

# Conrado Rillo

## List of Publications by Year in descending order

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913  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.2	53
2	A Square-Planar Organoiron(III) Compound with a Spin-Admixed State. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6707-6711.	13.8	49
3	A New Series of Homoleptic, Paramagnetic Organochromium Derivatives: Synthesis, Characterization, and Study of Their Magnetic Properties. <i>Chemistry - A European Journal</i> , 2002, 8, 4056-4065.	3.3	45
4	Superconducting weak links in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ : An AC magnetic susceptibility study. <i>Journal of Magnetism and Magnetic Materials</i> , 1987, 69, L225-L229.	2.3	41
5	Structural and magnetic properties of $\text{R}_{2/3}\text{Fe}_{14}\text{BH}_x$ . <i>IEEE Transactions on Magnetics</i> , 1988, 24, 1641-1643.	2.1	38
6	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, 5367-5375.	4.0	37
7	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.	2.3	36
8	Polymer solution processing of $(\text{Bi}, \text{Pb})_{1-x}\text{Sr}_x\text{Ca}_{1-x}\text{Cu}_{1-x}\text{O}$ . <i>Physica C: Superconductivity and Its Applications</i> , 1991, 185-189, 509-510.	1.2	34
9	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.	2.6	31
10	$(\text{Bi}, \text{Pb})_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$ superconductor composites: Ceramics vs. fibers. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 185-189, 2401-2402.	1.2	29
11	Structural and magnetic study of $\text{Ho}_2\text{Fe}_{14}\text{BH}_x$ ( $x = 0 \text{ to } 3.1$ ). <i>Journal of the Less Common Metals</i> , 1991, 171, 71-82.	0.8	26
12	Thermogravimetry and neutron thermodiffraction studies of the H-YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> system. <i>Journal of the Less Common Metals</i> , 1990, 157, 233-244.	0.8	25
13	$\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ low field diamagnetic properties. <i>Physica C: Superconductivity and Its Applications</i> , 1990, 167, 549-559.	1.2	22
14	Homoleptic Organoderivatives of High-Valent Nickel(III). <i>Chemistry - A European Journal</i> , 2009, 15, 11020-11030.	3.3	22
15	Dynamical susceptibility of $\text{Ho}_2\text{Fe}_{14}\text{B}$ single crystal: Spin rotation and domain wall motions. <i>Journal of Applied Physics</i> , 1988, 64, 5534-5536.	2.5	19
16	Homoleptic Organocobalt(III) Compounds with Intermediate Spin. <i>Inorganic Chemistry</i> , 2014, 53, 12384-12395.	4.0	19
17	1:30 000 cryogenic current comparator with optimum squid readout. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2003, 52, 621-625.	4.7	18
18	Synthesis and characterization of new paramagnetic tetraaryl derivatives of chromium and molybdenum. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 3236-3247.	1.8	18

