

Roman Movshovich

List of Publications by Year in descending order

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102
papers

5,941
citations

126907

33
h-index

69250

77
g-index

103
all docs

103
docs citations

103
times ranked

3289
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavy-fermion superconductivity in CeCoIn ₅ at 2.3 K. Journal of Physics Condensed Matter, 2001, 13, L337-L342.	1.8	737
2	Possible Fulde-Ferrell-Larkin-Ovchinnikov Superconducting State in CeCoIn ₅ . Physical Review Letters, 2003, 91, 187004.	7.8	543
3	A new heavy-fermion superconductor CeIrIn ₅ : A relative of the cuprates?. Europhysics Letters, 2001, 53, 354-359.	2.0	476
4	Hidden magnetism and quantum criticality in the heavy fermion superconductor CeRhIn ₅ . Nature, 2006, 440, 65-68.	27.8	412
5	Unconventional Superconductivity in CeIrIn ₅ and CeCoIn ₅ : Specific Heat and Thermal Conductivity Studies. Physical Review Letters, 2001, 86, 5152-5155.	7.8	399
6	Coupled Superconducting and Magnetic Order in CeCoIn ₅ . Science, 2008, 321, 1652-1654.	12.6	299
7	Superconductivity in heavy-fermion CeRh ₂ Si ₂ . Physical Review B, 1996, 53, 8241-8244.	3.2	279
8	Avoided Antiferromagnetic Order and Quantum Critical Point in CeCoIn ₅ . Physical Review Letters, 2003, 91, 257001.	7.8	275
9	First-Order Superconducting Phase Transition in CeCoIn ₅ . Physical Review Letters, 2002, 89, 137002.	7.8	231
10	Coexistence of magnetism and superconductivity in CeRh _{1-x} Ir _x In ₅ . Physical Review B, 2001, 64, .	3.2	159
11	The first order phase transition and superconductivity in BaNi ₂ As ₂ single crystals. Journal of Physics Condensed Matter, 2008, 20, 342203.	1.8	134
12	Bose glass and Mott glass of quasiparticles in a doped quantum magnet. Nature, 2012, 489, 379-384.	27.8	111
13	Superconducting Vortices in CeCoIn ₅ : Toward the Pauli-Limiting Field. Science, 2008, 319, 177-180.	12.6	104
14	Anisotropy of thermal conductivity and possible signature of the Fulde-Ferrell-Larkin-Ovchinnikov state in CeCoIn ₅ . Physical Review B, 2004, 70, .	3.2	95
15	Isotropic quantum scattering and unconventional superconductivity. Nature, 2008, 456, 366-368.	27.8	94
16	Evidence for a Magnetically Driven Superconducting Q Phase of $CeCoIn_5$. Physical Review Letters, 2010, 104, 127001.	7.8	90
17	Magnetic microstructure and magnetic properties of uniaxial itinerant ferromagnet Fe ₃ GeTe ₂ . Journal of Applied Physics, 2016, 120, .	2.5	87
18	Field-tuned quantum critical point in CeCoIn ₅ near the superconducting upper critical field. Physical Review B, 2005, 71, .	3.2	72

