

Philippe Mendels

List of Publications by Year in descending order

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107
docs citations

107
times ranked

2724
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Magnetism in the Paratacamite Family: Towards an Ideal Kagom� Lattice. Physical Review Letters, 2007, 98, 077204. $\langle \text{O} \rangle_{17}$	7.8	401
2	Magnetic Susceptibility and Spin Dynamics of the Quantum Kagome Antiferromagnet ZnCu_3 stret	7.8	230
3	Kapellasite: A Kagome Quantum Spin Liquid with Competing Interactions. Physical Review Letters, 2012, 109, 037208.	7.8	201
4	Dzyaloshinsky-Moriya Anisotropy in the Spin-1/2 Kagome Compound $\langle \text{ZnCu}_3 \rangle_{\text{stretchy="false"}}$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50'612 Td (stretchy="fa	7.8	183
5	Physical Review Letters, 2008, 101, 026405. Quantum Kagome Antiferromagnet $\text{ZnCu}_3(\text{OH})_6\text{Cl}_2$. Journal of the Physical Society of Japan, 2010, 79, 011001.	1.6	167
6	New muon-spin-rotation measurement of the temperature dependence of the magnetic penetration depth in $\text{YBa}_2\text{Cu}_3\text{O}_{6.95}$. Physical Review Letters, 1994, 72, 744-747.	7.8	148
7	Spinless Impurities in High-Tc Cuprates: Kondo-Like Behavior. Physical Review Letters, 1999, 83, 4381-4384.	7.8	138
8	Evidence for endohedral muonium in KxC_6O and consequences for electronic structure. Physical Review Letters, 1992, 69, 2005-2008. S	7.8	130
9	Gapless spin liquid ground state in the S Vanadium Oxyl fluoride Kagome Antiferromagnet S Low temperature magnetization of the S	7.8	113
10	S bevelled="false"> S kagome antiferromagnet S		
11	Probing the Spin-Spin Dynamical Autocorrelation Function in a Spin Glass above T_g via Muon Spin Relaxation. Physical Review Letters, 1996, 77, 1386-1389.	7.8	93
12	Interplay of thermal and quantum spin fluctuations in the kagome lattice compound herbertsmithite. Physical Review B, 2010, 82, .	3.2	93
13	Gapless ground state in the archetypal quantum kagome antiferromagnet $\text{ZnCu}_3(\text{OH})_6\text{Cl}_2$. Nature Physics, 2020, 16, 469-474.	16.7	92
14	Normal-state magnetic properties of Ni and Zn substituted in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$: Hole-doping dependence. Europhysics Letters, 1999, 46, 678-684.	2.0	90
15	Quantum kagome frustrated antiferromagnets: One route to quantum spin liquids. Comptes Rendus Physique, 2016, 17, 455-470.	0.9	90
16	Persistence of Li Induced Kondo Moments in the Superconducting State of Cuprates. Physical Review Letters, 2001, 86, 4116-4119.	7.8	85
17	Ground State of the Kagom�-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
18	Absence of Static Phase Separation in the High-Tc Cuprate $\text{YBa}_2\text{Cu}_3\text{O}_{6+y}$. Physical Review Letters, 2002, 89, 157002.	7.8	76

