

Pedro Schlottmann

List of Publications by Year in descending order

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132
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201385

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132
all docs

132
docs citations

132
times ranked

2252
citing authors

#	ARTICLE	IF	CITATIONS
1	In-gap states of vortices at the surface of a topological insulator. Physica C: Superconductivity and Its Applications, 2022, 596, 1354047.	0.6	0
2	Slow crystalline electric field fluctuations in the Kondo lattice SmB_6 . Physical Review B, 2022, 105, .	1.1	4
3	Quasiparticle and Majorana states in spin-orbit coupled Sr_2O_7 : A study of Sr_2O_7 . Physical Review B, 2021, 103, .	0.6	1
4	Local density of states in a vortex at the surface of a topological insulator in a magnetic field. European Physical Journal B, 2021, 94, 1.	0.6	1
5	Ground state in proximity to a possible Kitaev spin liquid: The undistorted honeycomb iridate NaIrO_3 (0.60 \times 0.80). Physical Review B, 2021, 104, .	1.1	2
6	Lattice flexibility in Ca_3O_7 : Control of electrical transport via anisotropic magnetostriction. Physical Review B, 2021, 104, .	1.1	3
7	Bound fermion states in pinned vortices in the surface states of a superconducting topological insulator. Journal of Physics Condensed Matter, 2021, 33, 035604.	0.7	3
8	An STM Perspective on Hexaborides: Surface States of the Kondo Insulator SmB_6 . Advanced Quantum Technologies, 2021, 4, 2100102.	1.8	2
9	Linear and Nonlinear Two-Terminal Spin-Valve Effect from Chirality-Induced Spin Selectivity. ACS Nano, 2020, 14, 15983-15991.	7.3	47
10	Quest for quantum states via field-altering technology. Npj Quantum Materials, 2020, 5, .	1.8	4
11	Giant enhancement of the in-plane critical field for thin Al films via proximity coupling to a topological insulator. Physical Review B, 2020, 102, .	1.1	0
12	Physical properties of Sm_xB_6 single crystals. Physical Review B, 2019, 99, .	1.1	11
13	Edge singularities in the one-dimensional Bariev model. Nuclear Physics B, 2019, 949, 114808.	0.9	1
14	Instabilities of a Fermi Gas with Nested Fermi Surfaces. Annalen Der Physik, 2018, 530, 1700263.	0.9	3
15	The challenge of spin-orbit-tuned ground states in iridates: a key issues review. Reports on Progress in Physics, 2018, 81, 042502.	8.1	134
16	Exponents of Spectral Functions in the One-Dimensional Bose Gas. Condensed Matter, 2018, 3, 35.	0.8	2
17	Decoupling of magnetism and electric transport in single-crystal $\text{Sr}_2\text{A}_2\text{O}_7$. Physical Review B, 2018, 30, 245801.	0.7	6
18	Theory of Electron Spin Resonance in Ferromagnetically Correlated Heavy Fermion Compounds. Magnetochemistry, 2018, 4, 27.	1.0	9

