

# Gregoire Bonfait

## List of Publications by Citations

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72  
papers

755  
citations

16  
h-index

24  
g-index

72  
ext. papers

949  
ext. citations

3  
avg, IF

3.08  
L-index

#	Paper	IF	Citations
72	Low-dimensional molecular metals bis(maleonitriledithiolato)bis(perylene)metal, metal = iron and cobalt. <i>Inorganic Chemistry</i> , <b>1992</b> , 31, 2598-2604	5.1	51
71	Mobility of the $^3\text{He}$ solid-liquid interface: Experiment and theory. <i>Journal of Low Temperature Physics</i> , <b>1986</b> , 62, 315-327	1.3	43
70	Strongly Polarized Liquid $\text{He}_3$ : Experimental Access to the Melting Curve. <i>Physical Review Letters</i> , <b>1984</b> , 53, 1092-1095	7.4	43
69	(Perylene) $\text{Co}(\text{mnt})_2(\text{CH}_2\text{Cl}_2)_{0.5}$ : a mixed perylenecobalt complex as molecular and polymeric conductor. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 1986-1989	16.4	41
68	Neon gas-gap heat switch. <i>Cryogenics</i> , <b>2008</b> , 48, 17-25	1.8	39
67	Polarized $^3\text{He}$ : A New Phase?. <i>Europhysics Letters</i> , <b>1986</b> , 1, 521-527	1.6	34
66	The Interplay Between Conduction Electrons and Chains of Localised Spins in The Molecular Metals $(\text{Per})_2\text{M}(\text{mnt})_2$ , $\text{M}=\text{Au}$ , $\text{Pt}$ , $\text{Pd}$ , $\text{Ni}$ , $\text{Cu}$ , $\text{Co}$ and $\text{Fe}$ . <i>Molecular Crystals and Liquid Crystals</i> , <b>1993</b> , 234, 171-178		32
65	Giant-magnetoresistance anomaly associated with a magnetization process in $\text{UFe}_4\text{Al}_8$ . <i>Physical Review B</i> , <b>1996</b> , 53, R480-R483	3.3	31
64	Modification of the magnetic-field dependence of the Peierls transition by a magnetic chain. <i>Physical Review B</i> , <b>1996</b> , 54, 15307-15313	3.3	31
63	Anomalous magnetization cycle of $\text{UFe}_4\text{Al}_8$ single crystals: A Mössbauer effect study. <i>Physical Review B</i> , <b>1999</b> , 60, 4074-4081	3.3	25
62	Magnetic field dependence of the metal-insulator transition in $(\text{PER})_2\text{Pt}(\text{mnt})_2$ and $(\text{PER})_2\text{Au}(\text{mnt})_2$ . <i>Solid State Communications</i> , <b>1991</b> , 80, 391-394	1.6	24
61	Magnetic properties of a $\text{UFe}_4\text{Al}_8$ single crystal. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1995</b> , 140-144, 1417-1418	2.8	21
60	Sound Velocity in Highly Polarized $^3\text{He}$ . <i>Europhysics Letters</i> , <b>1987</b> , 3, 489-495	1.6	20
59	The Peierls transition under high magnetic field. <i>Physica B: Condensed Matter</i> , <b>1995</b> , 211, 297-299	2.8	17
58	Gas gap thermal switches using neon or hydrogen and sorption pump. <i>Vacuum</i> , <b>2009</b> , 83, 1270-1273	3.7	16
57	Magnetoresistance and Hall effect in unidirectionally twinned $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films. <i>Physical Review B</i> , <b>1999</b> , 59, 1538-1545	3.3	16
56	$\text{UFe}_6\text{Ge}_6$ : a new ternary magnetic compound. <i>Journal of Alloys and Compounds</i> , <b>1994</b> , 204, 59-64	5.7	16

