

Philippe Mendels

List of Publications by Year in descending order

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2724
citing authors

#	ARTICLE	IF	CITATIONS
1	Specific Heat of the Kagome Antiferromagnet Herbertsmithite in High Magnetic Fields. Physical Review X, 2022, 12, .	8.9	2
2	Classical Spin Liquid State in the Heisenberg Kagome Antiferromagnet S_5 . Physical Review Letters, 2021, 127, 157202.	7.8	14
3	Gapless ground state in the archetypal quantum kagome antiferromagnet $ZnCu_3(OH)_6Cl_2$. Nature Physics, 2020, 16, 469-474.	16.7	92
4	Tuning of a Kagome Magnet: Insulating Ground State in Ga_5 Substituted $Cu_4(OH)_6Cl_2$. Physica Status Solidi (B): Basic Research, 2019, 256, 1800663.	1.5	7
5	Local study of the insulating quantum kagome antiferromagnets YCu_3O and YCu_3OCl . Physical Review Materials, 2019, 3, .	3.2	35
6	Symmetry Reduction in the Quantum Kagome Antiferromagnet Herbertsmithite. Physical Review Letters, 2017, 118, 017202.	7.8	42
7	Field-Induced Instability of a Gapless Spin Liquid with a Spinon Fermi Surface. Physical Review Letters, 2017, 119, 137205.	7.8	18
8	Evidence for a spinon Fermi surface in the triangular quantum spin liquid O_9 . Physical Review B, 2017, 95, .	7.8	32
9	Nature of the Spin Liquid Ground State in a Breathing Kagome Compound Studied by NMR and Series Expansion. Physical Review Letters, 2017, 118, 237203.	7.8	32
10	Gapless quantum spin liquid ground state in the spin-1 antiferromagnet $6HBa_3O_9$. Physical Review B, 2016, 93, .	3.2	39
11	Spin Liquid State in the 3D Frustrated Antiferromagnet Ba_3ZnIr . Physical Review Letters, 2016, 116, 107203.	7.8	58
12	Quantum kagome frustrated antiferromagnets: One route to quantum spin liquids. Comptes Rendus Physique, 2016, 17, 455-470.	0.9	90
13	Frozen State and Spin Liquid Physics in Na_4 . An. Physical Review Letters, 2015, 115, 047201.	7.8	37
14	Quenched crystal-field disorder and magnetic liquid ground states in Tb_2 . Physical Review B, 2015, 91, .	3.2	11
15	Spin dynamics and disorder effects in the Heisenberg spin-liquid phase of kapellasite. Physical Review B, 2014, 90, .	3.2	46
16	^{51}V NMR study of a quantum spin liquid candidate: the $S=1/2$ vanadium oxyfluoride kagome antiferromagnet. Journal of Physics: Conference Series, 2014, 551, 012004.	0.4	7
17	Gapless Spin Liquid Ground State in the Vanadium Oxyfluoride Kagome Antiferromagnet NH_4 . Physical Review Letters, 2013, 111, 087201.	7.8	113

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19	Dzyaloshinsky-Moriya interaction in vesignieite: A route to freezing in a quantum kagome antiferromagnet. Physical Review B, 2013, 88, .	3.2	57
20	Exchange energies of kapellasite from high-temperature series analysis of the kagome lattice $J ₁ ² ⁴$ model. Physical Review B, 2013, 87, .	3.2	41
21	Magnetic behavior of Ba ₃ Cu ₃ Sc ₄ O ₁₂ . Journal of Physics Condensed Matter, 2012, 24, 236001.	1.8	15
22	Singlet Ground State of the Quantum Antiferromagnet $\text{Ba}_{3-x}\text{Cu}_x\text{Sc}_4\text{O}_{12}$ Physical Review Letters, 2012, 109, 117203.	1.8	15
23	Mn local moments prevent superconductivity in iron pnictides Ba(Fe _{1-x} Mn _x) ₂ As ₂	1.0	14
24	Extension of the zinc paratacamite phase diagram: Probing the effect of spin vacancies in anS=12kagome antiferromagnet. Physical Review B, 2012, 85, .	3.2	17
25	Kapellasite: A Kagome Quantum Spin Liquid with Competing Interactions. Physical Review Letters, 2012, 109, 037208.	7.8	201
26	Spin dynamics in the kagome compound vesignieite, Cu ₂ Si ₂ O ₇	1.0	14

