B, 2015, 91, .	3.2	17

#	ARTICLE	IF	CITATIONS
19	Magnetic properties of defect-free and oxygen-deficient cubic $\text{SrCoO}_{3-\delta}$ . Physical Review B, 2015, 92, .	3.2	32
20	Effect of hydrostatic pressure and uniaxial strain on the electronic structure of $\text{Pb}_{1-x}\text{Sn}_x$ . Physical Review B, 2015, 92, .	3.2	18
21	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
22	Study of charged defects for substitutionally doped chromium in hexagonal barium titanate from first-principles theory. Physica Status Solidi - Rapid Research Letters, 2014, 8, 527-531.	2.4	15
23	First-principles study of uniaxial strained and bent ZnO wires. Physical Review B, 2014, 89, .	3.2	22
24	Oxygen-vacancy-induced local ferromagnetism as a driving mechanism in enhancing the magnetic response of ferrites. Physical Review B, 2014, 89, .	3.2	80
25	Defect-Induced Magnetism in Solids. IEEE Transactions on Magnetics, 2013, 49, 4668-4674.	2.1	87
26	Elastic anomalies and long/short-range ordering effects: A first-principles investigation of the $\text{AgPd}_{1-x}\text{Cu}_x$ solid solution. Physical Review B, 2012, 86, .	3.2	8
27	Room-temperature-induced surface ferromagnetism: First-principles study. Physical Review B, 2011, 84, .	3.2	22
28	Exchange coupling in transition metal monoxides: Electronic structure calculations. Physical Review B, 2009, 80, .	3.2	107
29	Orientation-dependent electron-energy-loss spectroscopy of $\text{TiO}_2$ : A comparison of theory and experiment. Physical Review B, 2006, 73, .	3.2	14