

Conrado Rillo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

943
citations

16
h-index

25
g-index

100
ext. papers

988
ext. citations

3.2
avg, IF

2.82
L-index

#	Paper	IF	Citations
93	Magnetic Interaction between d1 [MOR4] Units of Molybdenum and Tungsten. <i>Solid State Phenomena</i> , 2016 , 257, 223-226	0.4	
92	Hydrogen-Free Liquid-Helium Recovery Plants: The Solution for Low-Temperature Flow Impedance Blocking. <i>Physical Review Applied</i> , 2016 , 6,	4.3	5
91	Purification of Recovered Helium with Low level of Impurities: Evaluation of Two Different Methods. <i>Physics Procedia</i> , 2015 , 67, 158-162		4
90	Helium Contamination Through Polymeric Walls. <i>Physics Procedia</i> , 2015 , 67, 141-146		2
89	Enhancement of the Liquefaction Rate in Small-Scale Helium Liquefiers Working Near and Above the Critical Point. <i>Physical Review Applied</i> , 2015 , 3,	4.3	8
88	Homoleptic organocobalt(III) compounds with intermediate spin. <i>Inorganic Chemistry</i> , 2014 , 53, 12384-95.1	5.1	14
87	A square-pyramidal organochromium(V) compound. <i>Dalton Transactions</i> , 2012 , 41, 1297-303	4.3	3
86	Note: a sample holder design for sensitive magnetic measurements at high temperatures in a magnetic properties measurement system. <i>Review of Scientific Instruments</i> , 2012 , 83, 066106	1.7	1
85	Synthesis, characterisation and magnetic properties of octahedral chromium(III) compounds with six C-donor ligands. <i>Dalton Transactions</i> , 2011 , 40, 853-61	4.3	8
84	Sigma-organoniobium compounds with [NbR4]- and NbR4 stoichiometries. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6143-6	16.4	6
83	Low Temperature Heat Capacity Study of Nd ₃ Ni _{13-x} Co _x B ₂ Series. <i>Solid State Phenomena</i> , 2009 , 152-153, 466-469	0.4	
82	Homoleptic organoderivatives of high-valent nickel(III). <i>Chemistry - A European Journal</i> , 2009 , 15, 11020-30	3.0	18
81	Synthesis, electrochemical behavior and magnetic properties of polyradicals of the TTM series. <i>Tetrahedron</i> , 2007 , 63, 708-716	2.4	
80	Synthesis and characterization of new paramagnetic tetraaryl derivatives of chromium and molybdenum. <i>Journal of Organometallic Chemistry</i> , 2007 , 692, 3236-3247	2.3	15
79	Heat capacity measurements of itinerant electron magnetism in Y ₃ Ni _{13-x} Co _x B ₂ system. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, 166-169	2.8	5
78	Nonlinear response of single-molecule magnets: Field-tuned quantum-to-classical crossovers. <i>Physical Review B</i> , 2007 , 75,	3.3	7
77	Disposable sample holder for high temperature measurements in MPMS superconducting quantum interference device magnetometers. <i>Review of Scientific Instruments</i> , 2007 , 78, 046101	1.7	11