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19	Cascade of Bulk Magnetic Phase Transitions in Na_xCoO_2 as Studied by Muon Spin Rotation. <i>Physical Review Letters</i> , 2005, 94, 136403.	7.8	75
20	Susceptibility and dilution effects of the kagomé bilayer geometrically frustrated network: A Ga NMR study of $\text{SrCr}_9\text{pGa}_{12}\text{a}^{\sim}9\text{pO}_{19}$. <i>Physical Review B</i> , 2002, 65, .	3.2	74
21	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
22	Evidence of a single nonmagnetic Co^{3+} state in the Na_1CoO_2 cobaltate. <i>Physical Review B</i> , 2005, 72, .	3.2	64
23	^{17}O NMR Evidence for a Pseudogap in the Monolayer $\text{HgBa}_2\text{CuO}_4 + \delta$. <i>Physical Review Letters</i> , 1997, 78, 3757-3760.	7.8	63
24	Field-Induced Freezing of a Quantum Spin Liquid on the Kagome Lattice. <i>Physical Review Letters</i> , 2011, 107, 237201.	7.8	60
25	Origin of the Spin-Orbital Liquid State in a Nearly Kagome Iridate $\text{Yb}_2\text{Ir}_2\text{O}_7$. <i>Physical Review Letters</i> , 2016, 116, 077201.	7.8	58
26	Ginzburg-Landau parameter in $\text{YBa}_2\text{Cu}_3\text{O}_{6.95}$ 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
27	Dzyaloshinsky-Moriya interaction in vesignieite: A route to freezing in a quantum kagome antiferromagnet. <i>Physical Review B</i> , 2013, 88, .	3.2	57
28	Magnetic Dilution in the Geometrically Frustrated $\text{SrCr}_9\text{pGa}_{12}\text{a}^{\sim}9\text{pO}_{19}$ and the Role of Local Dynamics: A Muon Spin Relaxation Study. <i>Physical Review Letters</i> , 2000, 84, 3450-3453.	7.8	56
29	Spin-Orbital Ground State in the Frustrated Kagome Antiferromagnet $\text{Yb}_2\text{Ir}_2\text{O}_7$. <i>Physical Review Letters</i> , 2016, 116, 077201.	3.2	56
30	Impurity-Induced Magnetic Order in Low-Dimensional Spin-Gapped Materials. <i>Physical Review Letters</i> , 2009, 103, 047201.	7.8	54
31	Antiferromagnetism in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$: Ga and Zn substitutions I. ^{89}Y NMR determination of the Néel temperature. <i>Physica C: Superconductivity and Its Applications</i> , 1990, 171, 419-428.	1.2	53
32	Spin Liquid State in the 3D Frustrated Antiferromagnet $\text{Yb}_2\text{Ir}_2\text{O}_7$. <i>Physical Review Letters</i> , 2016, 116, 077201.	7.8	53
33	Ga NMR Study of the Local Susceptibility in Kagomé-Based $\text{SrCr}_8\text{Ga}_4\text{O}_{19}$: Pseudogap and Paramagnetic Defects. <i>Physical Review Letters</i> , 2000, 85, 3496-3499.	7.8	51
34	Antiferromagnetism in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$: Ga and Zn substitutions II. zero field NMR of the Cu magnetic sites. <i>Physica C: Superconductivity and Its Applications</i> , 1990, 171, 429-437.	1.2	47
35	Mn local moments prevent superconductivity in iron pnictides $\text{Ba}(\text{Fe}_{1-x}\text{Mn}_x)_2\text{As}_2$. <i>Physical Review Letters</i> , 2011, 107, 077201.	1.1	46
36	Spin dynamics and disorder effects in the Heisenberg spin-liquid phase of kagellite. <i>Physical Review B</i> , 2014, 90, .	3.2	46

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37	Evidence for Charge Instability in the CuO ₃ Chains of PrBa ₂ Cu ₃ O ₇ from ^{63,65} Cu NMR. Physical Review Letters, 1998, 80, 2405-2408.	7.8	44
38	Ground state and intrinsic susceptibility of the kagome antiferromagnet vesignieite as seen by μ SR NMR. Physical Review B, 2011, 84, 014411.	3.2	44
39	Singlet Ground State of the Quantum Antiferromagnet $\text{Cu}_3\text{Sb}_2\text{O}_{12}$. Physical Review Letters, 2011, 106, 057202.	4.1	44
40	Spin dynamics in the kagome compound vesignieite, $\text{Cu}_3\text{Sb}_2\text{O}_{12}$. Physical Review B, 2011, 84, 014411.	3.2	44