#	ARTICLE	IF	CITATIONS
19	Low-Temperature Anomaly in Thermal Conductivity of $\text{Bi}_2\text{Sr}_2\text{Ca}(\text{Cu}_{1-x}\text{Ni}_x)\text{O}_8$: Second Superconducting Phase?. <i>Physical Review Letters</i> , 1998, 80, 1968-1971.	7.8	69
20	Superconductivity in CeCoIn_5 : Veil over an Ordered State or Novel Quantum Critical Point?. <i>Physical Review Letters</i> , 2005, 94, 047001.	7.8	65
21	Pressure study of quantum criticality in CeCoIn_5 . <i>Physical Review B</i> , 2006, 73, .	3.2	62
22	Ni_2X_2 (X=pnictide, chalcogenide, or B) based superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2009, 469, 396-403.	1.2	56
23	Low-Temperature Magnetothermal Transport Investigation of a Ni-Based Superconductor BaNiAs : Evidence for Fully Gapped Superconductivity. <i>Physical Review Letters</i> , 2009, 102, 147004.	7.8	54
24	Controllable chirality-induced geometrical Hall effect in a frustrated highly correlated metal. <i>Nature Communications</i> , 2012, 3, 1067.	12.8	51
25	Unusual Kondo behavior in the indium-rich heavy-fermion antiferromagnet $\text{Ce}_3\text{Pt}_4\text{In}_{13}$. <i>Physical Review B</i> , 2001, 65, .	3.2	49
26	Pressure-induced superconducting state and effective mass enhancement near the antiferromagnetic quantum critical point of CePt_2 . <i>Physical Review B</i> , 2010, 81, .	3.2	48
27	Switching of magnetic domains reveals spatially inhomogeneous superconductivity. <i>Nature Physics</i> , 2014, 10, 126-129.	16.7	46
28	Local Ferromagnetic Resonance Imaging with Magnetic Resonance Force Microscopy. <i>Physical Review Letters</i> , 2008, 100, 197601.	7.8	44
29	Thermodynamic and transport investigation of CeCoIn_5 . <i>Physical Review B</i> , 2006, 73, .	3.2	42
30	$\text{NaV}_4\text{O}_{13}$: A Quasi-1D Metallic Antiferromagnet with Half-Metallic Chains. <i>Physical Review Letters</i> , 2007, 99, 196601.	7.8	41
31	Electronic inhomogeneity in a Kondo lattice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6857-6861.	7.1	39
32	Intertwined Orders in Heavy-Fermion Superconductor CeCoIn_5 . <i>Physical Review X</i> , 2016, 6, .	8.9	35
33	Anisotropic Effect of Cd and Hg Doping on the Pauli Limited Superconductor CeCoIn_5 . <i>Physical Review Letters</i> , 2008, 101, 037001.	7.8	34
34	Non-Fermi-liquid behavior in CeIrIn_5 near a metamagnetic transition. <i>Physical Review B</i> , 2004, 70, .	3.2	31
35	Design of a variable temperature scanning force microscope. <i>Review of Scientific Instruments</i> , 2009, 80, 083704.	1.3	31
36	c-axis magnetotransport in CeCoIn_5 . <i>Physical Review B</i> , 2005, 72, .	3.2	28

