

# Conrado Rillo

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5129263/publications.pdf>

Version: 2024-02-01

99  
papers

1,048  
citations

471477

17  
h-index

526264

27  
g-index

100  
all docs

100  
docs citations

100  
times ranked

913  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen-Free Liquid-Helium Recovery Plants: The Solution for Low-Temperature Flow Impedance Blocking. <i>Physical Review Applied</i> , 2016, 6, .	3.8	5
2	Helium Contamination Through Polymeric Walls. <i>Physics Procedia</i> , 2015, 67, 141-146.	1.2	2
3	Enhancement of the Liquefaction Rate in Small-Scale Helium Liquefiers Working Near and Above the Critical Point. <i>Physical Review Applied</i> , 2015, 3, .	3.8	9
4	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
5	Homoleptic Organocobalt(III) Compounds with Intermediate Spin. <i>Inorganic Chemistry</i> , 2014, 53, 12384-12395.	4.0	19
6	A square-pyramidal organochromium( $\langle \text{scp} \rangle \text{v} \langle \text{scp} \rangle$ ) compound. <i>Dalton Transactions</i> , 2012, 41, 1297-1303.	3.3	4
7	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.	1.3	1
8	Synthesis, characterisation and magnetic properties of octahedral chromium( $\langle \text{scp} \rangle \text{iii} \langle \text{scp} \rangle$ ) compounds with six C-donor ligands. <i>Dalton Transactions</i> , 2011, 40, 853-861.	3.3	8
9	Organoniobium Compounds with $[\text{NbR}_{\langle \text{sub} \rangle 4 \langle \text{sub} \rangle}]^{\langle \text{sup} \rangle \hat{\text{v}} \langle \text{sup} \rangle}$ and $\text{NbR}_{\langle \text{sub} \rangle 4 \langle \text{sub} \rangle}$ Stoichiometries. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6143-6146.	13.8	8
10	Homoleptic Organoderivatives of High-Valent Nickel(III). <i>Chemistry - A European Journal</i> , 2009, 15, 11020-11030.	3.3	22
11	Semi automated dc-squid based CCC bridge for precision resistance measurements at the Spanish TPYCEA. , 2008, , .		0
12	Nonlinear response of single-molecule magnets: Field-tuned quantum-to-classical crossovers. <i>Physical Review B</i> , 2007, 75, .	3.2	8
13	Disposable sample holder for high temperature measurements in MPMS superconducting quantum interference device magnetometers. <i>Review of Scientific Instruments</i> , 2007, 78, 046101.	1.3	11
14	Magnetic phase diagrams of $\text{R}_3(\text{Co:Ni})_2\text{B}_2$ , $\text{R}=\text{Y}$ and $\text{Nd}$ intermetallic compounds. <i>Journal of Alloys and Compounds</i> , 2007, 442, 11-16.	5.5	7
15	Synthesis, electrochemical behavior and magnetic properties of polyradicals of the TTM series. <i>Tetrahedron</i> , 2007, 63, 708-716.	1.9	0
16	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
17	Heat capacity measurements of itinerant electron magnetism in $\text{Y}_3\text{Ni}_{13}\hat{\text{x}}\text{Co}_x\text{B}_2$ system. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, 166-169.	2.3	7
18	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). <i>Journal of Structural Geology</i> , 2006, 28, 641-653.	2.3	16

