

Claude Berthier

List of Publications by Year in descending order

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117
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6,219
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81900

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119
all docs

119
docs citations

119
times ranked

4571
citing authors

#	ARTICLE	IF	CITATIONS
1	Interacting chiral electrons at the 2D Dirac points: a review. Reports on Progress in Physics, 2021, 84, 036502.	20.1	15
2	Field-dependent paramagnetic relaxation enhancement in solutions of Ni(II): What happens above the NMR proton frequency of 1â€GHz?. Journal of Magnetic Resonance, 2020, 314, 106737.	2.1	4
3	Quasiparticle Scattering off Defects and Possible Bound States in Charge-Ordered YBa2Cu3Oy. Physical Review Letters, 2017, 118, 017001.	7.8	10
4	Nuclear magnetic resonance study of the magnetic-field-induced ordered phase in the NiCl_2Br_2 . Physical Review B, 2017, 95, .	8.2	29
5	Nuclear magnetic resonance in high magnetic field: Application to condensed matter physics. Comptes Rendus Physique, 2017, 18, 331-348.	0.9	19
6	Anomalous spin correlations and excitonic instability of interacting 2D Weyl fermions. Science, 2017, 358, 1403-1406.	12.6	62
7	Magnetic-Order Crossover in Coupled Spin Ladders. Physical Review Letters, 2017, 118, 167206.	7.8	17
8	Nuclear Magnetic Resonance Reveals Disordered Level-Crossing Physics in the Bose-Glass Regime of the Br-Doped $\text{Ni}_2\text{V}_2\text{O}_7$.		

#	ARTICLE	IF	CITATIONS
19	Microscopic Properties of the Pinwheel Kagome Compound $Rb_2Cu_3SnF_{12}$. Physical Review Letters, 2013, 110, 247203.	7.8	7
20	Spatially resolved magnetization in the Bose-Einstein condensed state of $BaCuSi_2O_6$: Evidence for imperfect frustration. Physical Review B, 2013, 87, .	3.2	15
21	Emergence of charge order from the vortex state of a high-temperature superconductor. Nature Communications, 2013, 4, 2113.	12.8	210
22	Field-induced magnetic behavior in quasi-one-dimensional Ising-like antiferromagnet $BaCo_2V_2O_8$: A single-crystal neutron diffraction study. Physical Review B, 2013, 87, .	3.2	30
23	Attractive Tomonaga-Luttinger Liquid in a Quantum Spin Ladder. Physical Review Letters, 2013, 111, 106404.	7.8	50
24	Magnetic-field-enhanced spin freezing on the verge of charge ordering in $YBaCu_3O_{7-x}$. Physical Review B, 2011, 83, .	3.2	22
25	Quantum-Critical Spin Dynamics in Quasi-One-Dimensional Antiferromagnets. Physical Review Letters, 2012, 109, 177206.	7.8	42
26	High-Field Phase Diagram and Spin Structure of Volborthite $Cu_3V_2O_7 \cdot 2H_2O$. Journal of the Physical Society of Japan, 2012, 81, 024703.	1.6	15
27	Statics and dynamics of weakly coupled antiferromagnetic spin- $1/2$ in a magnetic field. Physical Review B, 2011, 83, .	3.2	107
28	Magnetic-field-induced charge-stripe order in the high-temperature superconductor $YBa_2Cu_3O_y$. Nature, 2011, 477, 191-194.	27.8	660
29	Crystal growth and magnetic property of $MCo_2V_2O_8$ ($M=Sr$ and Ba). Journal of Crystal Growth, 2011, 317, 128-131.	1.5	22
30	Magnetic structure of azurite above the magnetization plateau at $1/3$ saturation. Physical Review B, 2011, 84, .	3.2	61
31	Evidence of Charge Disproportionation in $\hat{\nu}$ Type BETS Based Organic Superconductors. Journal of the Physical Society of Japan, 2010, 79, 074711.	1.6	11
32	Luttinger liquid physics in the spin ladder material $CuBr_4(C_5H_{12}N)_2$. Physica Status Solidi (B): Basic Research, 2010, 247, 656-658.	1.5	7
33	NMR and NQR study of the tetrahedral frustrated quantum spin system $Cu_2Te_2O_5Br_2$ in its paramagnetic phase. Physical Review B, 2010, 82, .	3.2	7
34	Novel Ordered Phases in the Orthogonal Dimer Spin System $SrCu_2(BO_3)_2$. Journal of the Physical Society of Japan, 2010, 79, 011005.	1.6	30
35	^{91}Zr Nuclear Magnetic Resonance Spectroscopy of Solid Zirconium Halides at High Magnetic Field. Inorganic Chemistry, 2009, 48, 8709-8717.	4.0	24
36	Phase diagram of $YBa_2Cu_3O_{7-x}$ in the vicinity of $x=0$ as determined by NMR. Physica B: Condensed Matter, 2008, 403, 986-989.	2.7	3

