

Gerd Bergmann

List of Publications by Year in descending order

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57
papers

2,687
citations

623574

14
h-index

197736

49
g-index

58
all docs

58
docs citations

58
times ranked

2317
citing authors

#	ARTICLE	IF	CITATIONS
1	Weak localization in thin films. Physics Reports, 1984, 107, 1-58.	10.3	1,994
2	Template-based Synthesis and Magnetic Properties of Cobalt Nanotube Arrays. Advanced Materials, 2008, 20, 4575-4578.	11.1	92
3	Shape Anisotropy and Magnetization Modulation in Hexagonal Cobalt Nanowires. Advanced Functional Materials, 2008, 18, 1573-1578.	7.8	68
4	Mystery of the Alkali Metals: Giant Moments of Fe and Co on and in Cs films. Physical Review Letters, 1999, 83, 2417-2420.	2.9	51
5	WEAK LOCALIZATION AND ITS APPLICATIONS AS AN EXPERIMENTAL TOOL. International Journal of Modern Physics B, 2010, 24, 2015-2052.	1.0	36
6	Critical size of small particles for the development of resonances. Physical Review Letters, 1991, 67, 2545-2548.	2.9	35
7	Weak Antiferromagnetism of Monolayers and Multilayers of V on Au Films. Physical Review Letters, 1994, 73, 1715-1718.	2.9	32
8	Quantitative calculation of the spatial extension of the Kondo cloud. Physical Review B, 2008, 77, .	1.1	27
9	Frustrated magnetization in Co nanowires: Competition between crystal anisotropy and demagnetization energy. Physical Review B, 2008, 77, .	1.1	25
10	First observation of a fully magnetic 4d impurity on the surface of Au. Europhysics Letters, 1996, 33, 563-568.	0.7	24
11	Strongly Enhanced Magnetic Moments of Vanadium Impurities in Thin Films of Sodium and Potassium. Physical Review Letters, 2002, 88, 167202.	2.9	22
12	Magnetic Behavior of Na Films with Fe, Co, and Ni Impurities. Physical Review Letters, 2001, 86, 2138-2141.	2.9	16
13	Conductance of a Perfect Thin Film with Diffuse Surface Scattering. Physical Review Letters, 2005, 94, 106801.	2.9	14
14	Compact approximate solution to the Kondo problem. Physical Review B, 2007, 76, .	1.1	13
15	Friedel oscillations near Kondo impurities: A comparison of numerical calculation methods. Physical Review B, 2008, 78, .	1.1	12
16	Identification of local spin fluctuations by weak localization. Physical Review B, 1995, 52, R15687-R15690.	1.1	11
17	Critical analysis of the mean-field approximation for the calculation of the magnetic moment in the Friedel-Anderson impurity model. Physical Review B, 2006, 73, .	1.1	11
18	Compact approximate solution to the Friedel-Anderson impurity problem. Physical Review B, 2006, 74, .	1.1	11

#	ARTICLE	IF	CITATIONS
19	A new many-body solution of the Friedel resonance problem. Zeitschrift für Physik B-Condensed Matter, 1997, 102, 381-383.	1.1	9
20	Super strong effect of surface impurities on the resistance and Hall effect of quench condensed Cs films. European Physical Journal B, 1998, 5, 345-350.	0.6	9
21	Spin-orbit scattering as an experimental tool to measure spin currents. Physical Review B, 2001, 63, .	1.1	9
22	Title is missing!. European Physical Journal B, 2002, 26, 7-11.	0.6	9
23	Geometrical derivation of a new ground state formula for the n-electron Friedel resonance model. European Physical Journal B, 1998, 2, 233-235.	0.6	8
24	Oscillations of the magnetic polarization in a Kondo system at finite magnetic fields. European Physical Journal B, 2010, 73, 95-101.	0.6	7
25	Nickel on lead, magnetically dead or alive?. European Physical Journal B, 2010, 73, 155-160.	0.6	7
26	Density of states in the magnetic ground state of the Friedel-Anderson impurity. European Physical Journal B, 2010, 75, 497-504.	0.6	7
27	Friedel oscillation about a Friedel-Anderson impurity. European Physical Journal B, 2012, 85, 1.	0.6	7
28	The mystery of the alkali metals; the induced anomalous Hall effect in thin Cs films. European Physical Journal B, 2000, 13, 495-502.	0.6	5
29	Beckmann and Bergmann Reply:. Physical Review Letters, 2000, 85, 1584-1584.	2.9	5
30	Electronic transition of vanadium impurities in different alkali hosts. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E863-E864.	1.0	5
31	Numerical calculation of the fidelity for the Kondo and the Friedel-Anderson impurities. European Physical Journal B, 2011, 84, 273-281.	0.6	5
32	A Search for the Predicted Magnetic 5d Surface Atoms W and Re. Journal of Low Temperature Physics, 1998, 110, 1173-1184.	0.6	4
33	Indication of a ferromagnetic submonolayer of ruthenium on palladium. European Physical Journal B, 1998, 1, 229-232.	0.6	4
34	Spin-orbit scattering of Pb and Bi impurities in Cs, K, and Na films. Physical Review B, 1999, 60, 15621-15623.	1.1	4
35	The superconducting proximity effect as a tool to investigate metal films and interfaces. European Physical Journal B, 2004, 39, 199-205.	0.6	4
36	Analysis of the anomalous Hall effect in a double layer of a ferromagnetic and a normal metal. European Physical Journal B, 2006, 54, 19-25.	0.6	4