76	Magnetic phase diagrams of $R_3(\text{Co:Ni})_3\text{B}_2$, $R=\text{Y}$ and Nd intermetallic compounds. <i>Journal of Alloys and Compounds</i> , 2007 , 442, 11-16	5.7	4
75	Magma flow and thermal contraction fabric in tabular intrusions inferred from AMS analysis. A case study in a late-Variscan folded sill of the Albarracín Massif (southeastern Iberian Chain, Spain). <i>Journal of Structural Geology</i> , 2006 , 28, 641-653	3	14
74	A square-planar organoiron(III) compound with a spin-admixed state. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 6707-11	16.4	46
73	A Square-Planar Organoiron(III) Compound with a Spin-Admixed State. <i>Angewandte Chemie</i> , 2006 , 118, 6859-6863	3.6	12
72	The main Variscan deformation event in the Pyrenees: new data from the structural study of the Bielsa granite. <i>Journal of Structural Geology</i> , 2004 , 26, 659-677	3	33
71	1:30000 cryogenic current comparator with optimum SQUID readout. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2003 , 52, 621-625	5.2	14
70	Simplified calculus for the design of a cryogenic current comparator. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2003 , 52, 612-616	5.2	4
69	Study of MgB ₂ /sub 2/ powders and Cu/MgB ₂ /sub 2/ powder-in-tube composite wires with Zn addition. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 3210-3213	1.8	10
68	Design and synthesis of a new binucleating ligand via cobalt-promoted C-N bond fusion reaction. Ligand isolation and its coordination to nickel, palladium, and platinum. <i>Inorganic Chemistry</i> , 2003 , 42, 5367-75	5.1	36
67	Magnetic relaxation phenomena in $R_2\text{Fe}_{17}$ ($R=\text{Y, Dy, Er, Ho}$) and C and H derivatives. <i>Journal of Alloys and Compounds</i> , 2003 , 356-357, 208-210	5.7	4
66	On the sensitivity of cryogenic current comparators: theory and experiments. <i>Metrologia</i> , 2003 , 40, 51-56.1		
65	A new series of homoleptic, paramagnetic organochromium derivatives: synthesis, characterization, and study of the magnetic properties. <i>Chemistry - A European Journal</i> , 2002 , 8, 4056-65	4.8	39
64	Resistance bridge based on the cryogenic current comparator in a transport dewar. <i>IEEE Transactions on Applied Superconductivity</i> , 2001 , 11, 867-870	1.8	2
63	Accurate measurement of small currents using a CCC with DC SQUID readout. <i>Sensors and Actuators A: Physical</i> , 2000 , 85, 54-59	3.9	3
62	Magnetic behavior of $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$ in the electric-field-driven insulator-metal transition. <i>Physical Review B</i> , 2000 , 61, 11236-11239	3.3	52
61	Low input coil inductance SQUIDs for cryogenic current comparator applications. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 3487-3490	1.8	5
60	Texture analysis and microstructural features in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ zone-partial-melted samples with Y_2BaCuO_5 additions. <i>Journal of Materials Research</i> , 1999 , 14, 1711-1719	2.5	2
59	Design and realization of an optimal current sensitive CCC. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1999 , 48, 370-374	5.2	4

58	Ultimate current resolution of a cryogenic current comparator. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1999 , 48, 1306-1313	5.2	10
57	Intermediate frustration in $[\text{Fe}_3\text{O}(\text{CH}_3\text{COO})_6(\text{H}_2\text{O})_3] \text{NO}_3 \cdot 4(\text{H}_2\text{O})$ trinuclear cluster. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 561-563	2.8	9
56	Spin reorientation phenomena in the $\text{NdYFe}_{14}\text{Co}_x\text{B}$ system. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 639-640	2.8	
55	Calculation of effective inductances of superconducting devices. Application to the cryogenic current comparator. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 58-62	1.8	13
54	Experimental analysis of thermalisation and emissivity of radiation screens for cryostat design. <i>Cryogenics</i> , 1998 , 38, 953-958	1.8	2
53	Design, manufacturing and cold test of a superconducting coil and its cryostat for SMES applications. <i>IEEE Transactions on Applied Superconductivity</i> , 1997 , 7, 853-856	1.8	5
52	Josephson Voltage Standard International Comparison. <i>Metrologia</i> , 1995 , 31, 395-397	2.1	0
51	Intergranular properties of YBCO and BSCCO ceramic superconductors at low fields. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 230, 361-370	1.3	14
50	Interaction between parallel magnetic fields and transport currents in YBCO superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 2989-2990	1.3	2
49	Magnetic hysteresis effects in the ac susceptibility of YBaCuO ceramics. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 3189-3190	1.3	
48	Superconducting composite wires and tapes. <i>Applied Superconductivity</i> , 1994 , 2, 377-385		1
47	Solution-based synthesis routes to $(\text{Bi}_{1-x}\text{Pb}_x)_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$. <i>Journal of Materials Research</i> , 1993 , 8, 1268-1276	2.5	29
46	Fabrication of $\text{Ag}/(\text{Bi,Pb})_x\text{Sr}_y\text{Ca}_z\text{Cu}_w\text{O}$ superconducting tapes. <i>Cryogenics</i> , 1993 , 33, 117-123	1.8	14
45	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1993 , 42, 593-595	5.2	1
44	D.c. field tuning of inter- and intragranular effects in YBaCuO ceramics. <i>Cryogenics</i> , 1993 , 33, 314-320	1.8	4
43	Inductive and transport simultaneous measurements of the superconducting properties of YBaCuO ceramics: a comparative study. <i>Superconductor Science and Technology</i> , 1992 , 5, S415-S418	3.1	3
42	On the structural and magnetic properties of the new ternary nitride series $\text{R}_2\text{Fe}_{17}\text{N}_x$. <i>Journal of Alloys and Compounds</i> , 1992 , 178, 15-22	5.7	16
41	Effects of interstitial elements in iron-rare earth alloys. <i>Physica B: Condensed Matter</i> , 1992 , 180-181, 632-634		3