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37	NMR relaxation in the topological Kondo insulator SmB_6 . Physical Review B, 2014, 90, .		
38	Challenging our understanding of quantum criticality. Physical Review B, 2014, 90, .		
39	Spin-density waves and the superconductivity dome in heavy electron systems with nested Fermi surfaces. Physical Review B, 2014, 89, .	1.1	4
40	Superfluid instability in ultra-cold gas of fermionic atoms with attractive potential in a one-dimensional trap. Journal of Physics: Conference Series, 2014, 529, 012013.	0.3	3
41	Pressure-driven Fermi surface reconstruction of chromium. Physical Review B, 2013, 88, .	1.1	3
42	Calculation of electric transport close to a Lifshitz transition in a high magnetic field. European Physical Journal B, 2013, 86, 1.	0.6	3
43	Tuning the J state via electron doping and pressure in the double-layered iridate SrIr_2O_7 . Physical Review B, 2013, 87, .	1.1	50
44	THE CONTRADICTORY PHYSICAL PROPERTIES AND EXTREME ANISOTROPY OF $\text{Ca}_3\text{Ru}_2\text{O}_7$. , 2013, , 179-214.		0
45	Observation of superconductivity and anomalous electrical resistivity in single-crystal IrTe_3 . Physical Review B, 2013, 87, .	1.1	8
46	Effects of spin-orbit interaction in the Hubbard chain with attractive interaction: Application to confined ultracold fermions. Physical Review B, 2013, 88, .	1.1	7
47	Microwave-induced excitations in the kagome system $\text{Pr}_3\text{Ga}_5\text{SiO}_{14}$. Physical Review B, 2013, 88, .	1.1	6
48	Spin-orbit tuned metal-insulator transitions in single-crystal SrIr_2O_7 . Physical Review B, 2013, 87, .	1.1	102
49	Effects of Eu doping on SmB_6 . Physical Review B, 2012, 85, .	1.1	15
50	Fermi gas with attractive potential and spin $S = 5/2$ atoms with attractive potential in a one-dimensional trap: Response functions for superfluidity and FFLO signatures. Physical Review B, 2012, 85, .		
51	for Sr_2IrO_7 . Physical Review B, 2012, 85, .	1.1	11
52	Magnetoelectric effect in NdCrTiO_3 . Physical Review B, 2012, 85, .	1.1	61
53	PHASE SEPARATION AND FFLO PHASES IN ULTRACOLD GAS OF $S = 5/2$ ATOMS WITH ATTRACTIVE POTENTIAL IN A ONE-DIMENSIONAL TRAP. Modern Physics Letters B, 2012, 26, 1230009.	1.0	6
54	Lattice-driven magnetoresistivity and metal-insulator transition in single-layered iridates. Physical Review B, 2011, 84, .	1.1	171

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55	Magnetic anisotropy and geometrical frustration in the Ising spin-chain system Sr5Rh4O12. Journal of Applied Physics, 2011, 109, 07E164.	1.1	3
56	Electron doped Sr2IrO4 (O _{1-x}) ₂ (0 ≤ x ≤ 0.04): Evolution of a disordered Jeff _x = 1/2 Mott insulator into an exotic metallic state. Journal of Applied Physics, 2011, 109, . Thermally activated exchange narrowing of the Cd	1.1	20
57	fine structure in a single crystal of Ce fine structure in a single crystal of Ce fine structure in a single crystal of Ce	1.1	5
58	Magnon Excitation Spectrum in Ferromagnetic Quasicubic Manganites. IEEE Transactions on Magnetism, 2010, 46, 1295-1298.	1.2	1
59	Spin Coulomb Drag in a One-Dimensional Spin-Polarized Conductor. IEEE Transactions on Magnetism, 2010, 46, 1346-1349.	1.2	0
60	Pressure-induced insulating state in		