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55	Local study of the insulating quantum kagome antiferromagnets $\langle \mathbf{S}_i \cdot \mathbf{S}_j \rangle$ in YCu_3O_7 and $\text{YBa}_2\text{Cu}_3\text{O}_7$. Physical Review Materials, 2019, 3, .	7.8	21
56	NMR Study of ^{17}T Transverse Relaxation in $\text{YBa}_2\text{Cu}_3(16\text{O}1\hat{\sim}c17\text{O}c)7$. Physical Review Letters, 1997, 78, 3547-3550.	7.8	21
57	Dilution in volborthite $S=1/2$ frustrated magnet: a $\hat{\text{A}}\text{SR}$ and NMR study. Journal of Physics Condensed Matter, 2004, 16, S829-S834.	1.8	18
58	Ground State of the Easy-Axis Rare-Earth Kagome Langasite $\text{Pr}_3\text{Ga}_5\text{SiO}_{14}$. Physical Review Letters, 2010, 104, 057202.	7.8	18
59	Field-Induced Instability of a Gapless Spin Liquid with a Spinon Fermi Surface. Physical Review Letters, 2017, 119, 137205.	7.8	18
60	Comment on $\hat{\text{A}}\text{SR}$ NMR Local Probe of Local Moments Induced by an Al impurity in High-Tc Cuprate $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$. Physical Review Letters, 1997, 78, 2494-2494.	7.8	17
61	Extension of the zinc paratacamite phase diagram: Probing the effect of spin vacancies in an $S=12$ kagome antiferromagnet. Physical Review B, 2012, 85, .	3.2	17
62	^{89}Y NMR Study of Antiferromagnetic $\text{YBa}_2\text{Cu}_3\text{O}_6$. Journal of the Physical Society of Japan, 1990, 59, 1139-1142.	1.6	16
63	Magnetic behavior of $\text{Ba}_3\text{Cu}_3\text{Sc}_4\text{O}_{12}$. Journal of Physics Condensed Matter, 2012, 24, 236001.	1.8	15
64	Quantum fluctuations of the magnetization in high spin molecules $\hat{\text{A}}\text{SR}$ study. Physica B: Condensed Matter, 2000, 289-290, 106-109.	2.7	14
65	Classical Spin Liquid State in the Heisenberg Kagome Antiferromagnet $\text{Li}_9\text{Mg}_3\text{Sb}_3\text{O}_{14}$. Physical Review Letters, 2021, 127, 157202.	7.8	14
66	Reduction of the Remanent Magnetization in Spin Glasses: Comparison of Heisenberg and Ising Cases. Europhysics Letters, 1987, 3, 113-118.	2.0	13
67	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
68	Superconducting clusters and phase separation in $\text{Pr}_{1+x}\text{Ba}_{2-x}\text{Cu}_3\text{O}_7$ $\hat{\text{A}}\text{SR}$ study. Physical Review B, 2000, 61, 4334-4345.	3.2	12
69	Low-Temperature Excitations in Spin Glasses: Reduction of the Remanent Magnetization. Europhysics Letters, 1986, 1, 595-602.	2.0	11
70	Spin dynamics in Heisenberg triangular antiferromagnets: $\hat{\text{A}}\text{SR}$ study of LiCrO_2 . Physical Review Letters, 2011, 107, 157202.	3.2	11
71	Quenched Disorder and magnetic liquid ground states in LiCrO_2 . Physical Review B, 2015, 91, .	3.2	11
72	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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73	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
74	Unusual static local field distribution in the spin-frozen state of icosahedral $\text{Al}_i\text{-Mn}_i\text{-Si}$. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 199, 107-112.	2.1	9
75	Dynamics in pure and substituted volborthite kagome-like compounds. Physica B: Condensed Matter, 2006, 374-375, 134-137.	2.7	9
76	^{17}O NMR comparison of zinc and nickel substituted $\text{YBa}_2\text{Cu}_3\text{O}_{6.6}$. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1389-1390.	1.2	8
77	$\text{Cu}(2)$ nuclear resonance evidence for a magnetic phase in aged 60-K superconductors $\text{RBa}_2\text{Cu}_3\text{O}_{6+x}$ ($\text{R}=\text{Tm}, \text{Y}$). Physical Review B, 1998, 57, 11792-11798.	3.2	8
78	A local study of dynamic and static magnetism in the Kagomé bilayer compound $\text{Ba}_2\text{Sn}_2\text{ZnCr}_6.8\text{Ga}_3.2\text{O}_{22}$. Journal of Physics Condensed Matter, 2004, 16, S817-S822.	1.8	8
79	^{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
80	Tuning of a Kagome Magnet: Insulating Ground State in Ga -substituted $\text{Cu}_4(\text{OH})_6\text{Cl}_2$. Physica Status Solidi (B): Basic Research, 2019, 256, 1800663.	1.5	7
81	Antiferromagnetic phase transition of $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ studied by ^{89}Y NMR. Journal of Magnetism and Magnetic Materials, 1990, 90-91, 657-658.	2.3	6
82	3D antiferromagnetic ordering in cuprates: A Kosterlitz Thouless transition. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1191-1192.	1.2	6
83	^{19}F NMR study of muonium charge states and dynamics in Si. Hyperfine Interactions, 1994, 86, 673-679.	0.5	6
84	Bobroff et al. Reply. Physical Review Letters, 1998, 80, 3663-3663.	7.8	6
85	^{29}Si NMR and $^{69,71}\text{Ga}$ NMR/NQR study of the kagomé compound $\text{Nd}_3\text{Ga}_5\text{Si}_{14}$. Journal of Physics: Conference Series, 2009, 145, 012006.	0.4	6
86	Magnetic properties of Zn and Ga substituted 123 compounds. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1193-1194.	1.2	5
87	Temperature dependence of the magnetic penetration depth in $\text{YBa}_2\text{Cu}_3\text{O}_{6.95}$. Hyperfine Interactions, 1994, 86, 537-542.	0.5	5
88	Magnetic field "time-scaling relations and exotic spin correlations: a ^{51}V NMR study of spin glasses. Physica B: Condensed Matter, 2000, 289-290, 202-204.	2.7	5
89	Dynamics and distribution of doped holes in the CuO of slightly doped $\text{YBa}_2\text{Cu}_3\text{O}_{6.9}$. Physical Review B, 2009, 79, ...	3.2	5
90	Determination of ^{17}O and ^{63}Cu in a mosaic of single crystal $\text{YBa}_2\text{Cu}_3\text{O}_{6.95}$. Hyperfine Interactions, 1994, 86, 481-487.	0.5	4

