

Gerd Bergmann

List of Publications by Year in descending order

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57
papers

2,687
citations

623188

14
h-index

197535

49
g-index

58
all docs

58
docs citations

58
times ranked

2317
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Simulations of persistent current in disordered rings with axial magnetic field. European Physical Journal B, 2019, 92, 1.	0.6	3
3	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
4	Range of the Kondo Cloud in Weakly Disordered Hosts. Journal of Superconductivity and Novel Magnetism, 2015, 28, 2109-2114.	0.8	0
5	Quantum theory of spin alignment in a circular magnetic nanotube. European Physical Journal B, 2015, 88, 1.	0.6	0
6	Phase Shift of the Asymmetric Friedel-Anderson Impurity. Journal of Low Temperature Physics, 2013, 171, 120-126.	0.6	0
7	Factorization of the ψ -Electron Wave Function in the Kondo Ground State. , 2012, 2012, 1-6.		0
8	Friedel oscillation about a Friedel-Anderson impurity. European Physical Journal B, 2012, 85, 1.	0.6	7
9	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
10	Numerical calculation of the fidelity for the Kondo and the Friedel-Anderson impurities. European Physical Journal B, 2011, 84, 273-281.	0.6	5
11	Oscillations of the magnetic polarization in a Kondo system at finite magnetic fields. European Physical Journal B, 2010, 73, 95-101.	0.6	7
12	Nickel on lead, magnetically dead or alive?. European Physical Journal B, 2010, 73, 155-160.	0.6	7
13	Density of states in the magnetic ground state of the Friedel-Anderson impurity. European Physical Journal B, 2010, 75, 497-504.	0.6	7
14	Friedel artificially inserted resonance magnetic solution to the multichannel Friedel-Anderson problem. Physical Review B, 2010, 82, .	1.1	0
15	$\langle \hat{I} \rangle$ interference of two Friedel resonances. Physical Review B, 2010, 82, .	1.1	0
16	Reply to "Comment on "Frustrated magnetization in Co nanowires: Competition between crystal anisotropy and demagnetization energy". Physical Review B, 2010, 82, .	1.1	0
17	WEAK LOCALIZATION AND ITS APPLICATIONS AS AN EXPERIMENTAL TOOL. International Journal of Modern Physics B, 2010, 24, 2015-2052.	1.0	36
18	Shape Anisotropy and Magnetization Modulation in Hexagonal Cobalt Nanowires. Advanced Functional Materials, 2008, 18, 1573-1578.	7.8	68

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19	Template-based Synthesis and Magnetic Properties of Cobalt Nanotube Arrays. <i>Advanced Materials</i> , 2008, 20, 4575-4578.	11.1	92
20	Quantitative calculation of the spatial extension of the Kondo cloud. <i>Physical Review B</i> , 2008, 77, .	1.1	27
21	Frustrated magnetization in Co nanowires: Competition between crystal anisotropy and demagnetization energy. <i>Physical Review B</i> , 2008, 77, .	1.1	25
22	Friedel oscillations near Kondo impurities: A comparison of numerical calculation methods. <i>Physical Review B</i> , 2008, 78, .	1.1	12
23	Compact approximate solution to the Kondo problem. <i>Physical Review B</i> , 2007, 76, .	1.1	13
24	Electromagnetic fields of dipole currents. <i>Physical Review B</i> , 2007, 75, .	1.1	1
25	Analysis of the anomalous Hall effect in a double layer of a ferromagnetic and a normal metal. <i>European Physical Journal B</i> , 2006, 54, 19-25.	0.6	4
26	Critical analysis of the mean-field approximation for the calculation of the magnetic moment in the Friedel-Anderson impurity model. <i>Physical Review B</i> , 2006, 73, .	1.1	11
27	Geometrical decay of the spin Hall effect measured in $\text{Fe}(\text{CsAu})^{1/2}$ multilayers. <i>Physical Review B</i> , 2006, 74, .	1.1	2
28	Compact approximate solution to the Friedel-Anderson impurity problem. <i>Physical Review B</i> , 2006, 74, .	1.1	11
29	Forced localization in thin K films, investigated with the superconducting proximity effect. <i>Europhysics Letters</i> , 2005, 69, 442-446.	0.7	3
30	Meservey-Tedrow effect in ferromagnet/superconductor/ferromagnet double tunnel junctions. <i>Physical Review B</i> , 2005, 71, .	1.1	3
31	Conductance of a Perfect Thin Film with Diffuse Surface Scattering. <i>Physical Review Letters</i> , 2005, 94, 106801.	2.9	14
32	Induced spin currents in alkali films. <i>Physical Review B</i> , 2004, 70, .	1.1	2
33	The superconducting proximity effect as a tool to investigate metal films and interfaces. <i>European Physical Journal B</i> , 2004, 39, 199-205.	0.6	4
34	Electronic transition of vanadium impurities in different alkali hosts. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E863-E864.	1.0	5
35	Host-dependent electronic structure of vanadium impurities in different alkali metals. <i>Physical Review B</i> , 2003, 68, .	1.1	2
36	Strongly Enhanced Magnetic Moments of Vanadium Impurities in Thin Films of Sodium and Potassium. <i>Physical Review Letters</i> , 2002, 88, 167202.	2.9	22

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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 aaand potassium films. European Physical Journal B, 2002, 26, 7-11.	0.6	3
39	Title is missing!. European Physical Journal B, 2002, 26, 7-11.	0.6	9
40	Spin-orbit scattering as an experimental tool to measure spin currents. Physical Review B, 2001, 63, .	1.1	9
41	Magnetic Behavior of Na Films with Fe, Co, and Ni Impurities. Physical Review Letters, 2001, 86, 2138-2141.	2.9	16
42	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
43	Beckmann and Bergmann Reply:. Physical Review Letters, 2000, 85, 1584-1584.	2.9	5
44	Spin-orbit scattering of Pb and Bi impurities in Cs, K, and Na films. Physical Review B, 1999, 60, 15621-15623.	1.1	4
45	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
46	A Search for the Predicted Magnetic 5d Surface Atoms W and Re. Journal of Low Temperature Physics, 1998, 110, 1173-1184.	0.6	4
47	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
48	Indication of a ferromagnetic submonolayer of ruthenium on palladium. European Physical Journal B, 1998, 1, 229-232.	0.6	4
49	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
50	Interplay between weak localization and quantized conductance. Zeitschrift FÃ¼r Physik B-Condensed Matter, 1997, 101, 411-414.	1.1	1
51	A new many-body solution of the Friedel resonance problem. Zeitschrift FÃ¼r Physik B-Condensed Matter, 1997, 102, 381-383.	1.1	9
52	First observation of a fully magnetic 4d impurity on the surface of Au. Europhysics Letters, 1996, 33, 563-568.	0.7	24
53	Identification of local spin fluctuations by weak localization. Physical Review B, 1995, 52, R15687-R15690.	1.1	11
54	Weak Antiferromagnetism of Monolayers and Multilayers of V on Au Films. Physical Review Letters, 1994, 73, 1715-1718.	2.9	32

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55	Critical size of small particles for the development of resonances. Physical Review Letters, 1991, 67, 2545-2548.	2.9	35
56	Weak localization in thin films. Physics Reports, 1984, 107, 1-58.	10.3	1,994
57	Spin accumulation in FSF single electron transistor. , 0, , .		0