55	Structural Transitions in the MIL-53(Al) Metal-Organic Framework upon Cryogenic Hydrogen Adsorption. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 24252-24263	3.8	12
54	Narrow gas gap in cryogenic heat switch. <i>Applied Thermal Engineering</i> , <b>2014</b> , 70, 115-121	5.8	12
53	CDW state and superconductivity in the quasi-two-dimensional monophosphate tungsten bronze P4W14O50. <i>Solid State Communications</i> , <b>1997</b> , 104, 663-668	1.6	12
52	Polarized 3He : dendritic melting. <i>Journal De Physique</i> , <b>1986</b> , 47, 723-725		11
51	Localization effects in the charge density wave state [4] of the quasi-two-dimensional monophosphate tungsten bronzes $\{(P_{O_2})_4(W_{O_3})_{2m}\}$ ( $m = 7, 8, 9$ ). <i>European Physical Journal B</i> , <b>2000</b> , 14, 73-82	1.2	10
50	Liquid nitrogen energy storage unit. <i>Cryogenics</i> , <b>2011</b> , 51, 621-629	1.8	9
49	20 K Energy storage unit. <i>Cryogenics</i> , <b>2009</b> , 49, 326-333	1.8	9
48	6K solid state Energy Storage Unit. <i>Cryogenics</i> , <b>2010</b> , 50, 102-110	1.8	9
47	A simple calorimeter for fast adiabatic heat capacity measurements from 15 to 300 K based on closed cycle cryocooler. <i>Cryogenics</i> , <b>2000</b> , 40, 425-430	1.8	8
46	Electronic Instabilities and Localization Effects in the Quasi-Two-Dimensional Monophosphate Tungsten Bronzes $(PO_2)_4(WO_3)_{2m}$ and $K_xP_4W_8O_{32}$ . <i>Journal of Solid State Chemistry</i> , <b>1999</b> , 147, 320-327	3.3	8
45	High field magnetoresistance of $UFe_4Al_8$ . <i>Physica B: Condensed Matter</i> , <b>1995</b> , 211, 139-141	2.8	8
44	Material for resistive barriers in Bi-2223/Ag tapes. <i>Superconductor Science and Technology</i> , <b>2001</b> , 14, 966-972	3.1	7
43	Magnetic and transport properties of the alloys $(Perylene)_2[Au_{1-x}Pt_x(mnt)_2]$ . <i>Synthetic Metals</i> , <b>1993</b> , 56, 1858-1863	3.6	7
42	A simple pendulum studied with a low-cost wireless acquisition board. <i>Physics Education</i> , <b>2019</b> , 54, 0150158	1.5	7
41	Cryogenic neon adsorption on $Co_3(ndc)_3(dabco)$ metal-organic framework. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 298, 110055	5.3	6
40	Building a Thinner Gap in a Gas-Gap Heat Switch. <i>Physics Procedia</i> , <b>2015</b> , 67, 1117-1122		6
39	Electron Doping of $Ca_4Mn_3O_{10}$ Induced by Vanadium Substitution. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 4852-4857	9.6	6
38	Charge-density-wave instabilities and quantum transport in the monophosphate tungsten bronzes with $m = 5$ alternate structure. <i>European Physical Journal B</i> , <b>2000</b> , 17, 215-226	1.2	6

37	Structural and magnetic properties of UFeM <sub>12</sub> (M = Al, Mo and Si) intermetallic compounds. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1995</b> , 140-144, 1419-1420	2.8	6
36	The (Per) <sub>2</sub> M(mnt) <sub>2</sub> series: The interaction of 1D conduction electrons with localised spin chains. <i>Synthetic Metals</i> , <b>1993</b> , 56, 1846-1851	3.6	6
35	Response of a metastable superconducting grains suspension to irradiation by <sup>35</sup> S decay electrons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1993</b> , 334, 645-648	1.2	6
34	A new description of the behavior of metastable superconducting grains suspensions under irradiation. <i>Journal of Low Temperature Physics</i> , <b>1993</b> , 93, 485-490	1.3	6
33	Sorption characterization and actuation of a gas-gap heat switch. <i>Sensors and Actuators A: Physical</i> , <b>2011</b> , 171, 324-331	3.9	5
32	Twin-boundary effect on the Hall conductivity in high-T <sub>c</sub> superconducting thin films. <i>Physical Review B</i> , <b>1997</b> , 56, 5677-5682	3.3	5
31	Superconductivity in the charge density wave state of the quasi-two-dimensional monophosphate tungsten bronze P4W <sub>14</sub> O <sub>50</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 282-287, 955-956	1.3	5
30	Structural, magnetic, and transport studies of La <sub>0.8</sub> MnO <sub>3</sub> films. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 4518-4523	3.5	5
29	Structural studies of annealed ultrathin La <sub>0.8</sub> MnO <sub>3</sub> films. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 2663-2665	3.4	5
28	Evolution of magnetism in the UFeAl <sub>12</sub> intermetallic series. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 284-288, 1339-1340	2.8	5
27	Neon Adsorption on HKUST-1 and UiO-66 Metal-Organic Frameworks over Wide Pressure and Temperature Ranges. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 5407-5414	2.8	4
26	40 K Liquid Neon Energy Storage Unit. <i>Physics Procedia</i> , <b>2015</b> , 67, 1193-1198		4
25	CUSTOMIZABLE GAS-GAP HEAT SWITCH <b>2010</b> ,		4
24	Model for the broadening of the resistive transition in thin films. <i>Superconductor Science and Technology</i> , <b>1997</b> , 10, 75-81	3.1	4
23	Liquid-gas hydrogen energy storage unit for the 15-17 K temperature range using an expansion volume at room temperature. <i>Applied Thermal Engineering</i> , <b>2017</b> , 125, 1239-1252	5.8	3
22	Magnetic properties of UFe <sub>5</sub> Sn single crystals. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 260, 473-479	2.8	3
21	Variation of vortex structure characteristics of Bi-2223/Ag superconducting tapes with respect to applied magnetic field direction. <i>Physica C: Superconductivity and Its Applications</i> , <b>2005</b> , 426-431, 396-401	1.3	3
20	UHV sample holder for fast heating and cooling cycles. <i>Vacuum</i> , <b>1999</b> , 52, 23-26	3.7	3