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37	Spin dynamics in Heisenberg triangular antiferromagnets: A study of LiCrO_2 . Physical Review B, 2009, 79, .	3.2	11
38	Impurity-Induced Magnetic Order in Low-Dimensional Spin-Gapped Materials. Physical Review Letters, 2009, 103, 047201.	7.8	54
39	Frustrated magnetism in the quantum Kagome Herbertsmithite $\text{ZnCu}_3(\text{OH})_6\text{Cl}_2$ antiferromagnet. Journal of Physics: Conference Series, 2009, 145, 012004.	0.4	10
40	^{29}Si NMR and $^{69,71}\text{Ga}$ NMR/NQR study of the kagomé compound $\text{Nd}_3\text{Ga}_5\text{SiO}_{14}$. Journal of Physics: Conference Series, 2009, 145, 012006.	0.4	6
41	Electron spin resonance investigation of the spin-1/2 kagomé antiferromagnet $\text{ZnCu}_3(\text{OH})_6\text{Cl}_2$. Journal of Physics: Conference Series, 2009, 145, 012014.	0.4	1
42	Magnetic Susceptibility and Spin Dynamics of the Quantum Kagome Antiferromagnet $\text{ZnCu}_3(\text{OH})_6\text{Cl}_2$. Journal of Physics: Conference Series, 2009, 145, 012014.	7.8	230
43	Low temperature magnetization of the kagomé compound $\text{ZnCu}_3(\text{OH})_6\text{Cl}_2$. Physical Review Letters, 2007, 98, 077204.	7.8	183
44	Quantum Magnetism in the Paratacamite Family: Towards an Ideal Kagomé Lattice. Physical Review Letters, 2007, 98, 077204.	7.8	401
46	Dynamics in pure and substituted volborthite kagome-like compounds. Physica B: Condensed Matter, 2006, 374-375, 134-137.	2.7	9
47	Low-T dynamics in the highly frustrated kagomé bilayers: A phenomenological function for a spin liquid state?. Physica B: Condensed Matter, 2006, 374-375, 138-141.	2.7	1
48	$^{1/4}\text{SR}$ study of frustrated Delafossites $\text{YCuO}_2+\hat{\Gamma}$. Physica B: Condensed Matter, 2006, 374-375, 152-155.	2.7	3
49	Series of bulk magnetic-phase transitions in $\text{A}^2\text{B}_2\text{O}_7$: A study. Physica B: Condensed Matter, 2006, 374-375, 278-281.	2.7	1
50	Evidence of a single nonmagnetic Co^{3+} state in the Na_1CoO_2 cobaltate. Physical Review B, 2005, 72, .	3.2	64
51	Cascade of Bulk Magnetic Phase Transitions in Na_xCoO_2 as Studied by Muon Spin Rotation. Physical Review Letters, 2005, 94, 136403.	7.8	75
52	Ground State of the Kagomé-Like $S=1/2$ Antiferromagnet Volborthite $\text{Cu}_3\text{V}_2\text{O}_7(\text{OH})_2 \cdot 2\text{H}_2\text{O}$. Physical Review Letters, 2005, 95, 087203.	7.8	83
53	A local study of dynamic and static magnetism in the Kagomé bilayer compound $\text{Ba}_2\text{Sn}_2\text{ZnCr}_6\text{Ga}_3\text{O}_{22}$. Journal of Physics Condensed Matter, 2004, 16, S817-S822.	1.8	8
54	Oxygen doped $S=1/2$ Cu delafossites: a muon spin rotation/relaxation study. Journal of Physics Condensed Matter, 2004, 16, S799-S804.	1.8	10

