Grgoire Bonfait

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.

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	Cryogenic neon adsorption on Co3(ndc)3(dabco) metal-organic framework. *Microporous and Mesoporous Materials*, **2020**, 298, 110055	5.3	6
71	Neon Adsorption on HKUST-1 and UiO-66 Metal−Organic Frameworks over Wide Pressure and Temperature Ranges. *Journal of Chemical & Engineering Data*, **2019**, 64, 5407-5414	2.8	4
70	A simple pendulum studied with a low-cost wireless acquisition board. *Physics Education*, **2019**, 54, 015015	0.8	7
69	Structural Transitions in the MIL-53(Al) Metal−Organic Framework upon Cryogenic Hydrogen Adsorption. *Journal of Physical Chemistry C*, **2017**, 121, 24252-24263	3.8	12
68	Liquid-gas hydrogen energy storage unit for the 15−17 K temperature range using an expansion volume at room temperature. *Applied Thermal Engineering*, **2017**, 125, 1239-1252	5.8	3
67	The Solid Solutions (Per)2[PtxAu(1−x)(mnt)2]; Alloying Para- and Diamagnetic Anions in Two-Chain Compounds. *Magnetochemistry*, **2017**, 3, 22	3.1	2
66	Liquid−gas cryogenic energy storage units operating at constant temperature. *Applied Thermal Engineering*, **2016**, 95, 178-185	5.8	2
65	Building a Thinner Gap in a Gas-Gap Heat Switch. *Physics Procedia*, **2015**, 67, 1117-1122		6
64	Low-temperature thermal conductivity of highly porous copper. *IOP Conference Series: Materials Science and Engineering*, **2015**, 101, 012004	0.4	
63	15 K liquid hydrogen thermal Energy Storage Unit for future ESA science missions. *IOP Conference Series: Materials Science and Engineering*, **2015**, 101, 012191	0.4	1
62	Gas gap heat switch for a cryogen-free magnet system. *IOP Conference Series: Materials Science and Engineering*, **2015**, 101, 012144	0.4	1
61	Contribution to the study of neon-nitrogen mixtures at low temperatures. *IOP Conference Series: Materials Science and Engineering*, **2015**, 101, 012121	0.4	
60	40 K Liquid Neon Energy Storage Unit. *Physics Procedia*, **2015**, 67, 1193-1198		4
59	Narrow gas gap in cryogenic heat switch. *Applied Thermal Engineering*, **2014**, 70, 115-121	5.8	12
58	Sorption characterization and actuation of a gas-gap heat switch. *Sensors and Actuators A: Physical*, **2011**, 171, 324-331	3.9	5
57	Liquid nitrogen energy storage unit. *Cryogenics*, **2011**, 51, 621-629	1.8	9
56	Single-crystal study on the heavy-fermion antiferromagnet UZn*Journal of Physics Condensed Matter*, **2011**, 23, 045602	1.8	1