#	ARTICLE	IF	CITATIONS
37	<p>Direct Evidence for the Persistence of a Spin Superlattice Beyond the</p> $1 \times 8 \text{ Magnetization Plateau in } \text{SrCu}_2$		



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55	Charge Segregation, Cluster Spin Glass, and Superconductivity in $\text{La}_{1.94}\text{Sr}_{0.06}\text{CuO}_4$. <i>Physical Review Letters</i> , 1999, 83, 604-607.	7.8	100
56	Zero temperature phase transitions in spin-ladders: Phase diagram and dynamical studies of. <i>European Physical Journal B</i> , 1998, 6, 167-181.	1.5	102
57	NMR study of the CuGeO_3 spin-Peierls system. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 177-181, 669-670.	2.3	1
58	NMR study of the high magnetic field incommensurate phase of the CuGeO_3 spin-Peierls system. <i>Physica B: Condensed Matter</i> , 1998, 246-247, 22-26.	2.7	5
59	Nuclear Magnetic Resonance Study of the $S=1/2$ Heisenberg Ladder $\text{Cu}_2(\text{C}_5\text{H}_{12}\text{N}_2)_2\text{Cl}_4$: Quantum Phase Transition and Critical Dynamics. <i>Physical Review Letters</i> , 1998, 80, 2713-2716.	7.8	99
60	$\text{Cu}(2)$ nuclear resonance evidence for a magnetic phase in aged 60-K superconductors $\text{R}\text{Ba}_2\text{Cu}_3\text{O}_{6+x}$ ($\text{R}=\text{Tm}, \text{Y}$). <i>Physical Review B</i> , 1998, 57, 11792-11798.	3.2	8
61	^{63}Cu and ^{89}Y NMR study of an optimally doped $\text{YBa}_2\text{Cu}_3\text{O}_{6.94}$ single crystal. <i>Physical Review B</i> , 1997, 56, 11294-11298.	3.2	20
62	Identification of Nuclear Relaxation Processes in a Gapped Quantum Magnet: ^1H NMR in the $S=1/2$ Heisenberg Ladder $\text{Cu}_2(\text{C}_5\text{H}_{12}\text{N}_2)_2\text{Cl}_4$. <i>Physical Review Letters</i> , 1997, 79, 925-928.	7.8	62
63	$^{63}, ^{65}\text{Cu}$ NMR investigation of CuGeO_3 single crystals: The uniform and the dimerized spin-Peierls phase. <i>Physical Review B</i> , 1997, 55, 2964-2974.	3.2	28
64	NMR as a probe of incommensurate spin density waves in organic metals. <i>Synthetic Metals</i> , 1997, 86, 1941-1947.	3.9	9
65	Cross-over temperatures and spin-gap in High T_c cuprate superconductors an NMR approach. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 227-230.	1.2	25
66	Spin Gap in $\text{HgBa}_2\text{Ca}_2\text{Cu}_3\text{O}_{8+\delta}$ Single Crystals from ^{63}Cu NMR. <i>Physical Review Letters</i> , 1996, 76, 4238-4241.	7.8	143
67	^{63}Cu and ^{199}Hg NMR in overdoped $\text{HgBa}_2\text{CaCu}_2\text{O}_{6+\delta}$. <i>Physica C: Superconductivity and Its Applications</i> , 1996, 268, 197-204.	1.2	19
68	^{63}Cu NMR in the normal state of $\text{HgBa}_2\text{Ca}_2\text{Cu}_3\text{O}_{8+\delta}$. <i>Journal of Low Temperature Physics</i> , 1996, 105, 371-376.	1.4	4
69	NMR Evidence for a Magnetic Soliton Lattice in the High-Field Phase of CuGeO_3 . <i>Physical Review Letters</i> , 1996, 77, 1861-1864.	7.8	49
70	Confinement in Bechgaard Salts: Anomalous Magnetoresistance and Nuclear Relaxation. <i>Physical Review Letters</i> , 1995, 74, 5272-5275.	7.8	52
71	(TM) $_2\text{X}$ organic superconductors: interplay between 1-D charge localization and higher dimensionality cross-over. <i>Synthetic Metals</i> , 1995, 70, 719-725.	3.9	20
72	Copper spin-spin NMR relaxation in YBCO and a comparison between NMR and inelastic neutron scattering. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 1667-1668.	1.2	8