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55	Dilution in volborthite $S=1/2$ frustrated magnet: a μ SR and NMR study. Journal of Physics Condensed Matter, 2004, 16, S829-S834.	1.8	18
56	μ SR Study of the Quantum Dynamics in the Frustrated $S=3/2$ Kagomé Bilayers. Physical Review Letters, 2004, 93, 187201.	7.8	42
57	Publisher's Note: Antiferromagnetic properties of a water-vapor-inserted $\text{YBa}_2\text{Cu}_3\text{O}_{6.5}$ compound studied by NMR, NQR, and μ SR [Phys. Rev. B70, 054506 (2004)]. Physical Review B, 2004, 70, .	3.2	1
58	Magnetic properties of frustrated two-dimensional $S=1/2$ antiferromagnets on a square lattice. Journal of Physics Condensed Matter, 2004, 16, S849-S856.	1.8	13
59	Bobroff et al. Reply. Physical Review Letters, 2003, 91, .	7.8	0
60	Bobroff et al. Reply. Physical Review Letters, 2002, 88, .	7.8	3
61	Susceptibility and dilution effects of the kagomé bilayer geometrically frustrated network: A Ga NMR study of $\text{SrCr}_9\text{Ga}_{12}\text{As}_{19}\text{O}_{19}$. Physical Review B, 2002, 65, .	3.2	74
62	Absence of Static Phase Separation in the High T_c Cuprate $\text{YBa}_2\text{Cu}_3\text{O}_{6+y}$. Physical Review Letters, 2002, 89, 157002.	7.8	76
63	Dynamics at T^* in half-integer isotropic high-spin molecules. Physical Review B, 2002, 65, .	3.2	30
64	Planar ^{17}O NMR study of $\text{Pr}_y\text{Y}_{1-y}\text{Ba}_2\text{Cu}_3\text{O}_{6+x}$. Physical Review B, 2002, 66, .	3.2	3
65	Persistence of Li Induced Kondo Moments in the Superconducting State of Cuprates. Physical Review Letters, 2001, 86, 4116-4119.	7.8	85
66	Ga-NMR local susceptibility of the Kagome-based magnet $\text{SrCr}_9\text{Ga}_{12}\text{As}_{19}\text{O}_{19}$: A high-temperature study. Canadian Journal of Physics, 2001, 79, 1393-1399.	1.1	2
67	Quantum fluctuations of the magnetization in high spin molecules μ SR study. Physica B: Condensed Matter, 2000, 289-290, 106-109.	2.7	14
68	Magnetic field μ SR time-scaling relations and exotic spin correlations: a μ SR study of spin glasses. Physica B: Condensed Matter, 2000, 289-290, 202-204.	2.7	5
69	Antiferromagnetism in water doped $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ for $x \approx 0.5$. Physica B: Condensed Matter, 2000, 289-290, 291-294.	2.7	4
70	Superconducting clusters and phase separation in $\text{Pr}_{1-x}\text{Ba}_2\text{Cu}_3\text{O}_7$: A ^{63}Cu nuclear quadrupole resonance and zero-field NMR study. Physical Review B, 2000, 61, 4334-4345.	3.2	12
71	Ga NMR Study of the Local Susceptibility in Kagomé-Based $\text{SrCr}_8\text{Ga}_4\text{O}_{19}$: Pseudogap and Paramagnetic Defects. Physical Review Letters, 2000, 85, 3496-3499.	7.8	51
72	Magnetic Dilution in the Geometrically Frustrated $\text{SrCr}_9\text{Ga}_{12}\text{As}_{19}\text{O}_{19}$ and the Role of Local Dynamics: A Muon Spin Relaxation Study. Physical Review Letters, 2000, 84, 3450-3453.	7.8	56

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73	Dynamics of the Local Moment Induced by Nonmagnetic Defects in Cuprates. <i>Physical Review Letters</i> , 2000, 85, 1108-1111.	7.8	40
74	Normal-state magnetic properties of Ni and Zn substituted in $YBa_2Cu_3O_{6+x}$: Hole-doping dependence. <i>Europhysics Letters</i> , 1999, 46, 678-684.	2.0	90
75	Spinless Impurities in High-Tc Cuprates: Kondo-Like Behavior. <i>Physical Review Letters</i> , 1999, 83, 4381-4384.	7.8	138
76	Antiferromagnetism in hydrated 123 compounds. <i>JETP Letters</i> , 1999, 69, 792-797.	1.4	3
77	Using substitutions and ^{17}O nmr to probe the susceptibility $\chi(q)$ in underdoped $YBa_2Cu_3O_{6+y}$ and $HgBa_2CuO_4$ compounds. <i>Journal of Physics and Chemistry of Solids</i> , 1998, 59, 2160-2162.	4.0	2
78	Evidence for Charge Instability in the CuO_3 Chains of $PrBa_2Cu_3O_7$ from $^{63,65}Cu$ NMR. <i>Physical Review Letters</i> , 1998, 80, 2405-2408.	7.8	44
79	Bobroff et al. Reply. <i>Physical Review Letters</i> , 1998, 80, 3663-3663.	7.8	6
80	$^{69,71}Ga$ NMR in the kagomé lattice compound $SrCr_9-xGa_3+xO_{19}$. <i>Physical Review B</i> , 1998, 57, 10745-10749.	3.2	22
81	$Cu(2)$ nuclear resonance evidence for a magnetic phase in aged 60-K superconductors $RBa_2Cu_3O_{6+x}$ ($R=Th, Y$). <i>Physical Review B</i> , 1998, 57, 11792-11798.	3.2	8
82	^{17}O NMR Evidence for a Pseudogap in the Monolayer $HgBa_2CuO_4$. <i>Physical Review Letters</i> , 1997, 78, 3757-3760.	7.8	63
83	NMR Study of ^{17}O Transverse Relaxation in $YBa_2Cu_3(16O_{1-x}^{17}O_x)_7$. <i>Physical Review Letters</i> , 1997, 78, 3547-3550.	7.8	21
84	Comment on ^{27}Al NMR Local Probe of Local Moments Induced by an Al impurity in High-Tc Cuprate $La_{1.85}Sr_{0.15}CuO_4$. <i>Physical Review Letters</i> , 1997, 78, 2494-2494.	7.8	17
85	Using Ni Substitution and ^{17}O NMR to Probe the Susceptibility $\chi(q)$ in Cuprates. <i>Physical Review Letters</i> , 1997, 79, 2117-2120.	7.8	71
86	NMR studies of the original magnetic properties of the cuprates: influence of impurities and defects. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 226.	1.2	0
87	^{17}O NMR comparison of zinc and nickel substituted $YBa_2Cu_3O_{6.6}$. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 1389-1390.	1.2	8
88	Probing the Spin-Spin Dynamical Autocorrelation Function in a Spin Glass above T_g via Muon Spin Relaxation. <i>Physical Review Letters</i> , 1996, 77, 1386-1389.	7.8	93
89	Unusual static local field distribution in the spin-frozen state of icosahedral $Al-Mn-Si$. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 199, 107-112.	2.1	9
90	Ginzburg-Landau parameter in $YBa_2Cu_3O_{6.95}$ below the irreversibility temperature as measured by ^{17}O NMR in high magnetic fields. <i>Physical Review B</i> , 1995, 52, 10569-10580.	3.2	57