#	ARTICLE	IF	CITATIONS
19	A Square-Planar Organoiron(III) Compound with a Spin-Admixed State. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6707-6711.	13.8	49
20	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
21	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
22	Simplified calculus for the design of a cryogenic current comparator. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2003, 52, 612-616.	4.7	7
23	Study of MgB <sub>2</sub> powders and Cu/MgB <sub>2</sub> powder-in-tube composite wires with Zn addition. <i>IEEE Transactions on Applied Superconductivity</i> , 2003, 13, 3210-3213.	1.7	10
24	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
25	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
26	On the sensitivity of cryogenic current comparators: theory and experiments. <i>Metrologia</i> , 2003, 40, 51-56.	1.2	2
27	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
28	Resistance bridge based on the cryogenic current comparator in a transport dewar. <i>IEEE Transactions on Applied Superconductivity</i> , 2001, 11, 867-870.	1.7	2
29	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
30	Magnetic behavior of Pr <sub>1-x</sub> CaxMnO <sub>3</sub> in the electric-field-driven insulator-metal transition. <i>Physical Review B</i> , 2000, 61, 11236-11239.	3.2	53
31	Low input coil inductance SQUIDs for cryogenic current comparator applications. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 3487-3490.	1.7	6
32	Texture analysis and microstructural features in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> zone-partial-melted samples with Y <sub>2</sub> BaCuO <sub>5</sub> additions. <i>Journal of Materials Research</i> , 1999, 14, 1711-1719.	2.6	2
33	Design and realization of an optimal current sensitive CCC. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1999, 48, 370-374.	4.7	8
34	Ultimate current resolution of a cryogenic current comparator. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1999, 48, 1306-1313.	4.7	17
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. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 196-197, 561-563.	2.3	9
36	Spin reorientation phenomena in the NdYFe <sub>14-x</sub> CoxB system. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 196-197, 639-640.	2.3	1

#	ARTICLE	IF	CITATIONS
37	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
38	Experimental analysis of thermalisation and emissivity of radiation screens for cryostat design. Cryogenics, 1998, 38, 953-958.	1.7	2
39	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
40	Josephson Voltage Standard International Comparison. Metrologia, 1995, 31, 395-397.	1.2	1
41	Intergranular properties of YBCO and BSCCO ceramic superconductors at low fields. Physica C: Superconductivity and Its Applications, 1994, 230, 361-370.	1.2	14
42	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
43	Magnetic hysteresis effects in the ac susceptibility of YBaCuO ceramics. Physica C: Superconductivity and Its Applications, 1994, 235-240, 3189-3190.	1.2	0
44	Superconducting composite wires and tapes. Applied Superconductivity, 1994, 2, 377-385.	0.5	1
45	Fabrication of Ag/(Bi,Pb) $\hat{=}$ ,Sr $\hat{=}$ ,Ca $\hat{=}$ ,Cu $\hat{=}$ ,O superconducting tapes. Cryogenics, 1993, 33, 117-123.	1.7	15
46	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
47	D.c. field tuning of inter- and intragranular effects in Y $\hat{=}$ ,Ba $\hat{=}$ ,Cu $\hat{=}$ ,O ceramics. Cryogenics, 1993, 33, 314-320.	1.7	5
48	Solution-based synthesis routes to (Bi1 $\hat{=}$ xPbx)2Sr2Ca2Cu3O10+ $\hat{=}$ . Journal of Materials Research, 1993, 8, 1268-1276.	2.6	31
49	Inductive and transport simultaneous measurements of the superconducting properties of YBaCuO ceramics: a comparative study. Superconductor Science and Technology, 1992, 5, S415-S418.	3.5	3
50	On the structural and magnetic properties of the new ternary nitride series R2Fe17Nx. Journal of Alloys and Compounds, 1992, 178, 15-22.	5.5	17
51	Effects of interstitial elements in iron-rare earth alloys. Physica B: Condensed Matter, 1992, 180-181, 632-634.	2.7	3
52	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
53	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
54	Magnetic phase transitions in (Fe1 $\hat{=}$ xRux)2P (0.25 $\hat{=}$ x $\hat{=}$ 0.6). Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1993-1994.	2.3	3

