Gerd Bergmann

List of Publications by Year
in descending order

57	2,687	623734	197818
papers	citations	14 h-index	49 g-index

58	58	58	2317
all docs	docs citations	times ranked	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.	2.5	0
2	Simulations of persistent current in disordered rings with axial magnetic field. European Physical Journal B, 2019, 92, 1.	1.5	3
3	Inertial spin alignment in a circular magnetic nanotube. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2083-2086.	2.1	1
4	Range of the Kondo Cloud in Weakly Disordered Hosts. Journal of Superconductivity and Novel Magnetism, 2015, 28, 2109-2114.	1.8	0
5	Quantum theory of spin alignment in a circular magnetic nanotube. European Physical Journal B, 2015, 88, 1.	1.5	0
6	Phase Shift of the Asymmetric Friedel-Anderson Impurity. Journal of Low Temperature Physics, 2013, 171, 120-126.	1.4	0
7	Factorization of the -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.	1.5	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.	1.8	3
10	Numerical calculation of the fidelity for the Kondo and the Friedel-Anderson impurities. European Physical Journal B, 2011, 84, 273-281.	1.5	5
11	Oscillations of the magnetic polarization in a Kondo system at finite magnetic fields. European Physical Journal B, 2010, 73, 95-101.	1.5	7
12	Nickel on lead, magnetically dead or alive?. European Physical Journal B, 2010, 73, 155-160.	1.5	7
13	Density of states in the magnetic ground state of the Friedel-Anderson impurity. European Physical Journal B, 2010, 75, 497-504.	1.5	7
14	Friedel artificially inserted resonance magnetic solution to the multichannel Friedel-Anderson problem. Physical Review B, 2010, 82, .	3.2	0
15	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î´</mml:mi></mml:math>interference of two Friedel resonances. Physical Review B, 2010, 82, .	3.2	0
16	Reply to â€œComment on â€˜Frustrated magnetization in Co nanowires: Competition between crystal anisotropy and demagnetization energyâ€™â€‰â€: Physical Review B, 2010, 82, .	3.2	0
17	WEAK LOCALIZATION AND ITS APPLICATIONS AS AN EXPERIMENTAL TOOL. International Journal of Modern Physics B, 2010, 24, 2015-2052.	2.0	36
18	Shape Anisotropy and Magnetization Modulation in Hexagonal Cobalt Nanowires. Advanced Functional Materials, 2008, 18, 1573-1578.	14.9	68

#	Article	IF	Citations
19	Templateâ€based Synthesis and Magnetic Properties of Cobalt Nanotube Arrays. Advanced Materials, 2008, 20, 4575-4578.	21.0	92
20	Quantitative calculation of the spatial extension of the Kondo cloud. Physical Review B, 2008, 77, .	3.2	27
21	Frustrated magnetization in Co nanowires: Competition between crystal anisotropy and demagnetization energy. Physical Review B, 2008, 77, .	3.2	25
22	Friedel oscillations near Kondo impurities: A comparison of numerical calculation methods. Physical Review B, 2008, 78, .	3.2	12
23	Compact approximate solution to the Kondo problem. Physical Review B, 2007, 76, .	3.2	13
24	Electromagnetic fields of dipole currents. Physical Review B, 2007, 75, .	3.2	1
25	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.	1.5	4
26	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, .	3.2	11
27	Geometrical decay of the spin Hall effect measured inFe(CsAu)Î½multilayers. Physical Review B, 2006, 74, .	3.2	2
28	Compact approximate solution to the Friedel-Anderson impurity problem. Physical Review B, 2006, 74, .	3.2	11
29	Forced localization in thin K films, investigated with the superconducting proximity effect. Europhysics Letters, 2005, 69, 442-446.	2.0	3
30	Meservey-Tedrow effect in ferromagnet/superconductor/ferromagnet double tunnel junctions. Physical Review B, 2005, 71, .	3.2	3
31	Conductance of a Perfect Thin Film with Diffuse Surface Scattering. Physical Review Letters, 2005, 94, 106801.	7.8	14
32	Induced spin currents in alkali films. Physical Review B, 2004, 70, .	3.2	2
33	The superconducting proximity effect as a tool to investigate metal films and interfaces. European Physical Journal B, 2004, 39, 199-205.	1.5	4
34	Electronic transition of vanadium impurities in different alkali hosts. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E863-E864.	2.3	5
35	Host-dependent electronic structure of vanadium impurities in different alkali metals. Physical Review B, 2003, 68, .	3.2	2
36	Strongly Enhanced Magnetic Moments of Vanadium Impurities in Thin Films of Sodium and Potassium. Physical Review Letters, 2002, 88, 167202.	7.8	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, .	3.2	3
38	Giant moments of Fe and Co on and in rubidium aaand potassium films. European Physical Journal B, 2002, 26, 7-11.	1.5	3
39	Title is missing!. European Physical Journal B, 2002, 26, 7-11.	1.5	9
40	Spin-orbit scattering as an experimental tool to measure spin currents. Physical Review B, 2001, 63, .	3.2	9
41	Magnetic Behavior of Na Films with Fe, Co, and Ni Impurities. Physical Review Letters, 2001, 86, 2138-2141.	7.8	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.	1.5	5
43	Beckmann and Bergmann Reply:. Physical Review Letters, 2000, 85, 1584-1584.	7.8	5
44	Spin-orbit scattering of Pb and Bi impurities in Cs, K, and Na films. Physical Review B, 1999, 60, 15621-15623.	3.2	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.	7.8	51
46	A Search for the Predicted Magnetic 5d Surface Atoms W and Re. Journal of Low Temperature Physics, 1998, 110, 1173-1184.	1.4	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.	1.5	9
48	Indication of a ferromagnetic submonolayer of ruthenium on palladium. European Physical Journal B, 1998, 1, 229-232.	1.5	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.	1.5	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.	2.0	24
53	Identification of local spin fluctuations by weak localization. Physical Review B, 1995, 52, R15687-R15690.	3.2	11
54	Weak Antiferromagnetism of Monolayers and Multilayers of V on Au Films. Physical Review Letters, 1994, 73, 1715-1718.	7.8	32

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55	Critical size of small particles for the development of resonances. Physical Review Letters, 1991, 67, 2545-2548.	7.8	35
56	Weak localization in thin films. Physics Reports, 1984, 107, 1-58.	25.6	1,994
57	Spin accumulation in FSF single electron transistor. , 0, , .		0