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19	On the structural and magnetic properties of the new ternary nitride series R <sub>2</sub> Fe <sub>17</sub> N <sub>x</sub> . Journal of Alloys and Compounds, 1992, 178, 15-22.	5.5	17
20	Oxygen stoichiometry, critical temperature and pinning mechanisms in the 2212 BSCCO superconductor. Physica C: Superconductivity and Its Applications, 1992, 203, 223-230.	1.2	17
21	Ultimate current resolution of a cryogenic current comparator. IEEE Transactions on Instrumentation and Measurement, 1999, 48, 1306-1313.	4.7	17
22	Calculation of effective inductances of superconducting devices. Application to the cryogenic current comparator. IEEE Transactions on Applied Superconductivity, 1999, 9, 58-62.	1.7	17
23	Magma flow and thermal contraction fabric in tabular intrusions inferred from AMS analysis. A case study in a late-Variscan folded sill of the Albarrac�n Massif (southeastern Iberian Chain, Spain). Journal of Structural Geology, 2006, 28, 641-653.	2.3	16
24	Magnetic phase diagram of the (Fe <sub>1-x</sub> Mn <sub>x</sub> ) <sub>2</sub> P system. Journal of Magnetism and Magnetic Materials, 1990, 83, 313-314.	2.3	15
25	Fabrication of Ag/(Bi,Pb) <sub>1-x</sub> Sr <sub>1-x</sub> Ca <sub>1-x</sub> Cu <sub>1-x</sub> O superconducting tapes. Cryogenics, 1993, 33, 117-123.	1.7	15
26	Thermal, electric and magnetic anomalies in the spin reorientation phase transitions of RE <sub>2</sub> Fe <sub>14</sub> B. Journal of Magnetism and Magnetic Materials, 1990, 83, 289-290.	2.3	14
27	Intergranular properties of YBCO and BSCCO ceramic superconductors at low fields. Physica C: Superconductivity and Its Applications, 1994, 230, 361-370.	1.2	14
28	Hydrogenation, crystal structure and magnetic ordering of R <sub>2</sub> Fe <sub>14</sub> C (R = Sm, Er, Tm). Journal of the Less Common Metals, 1991, 168, 321-328.	0.8	12
29	LFZ growth of (Bi, Pb) <sub>1-x</sub> Sr <sub>1-x</sub> Ca <sub>1-x</sub> Cu <sub>1-x</sub> O superconducting fibers. Journal of Materials Research, 1991, 6, 699-703.	2.6	12
30	Optimization of the dynamic behavior of a SQUID system using an electronic simulation. IEEE Transactions on Instrumentation and Measurement, 1987, IM-36, 770-775.	4.7	11
31	Systematic magnetic ac susceptibility study of (RE) <sub>2</sub> Fe <sub>14</sub> BH <sub>x</sub> and (RE) <sub>2</sub> Fe <sub>14</sub> CH <sub>x</sub> . Journal of Magnetism and Magnetic Materials, 1991, 101, 372-374.	2.3	11
32	Disposable sample holder for high temperature measurements in MPMS superconducting quantum interference device magnetometers. Review of Scientific Instruments, 2007, 78, 046101.	1.3	11
33	Study of MgB <sub>2</sub> /sub 2/ powders and Cu//MgB <sub>2</sub> /sub 2/ powder-in-tube composite wires with Zn addition. IEEE Transactions on Applied Superconductivity, 2003, 13, 3210-3213.	1.7	10
34	Critical state models for inter and intragranular flux pinning in HTS ceramics: universal scaling laws. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 615-616.	2.3	9
35	Intermediate frustration in [Fe <sub>3</sub> O(CH <sub>3</sub> COO) <sub>6</sub> (H <sub>2</sub> O) <sub>3</sub> ] NO <sub>3</sub> · 4(H <sub>2</sub> O) trinuclear cluster. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 561-563.	2.3	9
36	Enhancement of the Liquefaction Rate in Small-Scale Helium Liquefiers Working Near and Above the Critical Point. Physical Review Applied, 2015, 3, .	3.8	9

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37	Anisotropy in the diamagnetic properties of oriented Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\hat{\Gamma}$ polycrystalline fibers. Solid State Communications, 1989, 72, 1003-1008.	1.9	8
38	Design and realization of an optimal current sensitive CCC. IEEE Transactions on Instrumentation and Measurement, 1999, 48, 370-374.	4.7	8
39	Nonlinear response of single-molecule magnets: Field-tuned quantum-to-classical crossovers. Physical Review B, 2007, 75, .	3.2	8
40	Organoniobium Compounds with [Nb <sub>4</sub> ] <sup>+</sup> and Nb <sub>4</sub> Stoichiometries. Angewandte Chemie - International Edition, 2010, 49, 6143-6146.	13.8	8
41	Synthesis, characterisation and magnetic properties of octahedral chromium(III) compounds with six C-donor ligands. Dalton Transactions, 2011, 40, 853-861.	3.3	8
42	Magnetic energy absorption in sintered YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> + $\hat{\Gamma}$ samples. Physica C: Superconductivity and Its Applications, 1988, 153-155, 1533-1534.	1.2	7
43	Diamagnetism and critical currents of Bi—,Ca—,Sr—,Cu—,O samples. Cryogenics, 1989, 29, 379-383.	1.7	7
44	Low noise SQUID simulator with large dynamic range of up to eight flux quanta. Cryogenics, 1990, 30, 324-329.	1.7	7
45	Crystal structure and magnetism of Co(HPO <sub>3</sub> ) <sub>n</sub> ·xH <sub>2</sub> O: A novel layered compound of Co(II). Journal of Applied Physics, 1990, 67, 5998-6000.	2.5	7
46	A 19-channel d.c. SQUID magnetometer system for brain research. Sensors and Actuators A: Physical, 1991, 27, 781-785.	4.1	7
47	Influence of oxygen stoichiometry on T <sub>c</sub> and pinning force of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\hat{\Gamma}$ . Physica C: Superconductivity and Its Applications, 1991, 185-189, 2475-2476.	1.2	7
48	Design, manufacturing and cold test of a superconducting coil and its cryostat for SMES applications. IEEE Transactions on Applied Superconductivity, 1997, 7, 853-856.	1.7	7
49	Simplified calculus for the design of a cryogenic current comparator. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 612-616.	4.7	7
50	Magnetic phase diagrams of R <sub>3</sub> (Co:Ni) <sub>13</sub> B <sub>2</sub> , R=Y and Nd intermetallic compounds. Journal of Alloys and Compounds, 2007, 442, 11-16.	5.5	7
51	Heat capacity measurements of itinerant electron magnetism in Y <sub>3</sub> Ni <sub>13</sub> xCOx <sub>2</sub> system. Journal of Magnetism and Magnetic Materials, 2007, 316, 166-169.	2.3	7
52	Non-linearity of the YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> + $\hat{\Gamma}$ low field diamagnetic properties: Multi-harmonic analysis.. Physica C: Superconductivity and Its Applications, 1989, 162-164, 325-326.	1.2	6
53	Critical current model analysis of inter- and intra-grain effects in a high density sintered Tl—,Ba—,Ca—,Cu—,O ceramic. Physica C: Superconductivity and Its Applications, 1991, 183, 73-82.	1.2	6
54	Magnetic phase transitions in MnRhAs single crystal: an ac susceptibility study. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1995-1996.	2.3	6