#	ARTICLE	IF	CITATIONS
55	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
56	Structural, $\mu$ ac susceptibility and high magnetic field characterization of the new hard magnetic nitrides $R_2Fe_{17}N_x$ . Journal of Magnetism and Magnetic Materials, 1992, 104-107, 2003-2005.	2.3	4
57	Magnetic and electric transport properties of $Ag/(Bi,Pb)_{1-x}Sr_xCa_{1-x}Cu_{1-x}O$ superconducting fibres. Cryogenics, 1992, 32, 969-974.	1.7	6
58	Laser floating zone growth of textured $Ag/(Bi,Pb)_{1-x}Sr_xCa_{1-x}Cu_{1-x}O$ superconductors. Advanced Materials, 1992, 4, 505-508.	21.0	2
59	Hydrogenation, crystal structure and magnetic ordering of $R_2Fe_{14}C$ ( $R = Sm, Er, Tm$ ). Journal of the Less Common Metals, 1991, 168, 321-328.	0.8	12
60	Structural and magnetic study of $Ho_2Fe_{14}BH_x$ ( $x = 0 \leq 3.1$ ). Journal of the Less Common Metals, 1991, 171, 71-82.	0.8	26
61	A 19-channel d.c. SQUID magnetometer system for brain research. Sensors and Actuators A: Physical, 1991, 27, 781-785.	4.1	7
62	Critical current model analysis of inter- and intra-grain effects in a high density sintered $Tl_{1-x}Ba_xCa_{1-x}Cu_{1-x}O$ ceramic. Physica C: Superconductivity and Its Applications, 1991, 183, 73-82.	1.2	6
63	$(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10+\delta}$ superconductor composites: Ceramics vs. fibers. Physica C: Superconductivity and Its Applications, 1991, 185-189, 2401-2402.	1.2	29
64	Influence of oxygen stoichiometry on $T_c$ and pinning force of $Bi_2Sr_2CaCu_2O_{8+\delta}$ . Physica C: Superconductivity and Its Applications, 1991, 185-189, 2475-2476.	1.2	7
65	Polymer solution processing of $(Bi, Pb)_{1-x}Sr_xCa_{1-x}Cu_{1-x}O$ . Physica C: Superconductivity and Its Applications, 1991, 185-189, 509-510.	1.2	34
66	Systematic magnetic ac susceptibility study of $(RE)_2Fe_{14}BH_x$ and $(RE)_2Fe_{14}CH_x$ . Journal of Magnetism and Magnetic Materials, 1991, 101, 372-374.	2.3	11
67	On the sensitivity of high- $T_c$ superconducting ceramics as magnetic field sensors. Sensors and Actuators A: Physical, 1991, 27, 775-780.	4.1	2
68	LFZ growth of $(Bi, Pb)_{1-x}Sr_xCa_{1-x}Cu_{1-x}O$ superconducting fibers. Journal of Materials Research, 1991, 6, 699-703.	2.6	12
69	Thermal, electric and magnetic anomalies in the spin reorientation phase transitions of $RE_2Fe_{14}B$ . Journal of Magnetism and Magnetic Materials, 1990, 83, 289-290.	2.3	14
70	Magnetic phase diagram of the $(Fe_{1-x}Mn_x)_2P$ system. Journal of Magnetism and Magnetic Materials, 1990, 83, 313-314.	2.3	15
71	Low noise SQUID simulator with large dynamic range of up to eight flux quanta. Cryogenics, 1990, 30, 324-329.	1.7	7
72	Critical currents and relaxation effects in $Nd_{2-x}Ce_xCuO_4$ single crystals. Cryogenics, 1990, 30, 656-659.	1.7	4