55	CUSTOMIZABLE GAS-GAP HEAT SWITCH **2010**,		4
54	6K solid state Energy Storage Unit. *Cryogenics*, **2010**, 50, 102-110	1.8	9
53	Energy storage unit: Solid state demonstrators at 20K and 6K. *Cryogenics*, **2010**, 50, 522-528	1.8	2
52	Gas gap thermal switches using neon or hydrogen and sorption pump. *Vacuum*, **2009**, 83, 1270-1273	3.7	16
51	20 K Energy storage unit. *Cryogenics*, **2009**, 49, 326-333	1.8	9
50	Neon gas-gap heat switch. *Cryogenics*, **2008**, 48, 17-25	1.8	39
49	Electron Doping of Ca4Mn3O10 Induced by Vanadium Substitution. *Chemistry of Materials*, **2005**, 17, 4852-4857	9.6	6
48	Variation of vortex structure characteristics of Bi-2223/Ag superconducting tapes with respect to applied magnetic field direction. *Physica C: Superconductivity and Its Applications*, **2005**, 426-431, 396-401	1.3	3
47	Effect of V substitution in Ca4Mn3O10. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, E315-E316	2.8	2
46	Magnetic field dependence of the non-Fermi-liquid state in ferromagnetic CePd1−xNix. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, 207-208	2.8	
45	The CAMCAO infrared camera **2004**, 5492, 1699		2
44	Magnetic properties of UFe5Sn single crystals. *Journal of Magnetism and Magnetic Materials*, **2003**, 260, 473-479	2.8	3
43	Structural, magnetic, and transport studies of La0.8MnO3 films. *Journal of Applied Physics*, **2002**, 92, 4518-4523	2.5	5
42	Structural studies of annealed ultrathin La0.8MnO3 films. *Applied Physics Letters*, **2002**, 80, 2663-2665	3.4	5
41	Material for resistive barriers in Bi-2223/Ag tapes. *Superconductor Science and Technology*, **2001**, 14, 966-972	3.1	7
40	The effect of Th substitution for U in the heavy fermion U2Pt2In. *Journal of Alloys and Compounds*, **2001**, 317-318, 419-422	5.7	1
39	A simple calorimeter for fast adiabatic heat capacity measurements from 15 to 300 K based on closed cycle cryocooler. *Cryogenics*, **2000**, 40, 425-430	1.8	8
38	Evolution of magnetism in the UFexAl12−x intermetallic series. *Physica B: Condensed Matter*, **2000**, 284-288, 1339-1340	2.8	5

37	Charge-density-wave instabilities and quantum transport in the monophosphate tungsten bronzes with m = 5 alternate structure. *European Physical Journal B*, **2000**, 17, 215-226	1.2	6
36	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)). *European Physical Journal B*, **2000**, 14, 73-82	1.2	10
35	Magnetoresistance and Hall effect in unidirectionally twinned YBa2Cu3O7 thin films. *Physical Review B*, **1999**, 59, 1538-1545	3.3	16
34	Anomalous magnetization cycle of UFe4Al8 single crystals: A Mössbauer effect study. *Physical Review B*, **1999**, 60, 4074-4081	3.3	25
33	Localization effects in the charge density wave state of the quasi-two-dimensional conductors (PO2)4(WO3)2m (m=7). *Physica B: Condensed Matter*, **1999**, 259-261, 974-975	2.8	1
32	UHV sample holder for fast heating and cooling cycles. *Vacuum*, **1999**, 52, 23-26	3.7	3
31	Electronic Instabilities and Localization Effects in the Quasi-Two-Dimensional Monophosphate Tungsten Bronzes (PO2)4(WO3)2m and KxP4W8O32. *Journal of Solid State Chemistry*, **1999**, 147, 320-327	2.3	8
30	Model for the broadening of the resistive transition in thin films. *Superconductor Science and Technology*, **1997**, 10, 75-81	3.1	4
29	Twin-boundary effect on the Hall conductivity in high-Tc superconducting thin films. *Physical Review B*, **1997**, 56, 5677-5682	3.3	5
28	Superconductivity in the charge density wave state of the quasi-two-dimensional monophosphate tungsten bronze P4W14O50. *Physica C: Superconductivity and Its Applications*, **1997**, 282-287, 955-956	1.3	5
27	CDW state and superconductivity in the quasi-two-dimensional monophosphate tungsten bronze P4W14O50. *Solid State Communications*, **1997**, 104, 663-668	1.6	12
26	Hall effect in RBa2Cu3O7 (R=Y,Yb) thin films in high magnetic fields. *European Physical Journal D*, **1996**, 46, 1753-1754		1
25	Shubnikov-de haas effect in the quasi-two-dimensional bronze P4W8O32. *European Physical Journal D*, **1996**, 46, 2617-2618		
24	Magnetisation and magnetoresistance of a hexagonal UPtSn single crystal. *European Physical Journal D*, **1996**, 46, 2079-2080		
23	Anomalous magnetisation process in UFe4Al8 probed by magnetisation and magnetoresistance. *Journal of Magnetism and Magnetic Materials*, **1996**, 157-158, 690-691	2.8	3
22	Giant-magnetoresistance anomaly associated with a magnetization process in UFe4Al8. *Physical Review B*, **1996**, 53, R480-R483	3.3	31
21	Modification of the magnetic-field dependence of the Peierls transition by a magnetic chain. *Physical Review B*, **1996**, 54, 15307-15313	3.3	31
20	High field magnetoresistance of UFe4Al8. *Physica B: Condensed Matter*, **1995**, 211, 139-141	2.8	8