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91	Antiferromagnetism in water doped $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ for $x \approx 0.5$. <i>Physica B: Condensed Matter</i> , 2000, 289-290, 291-294.	2.7	4
92	Antiferromagnetism in hydrated 123 compounds. <i>JETP Letters</i> , 1999, 69, 792-797.	1.4	3
93	Bobroff et al. Reply. <i>Physical Review Letters</i> , 2002, 88, .	7.8	3
94	Planar ^{17}O NMR study of $\text{Pr}_{1-y}\text{Ba}_2\text{Cu}_3\text{O}_{6+x}$. <i>Physical Review B</i> , 2002, 66, .	3.2	3
95	^{17}O NMR study of frustrated Delafossites YCuO_2 . <i>Physica B: Condensed Matter</i> , 2006, 374-375, 152-155.	2.7	3
96	ZF and low-LF ^{17}O NMR in spin-glassy icosahedral Al-Mn-Si quasicrystal. <i>Hyperfine Interactions</i> , 1994, 85, 299-304.	0.5	2
97	Using substitutions and ^{17}O nmr to probe the susceptibility $\chi''(q)$ in underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{6+y}$ and $\text{HgBa}_2\text{CuO}_4$ compounds. <i>Journal of Physics and Chemistry of Solids</i> , 1998, 59, 2160-2162.	4.0	2
98	^{67}Ga -NMR local susceptibility of the Kagome-based magnet $\text{SrCr}_9\text{O}_{19}$: A high-temperature study. <i>Canadian Journal of Physics</i> , 2001, 79, 1393-1399.	1.1	2
99	Specific Heat of the Kagome Antiferromagnet Herbertsmithite in High Magnetic Fields. <i>Physical Review X</i> , 2022, 12, .	8.9	2
100	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 ^{17}O NMR [Phys. Rev. B70, 054506 (2004)]. <i>Physical Review B</i> , 2004, 70, .	3.2	1
101	Low-T dynamics in the highly frustrated kagome bilayers: A phenomenological function for a spin liquid state?. <i>Physica B: Condensed Matter</i> , 2006, 374-375, 138-141.	2.7	1
102	Series of bulk magnetic-phase transitions in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$: A study. <i>Physica B: Condensed Matter</i> , 2006, 374-375, 278-281.	2.7	1
103	Electron spin resonance investigation of the spin-1/2 kagome antiferromagnet $\text{ZnCu}_3(\text{OH})_6\text{Cl}_2$. <i>Journal of Physics: Conference Series</i> , 2009, 145, 012014.	0.4	1
104	Dynamics and distribution of doped holes in the CuO_2 plane of slightly doped antiferromagnetic $\text{YBa}_2(\text{Cu}_{1-z}\text{Li}_z)_3\text{O}_{6+x}$ ($x < 0.1$) studied by $\text{Cu}(1)$ NQR. <i>JETP Letters</i> , 2010, 91, 83-90.	1.4	1
105	Evidence for Endohedral Muonium in KxC_6O and Consequences for Electronic Structure. <i>Physical Review Letters</i> , 1993, 70, 1353-1353.	7.8	0
106	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
107	Bobroff et al. Reply. <i>Physical Review Letters</i> , 2003, 91, .	7.8	0