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73	NMR investigation of HgBa ₂ CaCu ₂ O _{6+δ} . Physica C: Superconductivity and Its Applications, 1994, 235-240, 1669-1670.	1.2	12
74	Spin susceptibility in underdoped YBaCuO single crystals from NMR. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1677-1678.	1.2	6
75	Nuclear-spin-lattice relaxation rate of planar oxygen in YBa ₂ Cu ₃ O _{6.52} and YBa _{1.92} Sr _{0.08} Cu ₃ O ₇ single crystals. Physical Review B, 1993, 48, 13848-13864.	3.2	35
76	Nuclear magnetic relaxation study of poly(ethylene oxide) lithium salt based electrolytes. Journal of Chemical Physics, 1993, 98, 10026-10036.	3.0	90
77	NMR investigation of single-crystal YBa ₂ Cu ₃ O _{6+x} from the underdoped to the overdoped regime. Physical Review B, 1993, 47, 3461-3464.	3.2	61
78	NMR investigation of low energy excitations in high T _c superconductors. Physica Scripta, 1993, T49A, 131-136.	2.5	19
79	¹⁷ O and ⁶³ Cu NMR study of anisotropic magnetic fluctuations in a single crystal of YBa ₂ Cu ₃ O _{6+x} : Comparison with neutron diffraction. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 589-590.	2.3	0
80	NMR investigation of P(EO)(LiClO ₄) _x . Electrochimica Acta, 1992, 37, 1685-1687.	5.2	27
81	¹⁷ O nuclear spin-lattice relaxation in YBa ₂ Cu ₃ O _{6+x} single crystals. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1139-1140.	1.2	7
82	NMR study of spin fluctuations in YBa ₂ Cu ₃ O _{6+x} . Physica C: Superconductivity and Its Applications, 1991, 185-189, 1141-1142.	1.2	12
83	¹⁷ O NMR in YBa ₂ Cu ₃ O _{6.65} . Discrimination between t-J and two-band models. Physica C: Superconductivity and Its Applications, 1990, 166, 301-309.	1.2	27
84	Analysis of the ^{63,65} Cu NMR data as a function of oxygen concentration in YBa ₂ Cu ₃ O _{7-δ} . Physica C: Superconductivity and Its Applications, 1990, 166, 151-157.	1.2	29
85	Drift velocity and temporal phase fluctuations of sliding charge density waves in Rb _{0.3} MoO ₃ . Journal De Physique, 1990, 51, 59-89.	1.8	18
86	NMR evidence for localized spins on Cu(2) sites from Cu NMR in YBa ₂ Cu ₃ O ₇ and YBa ₂ Cu ₃ O _{6.75} single crystals. Physical Review B, 1989, 39, 7332-7335.	3.2	89
87	NMR study of ¹⁷ O in high T _c superconducting oxides. Physica C: Superconductivity and Its Applications, 1989, 162-164, 195-196.	1.2	14
88	NMR study of ^{63,65} Cu in YBa ₂ Cu ₃ O ₇ to 6.65 single crystals. Physica C: Superconductivity and Its Applications, 1989, 162-164, 265-266.	1.2	3
89	¹⁷ O NMR study of YBa ₂ Cu ₃ O _{7-δ} (T _c =92 K). Physica C: Superconductivity and Its Applications, 1989, 159, 689-696.	1.2	66
90	NMR and NQR study of La _{1.85} Sr _{0.15} CuO ₄ and YBa ₂ Cu ₃ O _{6+x} (x=0, 0.25). Physica C: Superconductivity and Its Applications, 1988, 153-155, 741-742.	1.2	3