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73	Resistivity and Magnetoresistance of La-doped CeOs ₄ Sb ₁₂ and PrOs ₄ Sb ₁₂ . Journal of the Physical Society of Japan, 2008, 77, 148-152.	0.7	1
74	Non-Fermi-liquid behavior in nearly ferromagnetic crystals. Physical Review B, 2007, 76, .	1.1	89
75	Resistance and current-voltage characteristics of individual superconducting NbSe ₂ nanowires. Physical Review B, 2007, 76, .	1.1	7
76	High-field suppression of in-gap states in the Kondo insulator SmB ₆ . Physical Review B, 2007, 75, .	1.1	62
77	Canting of Spins in Manganites. IEEE Transactions on Magnetics, 2007, 43, 3085-3087.	1.2	3
78	Gd ³⁺ and Eu ²⁺ local environment in Ca _{1-x} EuB ₆ (0.0001 ≤ x ≤ 0.30) and Ca _{1-x} Gd _x B ₆ (0.0001 ≤ x ≤ 0.01). Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1550-1555.	0.8	2
79	Coulomb-drag effect between two quantum wires: integrable models with long-range potentials. Philosophical Magazine, 2006, 86, 2469-2481.	0.7	2
80	Anomalies in the dynamical resistivity due to a quantum critical point. Physical Review B, 2006, 74, .	1.1	12
81	ESR study of the Eu ²⁺ g-value in the metallic phase of cubic hexaboride Ca _{1-x} Eu _x B ₆ (0.15 ≤ x ≤ 1.00). Physical Review B, 2006, 73, .	1.1	2
82	Quasiparticle linewidth close to a quantum critical point: Crossover from non-Fermi liquid to Fermi liquid behavior. Physical Review B, 2006, 73, .	1.1	19
83	Observation of oscillatory magnetoresistance periodic in 1/Band Bin Ca ₃ Ru ₂ O ₇ . Physical Review B, 2006, 73, .	1.1	7
84	Gradual transition from insulator to semimetal of Ca _{1-x} Eu _x B ₆ with increasing Eu concentration. Physical Review B, 2005, 71, .	1.1	17
85	Colossal Magnetoresistance by Avoiding a Ferromagnetic State in the Mott System Ca ₃ Ru ₂ O ₇ . Physical Review Letters, 2005, 95, 017203.	2.9	41
86	Double exchange and charge fluctuations in CrO ₂ . Journal of Applied Physics, 2004, 95, 7471-7473.	1.1	1
87	Thermal expansion in a system with nested Fermi surface. Journal of Applied Physics, 2004, 95, 7216-7218.	1.1	8
88	Orbitally driven behaviour: Mott transition, quantum oscillations and colossal magnetoresistance in bilayered Ca ₃ Ru ₂ O ₇ . New Journal of Physics, 2004, 6, 159-159.	1.2	26
89	Non-Fermi-liquid behavior in a system with a nested Fermi surface. Physical Review B, 2003, 68, .	1.1	27
90	Bariev model for correlated hopping with crystalline field splitting. Physical Review B, 2003, 67, .	1.1	0

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91	tâˆ¶ring with an Anderson impurity: A model for a quantum dot. Physical Review B, 2003, 67, .	1.1	4
92	Thermodynamics of a magnetic impurity in a small metallic grain. Journal of Applied Physics, 2003, 93, 8358-8360.	1.1	0
93	Exact solution of the Bariev model for correlated hopping with hard-core repulsion. Physical Review B, 2002, 66, .	1.1	6
94	Boundary defects in integrable quantum spin ladders. Physical Review B, 2002, 65, .	1.1	2
95	Specific features of a magnetic impurity in a correlated electron model with Ising anisotropy. Physical Review B, 2002, 66, .	1.1	1
96	Thermodynamics of the one-dimensional multicomponent Bariev model for correlated hopping. Nuclear Physics B, 2002, 634, 571-590.	0.9	9
97	Integrable one-dimensional N-component fermion model with correlated hopping and hard-core repulsion. Nuclear Physics B, 2002, 647, 539-564.	0.9	4
98	Quantum critical points of an anisotropic multichannel Kondo impurity. Journal of Applied Physics, 2001, 89, 7183-7185.	1.1	5
99	Kondo effect in a host with fractional statistics:â€fAbsence of Kondo logarithms. Physical Review B, 2001, 64, .	1.1	1
100	Mean-field approach for the B phase of (La,Ca)MnO3. Journal of Applied Physics, 2001, 89, 6624-6626.	1.1	0
101	Exact solution of Heisenberg-liquid models with long-range coupling. Physical Review B, 2001, 63, .	1.1	1
102	Boundary defect in a spin ladder. Journal of Applied Physics, 2001, 89, 7335-7337.	1.1	1
103	Phase separation in inhomogeneous mixed-valence systems: Application to manganites. Journal of Applied Physics, 2000, 87, 5022-5024.	1.1	2
104	Fluctuation induced precriticality in heavy fermions. Journal of Applied Physics, 2000, 87, 5140-5142.	1.1	10
105	Impurity model for Mn ions: Possibility of charge order and lattice distortions. Journal of Applied Physics, 1999, 85, 5423-5425.	1.1	0
106	One-dimensional heavy fermion lattice model. Journal of Applied Physics, 1999, 85, 5335-5337.	1.1	0
107	Simple model for non-Fermi-liquid behavior induced by antiferromagnetic spin fluctuations. Physical Review B, 1999, 59, 12379-12389.	1.1	26
108	Exact solution for a degenerate Anderson impurity in the limit embedded into a correlated host. European Physical Journal B, 1998, 5, 325-335.	0.6	9