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55	Magnetic and electric transport properties of Ag/(Bi,Pb) <sub>1-x</sub> Sr <sub>1-x</sub> Ca <sub>1-x</sub> Cu <sub>1-x</sub> O superconducting fibres. <i>Cryogenics</i> , 1992, 32, 969-974.	1.7	6
56	Low input coil inductance SQUIDs for cryogenic current comparator applications. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 3487-3490.	1.7	6
57	Diamagnetism and electrical connectivity in an inhomogeneous Ba <sub>2</sub> YCu <sub>3</sub> O <sub>7-x</sub> superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 1988, 153-155, 389-390.	1.2	5
58	Microstructure and diamagnetism in superconducting TmBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 1988, 74, 263-270.	2.3	5
59	Diamagnetic properties of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> presintered powders: Critical current densities and a.c. losses. <i>Cryogenics</i> , 1989, 29, 1128-1134.	1.7	5
60	D.c. field tuning of inter- and intragranular effects in Y <sub>1-x</sub> Ba <sub>x</sub> Cu <sub>1-x</sub> O ceramics. <i>Cryogenics</i> , 1993, 33, 314-320.	1.7	5
61	Purification of Recovered Helium with Low level of Impurities: Evaluation of Two Different Methods. <i>Physics Procedia</i> , 2015, 67, 158-162.	1.2	5
62	Hydrogen-Free Liquid-Helium Recovery Plants: The Solution for Low-Temperature Flow Impedance Blocking. <i>Physical Review Applied</i> , 2016, 6, .	3.8	5
63	Y-Sm twinned and untwinned high temperature superconductors: a comparative study. <i>Cryogenics</i> , 1989, 29, 350-354.	1.7	4
64	Critical currents and relaxation effects in Nd <sub>2-x</sub> Ce <sub>x</sub> CuO <sub>4-y</sub> single crystals. <i>Cryogenics</i> , 1990, 30, 656-659.	1.7	4
65	Structural, $\chi$ ac susceptibility and high magnetic field characterization of the new hard magnetic nitrides R <sub>2</sub> Fe <sub>17</sub> N <sub>x</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 1992, 104-107, 2003-2005.	2.3	4
66	Accurate measurement of small currents using a CCC with DC SQUID readout. <i>Sensors and Actuators A: Physical</i> , 2000, 85, 54-59.	4.1	4
67	Magnetic relaxation phenomena in R <sub>2</sub> Fe <sub>17</sub> (R=Y, Dy, Er, Ho) and C and H derivatives. <i>Journal of Alloys and Compounds</i> , 2003, 356-357, 208-210.	5.5	4
68	A square-pyramidal organochromium( $\chi$ ) compound. <i>Dalton Transactions</i> , 2012, 41, 1297-1303.	3.3	4
69	Influence of Sb and Pb substitution on the physical properties of the Bi Sr Ca Cu O compounds. <i>Physica C: Superconductivity and Its Applications</i> , 1989, 162-164, 863-864.	1.2	3
70	On inhomogeneous superconductivity in Fe substituted YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . <i>Physica C: Superconductivity and Its Applications</i> , 1989, 162-164, 41-42.	1.2	3
71	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.	3.5	3
72	Effects of interstitial elements in iron-rare earth alloys. <i>Physica B: Condensed Matter</i> , 1992, 180-181, 632-634.	2.7	3