19	The Peierls transition under high magnetic field. *Physica B: Condensed Matter*, **1995**, 211, 297-299	2.8	17
18	Structural and magnetic properties of UFe M12 (M = Al, Mo and Si) intermetallic compounds. *Journal of Magnetism and Magnetic Materials*, **1995**, 140-144, 1419-1420	2.8	6
17	Magnetic properties of a UFe4 Al8 single crystal. *Journal of Magnetism and Magnetic Materials*, **1995**, 140-144, 1417-1418	2.8	21
16	High field magnetoresistance of high quality YBaCuO films: Thermally activated flux-flow?. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 3139-3140	1.3	1
15	UFe6Ge6: a new ternary magnetic compound. *Journal of Alloys and Compounds*, **1994**, 204, 59-64	5.7	16
14	Magnetic and transport properties of the alloys (Perylene)2[Au1Ptx(mnt)2]. *Synthetic Metals*, **1993**, 56, 1858-1863	3.6	7
13	The (Per)2M(mnt)2 series: The interaction of 1D conduction electrons with localised spin chains. *Synthetic Metals*, **1993**, 56, 1846-1851	3.6	6
12	The Interplay Between Conduction Electrons and Chains of Localised Spins in The Molecular Metals (Per)2M(mnt)2, M=Au, Pt, Pd, Ni, Cu, Co and Fe. *Molecular Crystals and Liquid Crystals*, **1993**, 234, 171-178		32
11	Response of a metastable superconducting grains suspension to irradiation by 35S decay electrons. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1993**, 334, 645-648	1.2	6
10	Study of metastable superconducting detector response to irradiation using SQUID-readout. *Journal of Low Temperature Physics*, **1993**, 93, 467-472	1.3	
9	A new description of the behavior of metastable superconducting grains suspensions under irradiation. *Journal of Low Temperature Physics*, **1993**, 93, 485-490	1.3	6
8	Low-dimensional molecular metals bis(maleonitriledithiolato)bis(perylene)metal, metal = iron and cobalt. *Inorganic Chemistry*, **1992**, 31, 2598-2604	5.1	51
7	(Perylene)Co(mnt)2(CH2Cl2)0.5: a mixed perylenecobalt complex as molecular and polymeric conductor. *Journal of the American Chemical Society*, **1992**, 114, 1986-1989	16.4	41
6	Magnetic field dependence of the metal-insulator transition in (PER)2Pt(mnt)2 and (PER)2Au(mnt)2. *Solid State Communications*, **1991**, 80, 391-394	1.6	24
5	Sound Velocity in Highly Polarized 3 He. *Europhysics Letters*, **1987**, 3, 489-495	1.6	20
4	Mobility of the3He solid-liquid interface: Experiment and theory. *Journal of Low Temperature Physics*, **1986**, 62, 315-327	1.3	43
3	Polarized 3 He: A New Phase?. *Europhysics Letters*, **1986**, 1, 521-527	1.6	34
2	Polarized 3He : dendritic melting. *Journal De Physique*, **1986**, 47, 723-725		11

1 Strongly Polarized Liquid He3: Experimental Access to the Melting Curve. *Physical Review Letters*, **1984**, 53, 1092-1095 7·4 43