40	Oxygen stoichiometry, critical temperature and pinning mechanisms in the 2212 BSCCO superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 1992 , 203, 223-230	1.3	17
39	Critical state models for inter and intragranular flux pinning in HTS ceramics: universal scaling laws. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 615-616	2.8	8
38	Magnetic phase transitions in $(\text{Fe}_{1-x}\text{Ru}_x)_2\text{P}$ ($0.25 \leq x \leq 0.6$). <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 1993-1994	2.8	2
37	Magnetic phase transitions in MnRhAs single crystal: an ac susceptibility study. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 1995-1996	2.8	5
36	Structural, ac susceptibility and high magnetic field characterization of the new hard magnetic nitrides $\text{R}_2\text{Fe}_{17}\text{N}_x$. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 2003-2005	2.8	4
35	Magnetic and electric transport properties of $\text{Ag}/(\text{Bi,Pb})_x\text{Sr}_y\text{Ca}_z\text{Cu}_w\text{O}$ superconducting fibres. <i>Cryogenics</i> , 1992 , 32, 969-974	1.8	5
34	Laser floating zone growth of textured $\text{Ag}/(\text{Bi,Pb})_x\text{Sr}_y\text{Ca}_z\text{Cu}_w\text{O}$ superconductors. <i>Advanced Materials</i> , 1992 , 4, 505-508	2.4	2
33	A 19-channel d.c. SQUID magnetometer system for brain research. <i>Sensors and Actuators A: Physical</i> , 1991 , 27, 781-785	3.9	5
32	Critical current model analysis of inter- and intra-grain effects in a high density sintered $\text{Tl}_2\text{Ba}_x\text{Ca}_y\text{Cu}_z\text{O}$ ceramic. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 183, 73-82	1.3	6
31	$(\text{Bi,Pb})_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$ superconductor composites: Ceramics vs. fibers. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 2401-2402	1.3	28
30	Influence of oxygen stoichiometry on T_c and pinning force of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 2475-2476	1.3	7
29	Polymer solution processing of $(\text{Bi, Pb})_x\text{Sr}_y\text{Ca}_z\text{Cu}_w\text{O}$. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 509-510	1.3	34
28	Systematic magnetic ac susceptibility study of $(\text{RE})_2\text{Fe}_{14}\text{BH}_x$ and $(\text{RE})_2\text{Fe}_{14}\text{CH}_x$. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 101, 372-374	2.8	10
27	On the sensitivity of high- T_c superconducting ceramics as magnetic field sensors. <i>Sensors and Actuators A: Physical</i> , 1991 , 27, 775-780	3.9	2
26	LFZ growth of $(\text{Bi, Pb})_x\text{Sr}_y\text{Ca}_z\text{Cu}_w\text{O}$ superconducting fibers. <i>Journal of Materials Research</i> , 1991 , 6, 699-703	2.5	12
25	Hydrogenation, crystal structure and magnetic ordering of $\text{R}_2\text{Fe}_{14}\text{C}$ ($\text{R} = \text{Sm, Er, Tm}$). <i>Journal of the Less Common Metals</i> , 1991 , 168, 321-328		10
24	Structural and magnetic study of $\text{Ho}_2\text{Fe}_{14}\text{BH}_x$ ($x = 0\text{B}.1$). <i>Journal of the Less Common Metals</i> , 1991 , 171, 71-82		23
23	Thermal, electric and magnetic anomalies in the spin reorientation phase transitions of $\text{RE}_2\text{Fe}_{14}\text{B}$. <i>Journal of Magnetism and Magnetic Materials</i> , 1990 , 83, 289-290	2.8	13