19	Anomalous magnetisation process in UFe <sub>4</sub> Al <sub>8</sub> probed by magnetisation and magnetoresistance. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1996</b> , 157-158, 690-691	2.8	3
18	Liquid-gas cryogenic energy storage units operating at constant temperature. <i>Applied Thermal Engineering</i> , <b>2016</b> , 95, 178-185	5.8	2
17	The Solid Solutions (Per) <sub>2</sub> [Pt <sub>x</sub> Au(1-x)(mnt) <sub>2</sub> ]; Alloying Para- and Diamagnetic Anions in Two-Chain Compounds. <i>Magnetochemistry</i> , <b>2017</b> , 3, 22	3.1	2
16	Energy storage unit: Solid state demonstrators at 20K and 6K. <i>Cryogenics</i> , <b>2010</b> , 50, 522-528	1.8	2
15	Effect of V substitution in Ca <sub>4</sub> Mn <sub>3</sub> O <sub>10</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, E315-E316	2.8	2
14	The CAMCAO infrared camera <b>2004</b> , 5492, 1699		2
13	15 K liquid hydrogen thermal Energy Storage Unit for future ESA science missions. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 101, 012191	0.4	1
12	Gas gap heat switch for a cryogen-free magnet system. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 101, 012144	0.4	1
11	Single-crystal study on the heavy-fermion antiferromagnet UZn. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 045602	1.8	1
10	The effect of Th substitution for U in the heavy fermion U <sub>2</sub> Pt <sub>2</sub> In. <i>Journal of Alloys and Compounds</i> , <b>2001</b> , 317-318, 419-422	5.7	1
9	Localization effects in the charge density wave state of the quasi-two-dimensional conductors (PO <sub>2</sub> ) <sub>4</sub> (WO <sub>3</sub> ) <sub>2m</sub> (m=7). <i>Physica B: Condensed Matter</i> , <b>1999</b> , 259-261, 974-975	2.8	1
8	Hall effect in RBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> (R=Y,Yb) thin films in high magnetic fields. <i>European Physical Journal D</i> , <b>1996</b> , 46, 1753-1754		1
7	High field magnetoresistance of high quality YBaCuO films: Thermally activated flux-flow?. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 235-240, 3139-3140	1.3	1
6	Low-temperature thermal conductivity of highly porous copper. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 101, 012004	0.4	
5	Contribution to the study of neon-nitrogen mixtures at low temperatures. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 101, 012121	0.4	
4	Magnetic field dependence of the non-Fermi-liquid state in ferromagnetic CePd <sub>1-x</sub> Nix. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, 207-208	2.8	
3	Shubnikov-de Haas effect in the quasi-two-dimensional bronze P <sub>4</sub> W <sub>8</sub> O <sub>32</sub> . <i>European Physical Journal D</i> , <b>1996</b> , 46, 2617-2618		
2	Magnetisation and magnetoresistance of a hexagonal UPtSn single crystal. <i>European Physical Journal D</i> , <b>1996</b> , 46, 2079-2080		

- 1 Study of metastable superconducting detector response to irradiation using SQUID-readout.  
*Journal of Low Temperature Physics*, **1993**, 93, 467-472 1.3