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91	NMR, conductivity and neutron scattering investigation of ionic dynamics in the anhydrous polymer	2.7	108
92	NMR, DSC and conductivity study of the polymer solid electrolytes P(EO) (LiCp+1F2p+3SO3)x. Solid State Ionics, 1988, 28-30, 1018-1022.	2.7	41
93	Temperature dependence of La spin-lattice relaxation time in the high-Tc superconductor La _{1.85} Sr _{0.15} CuO ₄ . Physical Review B, 1987, 36, 5702-5704.	3.2	8
94	Measurement of the sliding charge-density-wave phase velocity in Rb _{0.3} MoO ₃ . Physical Review Letters, 1987, 59, 2348-2351.	7.8	43
95	Sliding of Charge Density Waves in a Static Electric Field. Physica Scripta, 1987, T19B, 578-584.	2.5	7
96	NMR, DSC, and conductivity study of a poly(ethylene oxide) complex electrolyte : PEO(LiClO ₄) _x . Solid State Ionics, 1986, 18-19, 295-299.	2.7	141
97	NMR evidence of the Frohlich mode in Rb _{0.30} MoO ₃ . Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1986, 143, 120-122.	0.9	1
98	NMR Evidence of the Fröhlich Mode in Rb _{0.30} MoO ₃ . Physical Review Letters, 1986, 56, 1854-1857.	7.8	59
99	NMR study of the charge-density wave in Rb _{0.30} MoO ₃ single crystal. Physical Review Letters, 1985, 55, 253-256.	7.8	59
100	Thermal analysis and NMR study of a poly(ethylene oxide) complex electrolyte : PEO(LiCF ₃ SO ₃) _x . Journal De Physique, 1984, 45, 739-744.	1.8	101
101	The Na-TiS ₂ system: A critical discussion of the phase boundaries, structural and NMR studies. Journal of Physics and Chemistry of Solids, 1984, 45, 105-112.	4.0	37
102	Microscopic investigation of ionic conductivity in alkali metal salts-poly(ethylene oxide) adducts. Solid State Ionics, 1983, 11, 91-95.	2.7	1,011
103	Differential scanning calorimetry of sodium iodide poly(ethylene oxide) complexes. Solid State Ionics, 1983, 9-10, 1125-1127.	2.7	10
104	NMR evidence for lithium ordering in Li _{0.29} ZrSe ₂ . Solid State Ionics, 1983, 9-10, 467-469.	2.7	5
105	NMR and magnetic susceptibility investigation of high temperature phase transitions in RbC ₈ . Synthetic Metals, 1983, 8, 7-13.	3.9	12
106	Semiconductor-metal transition upon intercalation in Li _x ZrSe ₂ . Solid State Ionics, 1981, 5, 379-382.	2.7	39
107	NMR studies of lamellar intercalation compounds. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1980, 99, 107-116.	0.9	10
108	NMR study on a 2H-NbSe ₂ single crystal: A microscopic investigation of the charge density waves state. Journal of Physics C: Solid State Physics, 1978, 11, 797-814.	1.5	71

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109	Quadrupolar nuclear resonance investigation of the screening charge around 3d impurities in aluminium. Journal of Physics F: Metal Physics, 1977, 7, 515-520.	1.6	19
110	EPR and NRM Investigation on TMTTF-TCNQ. Molecular Crystals and Liquid Crystals, 1976, 32, 261-265.	0.8	15
111	Evidence for a connection between charge density waves and the pressure enhancement of superconductivity in 2H-NbSe ₂ . Solid State Communications, 1976, 18, 1393-1395.	1.9	132
112	Charge density waves in layer structures: A NMR study on a 2Hf _{1-x} NbSe ₂ single crystal. Solid State Communications, 1976, 19, 131-135.	1.9	45
113	Effect of strains on the indirect nuclear spin-spin coupling in platinum. Solid State Communications, 1975, 17, 147-151.	1.9	6
114	Quadripolar nuclear resonance investigation of conduction electrons charge density around a scandium impurity in an aluminium matrix. Journal of Physics F: Metal Physics, 1973, 3, 1268-1273.	1.6	16
115	Evidence of screening charge depression in the vicinity of chromium and manganese impurities in aluminium at low temperature. Journal of Physics F: Metal Physics, 1973, 3, 1169-1177.	1.6	19
116	Solid Effect between Pure-Quadrupolar Nuclear Transitions in Dilute Alloys and Its Application to AlTi. Physical Review B, 1973, 7, 1854-1863.	3.2	15
117	Quadrupolar interaction around Ga in aluminium. Solid State Communications, 1972, 10, 257-260.	1.9	12