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91	New muon-spin-rotation measurement of the temperature dependence of the magnetic penetration depth in YBa ₂ Cu ₃ O _{6.95} . Physical Review Letters, 1994, 72, 744-747.	7.8	148
92	Determination of $\hat{\Gamma}$ and $\hat{\rho}$ in a mosaic of single crystal YBa ₂ Cu ₃ O _{6.95} . Hyperfine Interactions, 1994, 86, 481-487.	0.5	4
93	Temperature dependence of the magnetic penetration depth in YBa ₂ Cu ₃ O _{6.95} . Hyperfine Interactions, 1994, 86, 537-542.	0.5	5
94	RF- $\hat{\Gamma}$ /4SR study of muonium charge states and dynamics in Si. Hyperfine Interactions, 1994, 86, 673-679.	0.5	6
95	ZF and low-LF $\hat{\Gamma}$ /4SR in spin-glassy icosahedral Al-Mn-Si quasicrystal. Hyperfine Interactions, 1994, 85, 299-304.	0.5	2
96	Evidence for Endohedral Muonium in K _x C ₆₀ and Consequences for Electronic Structure. Physical Review Letters, 1993, 70, 1353-1353.	7.8	0
97	Evidence for endohedral muonium in K _x C ₆₀ and consequences for electronic structure. Physical Review Letters, 1992, 69, 2005-2008.	7.8	130
98	Muon $\hat{\epsilon}$ nuclear quadrupolar level crossing resonance in solid nitrogen. Evidence for N ₂ $\hat{\Gamma}$ /4+ ion formation. Chemical Physics Letters, 1992, 200, 546-551.	2.6	26
99	3D antiferromagnetic ordering in cuprates: A Kosterlitz Thouless transition. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1191-1192.	1.2	6
100	Magnetic properties of Zn and Ga substituted 123 compounds. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1193-1194.	1.2	5
101	89Y NMR Study of Antiferromagnetic YBa ₂ Cu ₃ O ₆ . Journal of the Physical Society of Japan, 1990, 59, 1139-1142.	1.6	16
102	Antiferromagnetic phase transition of YBa ₂ Cu ₃ O _{6+x} studied by 89Y NMR. Journal of Magnetism and Magnetic Materials, 1990, 90-91, 657-658.	2.3	6
103	Antiferromagnetism in YBa ₂ Cu ₃ O _{6+x} : Ga and Zn substitutions I. 89Y NMR determination of the N $\hat{\Gamma}$ el temperature. Physica C: Superconductivity and Its Applications, 1990, 171, 419-428.	1.2	53
104	Antiferromagnetism in YBa ₂ Cu ₃ O _{6+x} : Ga and Zn substitutions II. zero field NMR of the Cu magnetic sites. Physica C: Superconductivity and Its Applications, 1990, 171, 429-437.	1.2	47
105	89Y NMR studies of the electronic and magnetic properties of the 123 compounds. Journal of the Less Common Metals, 1990, 164-165, 1022-1038.	0.8	26
106	Reduction of the Remanent Magnetization in Spin Glasses: Comparison of Heisenberg and Ising Cases. Europhysics Letters, 1987, 3, 113-118.	2.0	13
107	Low-Temperature Excitations in Spin Glasses: Reduction of the Remanent Magnetization. Europhysics Letters, 1986, 1, 595-602.	2.0	11