#	ARTICLE	IF	CITATIONS
73	YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> low field diamagnetic properties. Physica C: Superconductivity and Its Applications, 1990, 167, 549-559.	1.2	22
74	Thermal and magnetic properties of Bi <sub>2</sub> CuO <sub>4</sub> (abstract). Journal of Applied Physics, 1990, 67, 5761-5761.	2.5	1
75	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
76	Thermogravimetry and neutron thermodiffractometry studies of the H-YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> system. Journal of the Less Common Metals, 1990, 157, 233-244.	0.8	25
77	Influence of Sb and Pb substitution on the physical properties of the Bi Sr Ca Cu O compounds. Physica C: Superconductivity and Its Applications, 1989, 162-164, 863-864.	1.2	3
78	Diamagnetism and critical currents of Bi <sub>1-x</sub> Ca <sub>x</sub> Sr <sub>1-x</sub> Cu <sub>1-x</sub> O samples. Cryogenics, 1989, 29, 379-383.	1.7	7
79	Y-Sm twinned and untwinned high temperature superconductors: a comparative study. Cryogenics, 1989, 29, 350-354.	1.7	4
80	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. Cryogenics, 1989, 29, 1128-1134.	1.7	5
81	On inhomogeneous superconductivity in Fe substituted YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Physica C: Superconductivity and Its Applications, 1989, 162-164, 41-42.	1.2	3
82	Non-linearity of the YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> low field diamagnetic properties: Multi-harmonic analysis.. Physica C: Superconductivity and Its Applications, 1989, 162-164, 325-326.	1.2	6
83	Anisotropy in the diamagnetic properties of oriented Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+<math>\delta</math></sub> polycrystalline fibers. Solid State Communications, 1989, 72, 1003-1008.	1.9	8
84	New materials derived from the barium lead bismuth oxide (BPB) superconductor. Solid State Ionics, 1989, 32-33, 1167-1171.	2.7	0
85	Magnetic energy absorption in sintered YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> samples. Physica C: Superconductivity and Its Applications, 1988, 153-155, 1533-1534.	1.2	7
86	Diamagnetism and electrical connectivity in an inhomogeneous Ba <sub>2</sub> YCu <sub>3</sub> O <sub>7-<math>\delta</math></sub> superconductor. Physica C: Superconductivity and Its Applications, 1988, 153-155, 389-390.	1.2	5
87	Microstructure and diamagnetism in superconducting TmBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Journal of Magnetism and Magnetic Materials, 1988, 74, 263-270.	2.3	5
88	Structural and magnetic properties of R <sub>2</sub> /Fe <sub>14</sub> /BH <sub>x</sub> . IEEE Transactions on Magnetics, 1988, 24, 1641-1643.	2.1	38
89	Dynamical susceptibility of Ho <sub>2</sub> Fe <sub>14</sub> B single crystal: Spin rotation and domain wall motions. Journal of Applied Physics, 1988, 64, 5534-5536.	2.5	19
90	COMMENSURATE-INCOMMENSURATE PHASE TRANSITION IN (Co <sub>1-x</sub> Mn <sub>x</sub> ) <sub>2</sub> P. Journal De Physique Colloque, 1988, 49, C8-197-C8-198.	0.2	1

#	ARTICLE	IF	CITATIONS
91	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
92	Superconducting weak links in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> an AC magnetic susceptibility study. Journal of Magnetism and Magnetic Materials, 1987, 69, L225-L229.	2.3	41
93	CCC inductances calculation: validity of the image method. , 0, , .		3
94	Design and realisation of an optimal current sensitive CCC. , 0, , .		0
95	One hundred years of metrology at the Spanish TPYCEA. , 0, , .		0
96	Zero-current voltage oscillations and non-linear transport in Quantum Hall GaAs-AlGaAs heterostructures. , 0, , .		0
97	Simplified calculus for the design of a cryogenic current comparator. , 0, , .		0
98	Low Temperature Heat Capacity Study of Nd <sub>3</sub> Ni <sub>13-x</sub> Co <sub>x</sub> B <sub>2</sub> Series. Solid State Phenomena, 0, 152-153, 466-469.	0.3	2
99	Magnetic Interaction between d <sup>1</sup> [MOR <sub>4</sub> ] <sup>+</sup> Units of Molybdenum and Tungsten. Solid State Phenomena, 0, 257, 223-226.	0.3	0