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37	Observations of Pauli paramagnetic effects on the flux line lattice in CeCoIn ₅ . New Journal of Physics, 2010, 12, 023026.	2.9	28
38	Antiferromagnetic quantum critical point in. Physica B: Condensed Matter, 2006, 378-380, 142-143.	2.7	26
39	Quantum critical scaling at a Bose-glass/superfluid transition: Theory and experiment for a model quantum magnet. Physical Review B, 2012, 86, .	3.2	26
40	Rapid suppression of superconductivity in. Physica B: Condensed Matter, 2005, 359-361, 35-37.	2.7	23
41	Anomalous effect of doping on the superconducting state of CeCoIn ₅ in high magnetic fields. Physical Review B, 2010, 82, .	3.2	23
42	Magnetic ordering in the frustrated chain candidate J_1 J_2 J_3 J_4 J_5 J_6 J_7 J_8 J_9 J_{10} J_{11} J_{12} J_{13} J_{14} J_{15} J_{16} J_{17} J_{18} J_{19} J_{20} J_{21} J_{22} J_{23} J_{24} J_{25} J_{26} J_{27} J_{28} J_{29} J_{30} J_{31} J_{32} J_{33} J_{34} J_{35} J_{36} J_{37} J_{38} J_{39} J_{40} J_{41} J_{42} J_{43} J_{44} J_{45} J_{46} J_{47} J_{48} J_{49} J_{50} J_{51} J_{52} J_{53} J_{54} J_{55} J_{56} J_{57} J_{58} J_{59} J_{60} J_{61} J_{62} J_{63} J_{64} J_{65} J_{66} J_{67} J_{68} J_{69} J_{70} J_{71} J_{72} J_{73} J_{74} J_{75} J_{76} J_{77} J_{78} J_{79} J_{80} J_{81} J_{82} J_{83} J_{84} J_{85} J_{86} J_{87} J_{88} J_{89} J_{90} J_{91} J_{92} J_{93} J_{94} J_{95} J_{96} J_{97} J_{98} J_{99} J_{100} J_{101} J_{102} J_{103} J_{104} J_{105} J_{106} J_{107} J_{108} J_{109} J_{110} J_{111} J_{112} J_{113} J_{114} J_{115} J_{116} J_{117} J_{118} J_{119} J_{120} J_{121} J_{122} J_{123} J_{124} J_{125} J_{126} J_{127} J_{128} J_{129} J_{130} J_{131} J_{132} J_{133} J_{134} 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55	Spin liquid ground state in the frustrated J_1 - J_2 chain system BaTb_2O_7 . Physical Review B, 2015, 92, .	3.2	12
56	Interplay of magnetism, structure and superconductivity in heavy-fermion systems CeMn_5 and PuMg_5 . Journal of Alloys and Compounds, 2006, 408-412, 16-20.	5.5	10
57	Interplay of the Spin Density Wave and a Possible Fulde-Ferrell-Larkin-Ovchinnikov State in CeCoIn_5 in Rotating Magnetic Field. Physical Review Letters, 2020, 124, 217001.	7.8	10
58	Low Temperature Magnetic Resonance Force Microscope: Design and Performance. AIP Conference Proceedings, 2006, , .	0.4	9
59	Low-temperature thermal conductivity of BaFe_2As_2 : A parent compound of iron arsenide superconductors. Physical Review B, 2009, 79, .	3.2	9
60	Magnetic domain tuning and the emergence of bubble domains in the bilayer manganite $\text{La}_{1-x}\text{Ca}_x\text{MnO}_2$. Physical Review B, 2015, 92, .	3.2	9
61	Cryogenic thermal conductivity of antiferromagnetic short-range order in $\text{Yb}_2\text{Ru}_2\text{O}_7$. Physical Review B, 2016, 93, .	3.2	8
62	Measurement of the magnetic penetration depth of a superconducting MgB_2 thin film with a large intraband diffusivity. Physical Review B, 2012, 86, .	3.2	8
63	Partially disordered antiferromagnetism and multiferroic behavior in a frustrated Ising system $\text{CoCl}_2\text{SCNH}_2$. Physical Review B, 2016, 93, .	3.2	8
64	Magnetism and unconventional superconductivity in isostructural cerium and plutonium compounds. Journal of Magnetism and Magnetic Materials, 2007, 310, 532-535.	2.3	7
65	Fully gapped superconductivity in Ni-pnictide superconductors BaNi_2As_2 and SrNi_2P_2 . Journal of Physics: Conference Series, 2011, 273, 012097.	0.4	7
66	Complex mixed state of the Pauli-limited superconductor CeCoIn_5 . Physical Review B, 2012, 85, .	3.2	7
67	Magnetic resonance force microscopy studies in a thin permalloy film. Journal of Magnetism and Magnetic Materials, 2007, 310, e941-e943.	2.3	6
68	Spatial characterization of the magnetic field profile of a probe tip used in magnetic resonance force microscopy. Applied Physics Letters, 2008, 92, 214104.	3.3	6
69	Thermal and magnetic properties of the low-temperature antiferromagnet Ce_4Mg_6 . Physical Review B, 2010, 82, .	3.2	6
70	Local characterization of a heavy-fermion superconductor via sub-Kelvin magnetic force microscopy. Applied Physics Letters, 2020, 117, .	3.3	6
71	Effect of localized magnetic field on the uniform ferromagnetic resonance mode in a thin film. Applied Physics Letters, 2009, 94, .	3.3	5
72	Strong magnetic field dependence of critical current densities and vortex activation energies in an anisotropic clean MgB_2 thin film. Solid State Communications, 2015, 204, 56-60.	1.9	5

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73	Competing ground states in heavy-fermion materials. Journal of Alloys and Compounds, 2000, 303-304, 239-244.	5.5	4
74	Pulsed laser deposition of CeCoIn5 thin films. Physica C: Superconductivity and Its Applications, 2010, 470, S568-S569.	1.2	4
75	Weak coupling magnetism in $Ce_{4-x}Pt_{12-x}Sn_{25-x}$: a small exchange limit in the Doniach phase diagram. Journal of Physics Condensed Matter, 2010, 22, 065601.	1.8	4
76	Switching dynamics of the spin density wave in superconducting CeCoIn5. Physical Review B, 2017, 95, .	3.2	4
77	Resonances in the Field-Angle-Resolved Thermal Conductivity of $CeCoIn_5$. Physical Review Letters, 2017, 118, 197001.	7.8	4
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