22	Magnetic phase diagram of the $(\text{Fe}_{1-x}\text{Mn}_x)_2\text{P}$ system. <i>Journal of Magnetism and Magnetic Materials</i> , 1990 , 83, 313-314	2.8	14
21	Low noise SQUID simulator with large dynamic range of up to eight flux quanta. <i>Cryogenics</i> , 1990 , 30, 324-329	1.8	6
20	Critical currents and relaxation effects in $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ single crystals. <i>Cryogenics</i> , 1990 , 30, 656-659	1.8	4
19	$\text{YBa}_2\text{Cu}_3\text{O}_7$ low field diamagnetic properties. <i>Physica C: Superconductivity and Its Applications</i> , 1990 , 167, 549-559	1.3	22
18	Thermal and magnetic properties of Bi_2CuO_4 (abstract). <i>Journal of Applied Physics</i> , 1990 , 67, 5761-5761	2.5	1
17	Crystal structure and magnetism of $\text{Co}(\text{HPO}_3)_2 \cdot \text{H}_2\text{O}$: A novel layered compound of $\text{Co}(\text{II})$. <i>Journal of Applied Physics</i> , 1990 , 67, 5998-6000	2.5	6
16	Thermogravimetry and neutron thermodiffractometry studies of the $\text{H-YBa}_2\text{Cu}_3\text{O}_7$ system. <i>Journal of the Less Common Metals</i> , 1990 , 157, 233-244		22
15	Influence of Sb and Pb substitution on the physical properties of the BiSrCaCuO compounds. <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 162-164, 863-864	1.3	3
14	Diamagnetism and critical currents of $\text{Bi}_2\text{Ca}_x\text{Sr}_y\text{Cu}_2\text{O}$ samples. <i>Cryogenics</i> , 1989 , 29, 379-383	1.8	7
13	Y-Sm twinned and untwinned high temperature superconductors: a comparative study. <i>Cryogenics</i> , 1989 , 29, 350-354	1.8	4
12	Diamagnetic properties of $\text{YBa}_2\text{Cu}_3\text{O}_7$ presintered powders: Critical current densities and a.c. losses. <i>Cryogenics</i> , 1989 , 29, 1128-1134	1.8	5
11	On inhomogeneous superconductivity in Fe substituted $\text{YBa}_2\text{Cu}_3\text{O}_7$. <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 162-164, 41-42	1.3	3
10	Non-linearity of the $\text{YBa}_2\text{Cu}_3\text{O}_7$ low field diamagnetic properties: Multi-harmonic analysis.. <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 162-164, 325-326	1.3	6
9	Anisotropy in the diamagnetic properties of oriented $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ polycrystalline fibers. <i>Solid State Communications</i> , 1989 , 72, 1003-1008	1.6	8
8	Magnetic energy absorption in sintered $\text{YBa}_2\text{Cu}_3\text{O}_7$ samples. <i>Physica C: Superconductivity and Its Applications</i> , 1988 , 153-155, 1533-1534	1.3	7
7	Diamagnetism and electrical connectivity in an inhomogeneous $\text{Ba}_2\text{YCu}_3\text{O}_7$ superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 1988 , 153-155, 389-390	1.3	5
6	Microstructure and diamagnetism in superconducting $\text{TmBa}_2\text{Cu}_3\text{O}_7$. <i>Journal of Magnetism and Magnetic Materials</i> , 1988 , 74, 263-270	2.8	4
5	. <i>IEEE Transactions on Magnetics</i> , 1988 , 24, 1641-1643	2	36

4	Dynamical susceptibility of Ho ₂ Fe ₁₄ B single crystal: Spin rotation and domain wall motions. <i>Journal of Applied Physics</i> , 1988 , 64, 5534-5536	2.5	19
3	Optimization of the dynamic behavior of a SQUID system using an electronic simulation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1987 , IM-36, 770-775	5.2	11
2	Superconducting weak links in YBa ₂ Cu ₃ O _{7-δ} in AC magnetic susceptibility study. <i>Journal of Magnetism and Magnetic Materials</i> , 1987 , 69, L225-L229	2.8	38
1	CCC inductances calculation: validity of the image method		1