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73	Magnetic phase transitions in $(\text{Fe}_{1-x}\text{Ru}_x)_2\text{P}$ ( $0.25 \leq x \leq 0.6$ ). Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1993-1994.	2.3	3
74	CCC inductances calculation: validity of the image method. , 0, , .		3
75	On the sensitivity of high-Tc superconducting ceramics as magnetic field sensors. Sensors and Actuators A: Physical, 1991, 27, 775-780.	4.1	2
76	Laser floating zone growth of textured $\text{Ag}/(\text{Bi,Pb})_i\text{Sr}_i\text{Ca}_i\text{Cu}_i\text{O}$ superconductors. Advanced Materials, 1992, 4, 505-508.	21.0	2
77	Progress in the establishment of a Josephson voltage standard at the Spanish TPA. IEEE Transactions on Instrumentation and Measurement, 1993, 42, 593-595.	4.7	2
78	Interaction between parallel magnetic fields and transport currents in YBCO superconductors. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2989-2990.	1.2	2
79	Experimental analysis of thermalisation and emissivity of radiation screens for cryostat design. Cryogenics, 1998, 38, 953-958.	1.7	2
80	Texture analysis and microstructural features in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ zone-partial-melted samples with $\text{Y}_2\text{BaCuO}_5$ additions. Journal of Materials Research, 1999, 14, 1711-1719.	2.6	2
81	Resistance bridge based on the cryogenic current comparator in a transport dewar. IEEE Transactions on Applied Superconductivity, 2001, 11, 867-870.	1.7	2
82	On the sensitivity of cryogenic current comparators: theory and experiments. Metrologia, 2003, 40, 51-56.	1.2	2
83	Low Temperature Heat Capacity Study of $\text{Nd}_{1-x}\text{Ni}_x\text{Co}_x\text{B}_2$ Series. Solid State Phenomena, 0, 152-153, 466-469.	0.3	2
84	Helium Contamination Through Polymeric Walls. Physics Procedia, 2015, 67, 141-146.	1.2	2
85	Thermal and magnetic properties of $\text{Bi}_2\text{CuO}_4$ (abstract). Journal of Applied Physics, 1990, 67, 5761-5761.	2.5	1
86	Superconducting composite wires and tapes. Applied Superconductivity, 1994, 2, 377-385.	0.5	1
87	Josephson Voltage Standard International Comparison. Metrologia, 1995, 31, 395-397.	1.2	1
88	Spin reorientation phenomena in the $\text{NdYFe}_{14-x}\text{Co}_x\text{B}$ system. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 639-640.	2.3	1
89	Note: A sample holder design for sensitive magnetic measurements at high temperatures in a magnetic properties measurement system. Review of Scientific Instruments, 2012, 83, 066106.	1.3	1
90	COMMENSURATE-INCOMMENSURATE PHASE TRANSITION IN $(\text{Co}_{1-x}\text{Mn}_x)_2\text{P}$ . Journal De Physique Colloque, 1988, 49, C8-197-C8-198.	0.2	1

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91	New materials derived from the barium lead bismuth oxide (BPB) superconductor. Solid State Ionics, 1989, 32-33, 1167-1171.	2.7	0
92	Magnetic hysteresis effects in the ac susceptibility of YBaCuO ceramics. Physica C: Superconductivity and Its Applications, 1994, 235-240, 3189-3190.	1.2	0
93	Design and realisation of an optimal current sensitive CCC. , 0, , .		0
94	One hundred years of metrology at the Spanish TPYCEA. , 0, , .		0
95	Zero-current voltage oscillations and non-linear transport in Quantum Hall GaAs-AlGaAs heterostructures. , 0, , .		0
96	Simplified calculus for the design of a cryogenic current comparator. , 0, , .		0
97	Synthesis, electrochemical behavior and magnetic properties of polyradicals of the TTM series. Tetrahedron, 2007, 63, 708-716.	1.9	0
98	Semi automated dc-squid based CCC bridge for precision resistance measurements at the Spanish TPYCEA. , 2008, , .		0
99	Magnetic Interaction between $d_{11}$ [MOR <sub>4</sub> ] $\tilde{a}$ Units of Molybdenum and Tungsten. Solid State Phenomena, 0, 257, 223-226.	0.3	0