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37	Modest magnetic moments of Ti impurities on the surface and in the bulk of K, Rb, and Cs films. Physical Review B, 2002, 66, .	1.1	3
38	Giant moments of Fe and Co on and in rubidium and potassium films. European Physical Journal B, 2002, 26, 7-11.	0.6	3
39	Forced localization in thin K films, investigated with the superconducting proximity effect. Europhysics Letters, 2005, 69, 442-446.	0.7	3
40	Meservey-Tedrow effect in ferromagnet/superconductor/ferromagnet double tunnel junctions. Physical Review B, 2005, 71, .	1.1	3
41	A Compact Treatment of Singular Impurities Using the Artificial Friedel Resonance (FAIR) Technique. Journal of Superconductivity and Novel Magnetism, 2012, 25, 609-625.	0.8	3
42	Simulations of persistent current in disordered rings with axial magnetic field. European Physical Journal B, 2019, 92, 1.	0.6	3
43	Host-dependent electronic structure of vanadium impurities in different alkali metals. Physical Review B, 2003, 68, .	1.1	2
44	Induced spin currents in alkali films. Physical Review B, 2004, 70, .	1.1	2
45	Geometrical decay of the spin Hall effect measured in Fe(CsAu) ^{1/2} multilayers. Physical Review B, 2006, 74, .	1.1	2
46	Interplay between weak localization and quantized conductance. Zeitschrift für Physik B-Condensed Matter, 1997, 101, 411-414.	1.1	1
47	Electromagnetic fields of dipole currents. Physical Review B, 2007, 75, .	1.1	1
48	Inertial spin alignment in a circular magnetic nanotube. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2083-2086.	0.9	1
49	Spin accumulation in FSF single electron transistor. , 0, , .		0
50	Friedel artificially inserted resonance magnetic solution to the multichannel Friedel-Anderson problem. Physical Review B, 2010, 82, .	1.1	0
51	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \hat{I} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ interference of two Friedel resonances. Physical Review B, 2010, 82, .	1.1	0
52	Reply to "Comment on "Frustrated magnetization in Co nanowires: Competition between crystal anisotropy and demagnetization energy" Physical Review B, 2010, 82, .	1.1	0
53	Factorization of the -Electron Wave Function in the Kondo Ground State. , 2012, 2012, 1-6.		0
54	Phase Shift of the Asymmetric Friedel-Anderson Impurity. Journal of Low Temperature Physics, 2013, 171, 120-126.	0.6	0

#	ARTICLE	IF	CITATIONS
55	Range of the Kondo Cloud in Weakly Disordered Hosts. Journal of Superconductivity and Novel Magnetism, 2015, 28, 2109-2114.	0.8	0
56	Quantum theory of spin alignment in a circular magnetic nanotube. European Physical Journal B, 2015, 88, 1.	0.6	0
57	Anisotropic current induced in topological surface states due to spin-polarized tunneling from a ferromagnet. Journal of Applied Physics, 2020, 127, 073905.	1.1	0