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109	Exact solution for a one-dimensional multichannel model of correlated electrons with an Anderson-like impurity. <i>Journal of Physics A</i> , 1998, 31, 1981-1987.	1.6	6
110	Exact Results for Highly Correlated Electron Systems in One Dimension. <i>International Journal of Modern Physics B</i> , 1997, 11, 355-667.	1.0	129
111	Integrable supersymmetric t-J model with magnetic impurity. <i>Physical Review B</i> , 1997, 55, 5027-5036.	1.1	55
112	Low-temperature specific heat of the degenerate supersymmetric t-J model in one dimension. <i>Journal of Applied Physics</i> , 1996, 79, 6605.	1.1	1
113	Kondo hole states in Kondo insulators. <i>European Physical Journal D</i> , 1996, 46, 1895-1896.	0.4	1
114	Persistent current oscillations in a metallic ring embedding a quantum dot. <i>European Physical Journal D</i> , 1996, 46, 2409-2410.	0.4	3
115	Metal-insulator transition in dirty Kondo insulators. <i>Journal of Applied Physics</i> , 1996, 79, 6414.	1.1	17
116	Ground-state and elemental excitations of the one-dimensional multicomponent Fermi gas with delta-function interaction. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 1359-1378.	0.7	42
117	Effects of doping in Kondo insulators (invited). <i>Journal of Applied Physics</i> , 1994, 75, 7044-7049.	1.1	22
118	Ground-state properties and excitations of an integrable one-dimensional model with δ -function interaction involving several bands. <i>Journal of Applied Physics</i> , 1994, 75, 6731-6733.	1.1	1
119	Perturbative approximation scheme for isolated impurity bonds in the two-dimensional spin-1/2 Heisenberg antiferromagnet. <i>Journal of Applied Physics</i> , 1994, 75, 5532-5534.	1.1	3
120	Thermodynamics of the one-dimensional multicomponent Fermi gas with a delta-function interaction. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 5869-5886.	0.7	29
121	Multichannel Kondo problem and some applications. <i>Advances in Physics</i> , 1993, 42, 641-682.	35.9	157
122	The heavy fermion compound YbAgCu_4 . <i>Journal of Applied Physics</i> , 1993, 73, 5412-5414.	1.1	34
123	Ferromagnetic instability in a mean-field slave-boson approach for the Anderson lattice. <i>Journal of Applied Physics</i> , 1993, 73, 5400-5402.	1.1	17
124	Groundstate properties of the degenerate supersymmetric t-J model with crystalline field splitting in one dimension. <i>Journal of Applied Physics</i> , 1993, 73, 6645-6647.	1.1	1
125	Thermodynamics of the degenerate supersymmetric t-J model in one dimension. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 7565-7578.	0.7	19
126	Applications of the overcompensated channel Kondo problem. <i>Journal of Applied Physics</i> , 1991, 70, 5806-5808.	1.1	5

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127	Local density of states in the vicinity of a Kondo hole. Journal of Applied Physics, 1991, 70, 5803-5805.	1.1	38
128	A simple theory of the Kondo hole. Journal of Applied Physics, 1991, 69, 5478-5480.	1.1	60
129	Overcompensated impurities in antiferromagnetic Heisenberg chains. Journal of Applied Physics, 1991, 70, 6071-6073.	1.1	0
130	Integrable narrow-band model with possible relevance to heavy-fermion systems. Physical Review B, 1987, 36, 5177-5185.	1.1	277
131	Thermodynamics of the SU(N) Anderson impurity. European Physical Journal B, 1984, 54, 207-213.	0.6	32
132	Bethe-ansatz solution of the groundstate of a model for mixed-valent Ce and Yb impurities in metals. European Physical Journal B, 1982, 49, 109-114.	0.6	66