Charles H Mielke

List of Publications by Year
in descending order

47 papers	1,747 citations	279798 23 h-index	265206 42 g-index
48 all docs	48 docs citations	48 times ranked	1766 citing authors

#	Article	IF	Citations
1	A multi-component Fermi surface in the vortex state of an underdoped high-Tc superconductor. Nature, 2008, 454, 200-203.	27.8	219
2	Quasi-two-dimensional organic superconductors: A review. Contemporary Physics, 2002, 43, 63-96.	1.8	169
3	Quantum oscillations in the parent magnetic phase of an iron arsenide high temperature superconductor. Journal of Physics Condensed Matter, 2008, 20, 422203.	1.8	133
4	Metal-insulator quantum critical point beneath the high T _c superconducting dome. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6175-6179.	7.1	126
5	Anisotropic magnetic properties of light rare-earth diantimonides. Physical Review B, 1998, 57, 13624-13638.	3.2	109
6	Specificity and Heterogeneity of Terahertz Radiation Effect on Gene Expression in Mouse Mesenchymal Stem Cells. Scientific Reports, 2013, 3, 1184.	3.3	78
7	Non-thermal effects of terahertz radiation on gene expression in mouse stem cells. Biomedical Optics Express, 2011, 2, 2679.	2.9	73
8	Magnetic-field, pressure, and temperature scaling of the first-order valence transition in pure and doped YbInCu4. Physical Review B, 1997, 56, 71-74.	3.2	65
9	Design and development of a 15 kV, 20 kA HTS fault current limiter. IEEE Transactions on Applied Superconductivity, 2000, 10, 832-835.	1.7	57
10	Fermi-surface topology ofÎºâˆ’(BEDTâˆ’TTF)2Cu[N(CN)2]Brat ambient pressure. Physical Review B, 1997, 56, R4309-R4312.	3.2	52
11	Alignment Dynamics of Single-Walled Carbon Nanotubes in Pulsed Ultrahigh Magnetic Fields. ACS Nano, 2009, 3, 131-138.	14.6	51
12	First 100 T non-destructive magnet. IEEE Transactions on Applied Superconductivity, 2000, 10, 510-513.	1.7	39
13	Avoided valence transition in a plutonium superconductor. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3285-3289.	7.1	39
14	High Field Gap Closure in the Kondo Insulator SmB6. Journal of Superconductivity and Novel Magnetism, 1999, 12, 171-173.	0.5	38
15	Operating experience of the United States National High Magnetic Field Laboratory 60 T Long Pulse Magnet. IEEE Transactions on Applied Superconductivity, 2000, 10, 526-529.	1.7	37
16	Suppression of the Î³â€“Î± structural phase transition in Ce0.8La0.1Th0.1by large magnetic fields. Journal of Physics Condensed Matter, 2005, 17, L77-L83.	1.8	33
17	Restoration and testing of an HTS fault current controller. IEEE Transactions on Applied Superconductivity, 2003, 13, 1984-1987.	1.7	29
18	Magnetic breakdown in the organic conductorÎ±âˆ’(BEDTâˆ’TTF)2KHg(SCN)4in magnetic fields of up to 60 T. Physical Review B, 1998, 58, 7560-7564.	3.2	28

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19	Coherent pulse interrogation system for fiber Bragg grating sensing of strain and pressure in dynamic extremes of materials. Optics Express, 2015, 23, 14219.	3.4	28
20	Characterization of the Antiferromagnetism in Ag(pyz)₂(S₂O₈) (pyz = Pyrazine) with a Two-Dimensional Square Lattice of Ag²⁺ Ions. Journal of the American Chemical Society, 2009, 131, 4590-4591.	13.7	27
21	Field-Induced Dynamic Diamagnetism in a Charge-Density-Wave System. Physical Review Letters, 2001, 86, 1586-1589.	7.8	25
22	Fermiology of the organic superconductor Î²â€³-(ET)2SF5CH2CF2SO3. Synthetic Metals, 1999, 103, 2000-2001.	3.9	24
23	High performance pulsed magnets with high strength conductors and high modulus internal reinforcement. IEEE Transactions on Applied Superconductivity, 2000, 10, 542-545.	1.7	24
24	Quasi-two-dimensional spin-split Fermi-liquid behavior ofÎºâ˜'(BEDTâ˜'TTF)2I3in strong magnetic fields. Physical Review B, 1998, 58, 10248-10255.	3.2	21
25	Experimental and Numerical Studies of Megagauss Magnetic-Field Generation at LANL-NHMFL. IEEE Transactions on Plasma Science, 2010, 38, 1739-1749.	1.3	20
26	A system to obtain radiotracer uptake data simultaneously with NMR spectra in a high field magnet. IEEE Transactions on Nuclear Science, 1996, 43, 2044-2048.	2.0	18
27	Magnetism and fermiology ofÎº-(BEDT-TSF)2FeCl4. Physical Review B, 1998, 57, 8751-8754.	3.2	18
28	Alpha-plutoniumâ€™s polycrystalline elastic moduli over its full temperature range. Journal of the Acoustical Society of America, 2007, 122, 1994-2001.	1.1	18
29	Quantum oscillations in quasi-one-dimensional metals with spin-density-wave ground states. Physical Review B, 1999, 59, 2604-2608.	3.2	17
30	The importance of edge states in the quantum Hall regime of the organic conductor. Journal of Physics Condensed Matter, 1997, 9, L533-L541.	1.8	15
31	One-and two-dimensional angle-dependent magnetoresistance oscillations(AMROs) in Îº-(BEDT-TTF)2Cu(SCN)2 in fields of up to 33 T. Synthetic Metals, 1999, 103, 1905-1906.	3.9	15
32	Magnetotransport in the heavy-fermion systemYbNi2B2C. Physical Review B, 1999, 60, 8012-8018.	3.2	14
33	Experimental evidence for FrÃ¶hlich superconductivity in high magnetic fields. Journal of Physics Condensed Matter, 2001, 13, L389-L395.	1.8	11
34	Superconductors go organic. Physics World, 2002, 15, 35-39.	0.0	9
35	Cu(II) incorporation in Îº-(ET)2Cu[N(CN)2]Br. Synthetic Metals, 1999, 103, 1878-1879.	3.9	8
36	Mapping of the anomalous magnetotransport regime in theÎ±â˜'(BEDTâ˜'TTF)2MHg(SCN)4(M=K,Tl)organic conductors. Physical Review B, 2000, 62, 7908-7919.	3.2	8

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37	Insert coil design of the first 100 T non-destructive magnet. IEEE Transactions on Applied Superconductivity, 2000, 10, 518-521.	1.7	7
38	A statistical model for the intrinsically broad superconducting-to-normal transition in quasi-two-dimensional crystalline organic metals. Journal of Physics Condensed Matter, 2001, 13, L899-L904.	1.8	7
39	Electronic-transport studies of the organic metals Î±-(BETS)2NH4Hg(SCN)4sand Î±-(BETS)2KHg(SCN)4sin high magnetic fields, where BETS is bis(ethylenedithio)tetraselenafulvalene. Physical Review B, 1997, 55, 4191-4196.	3.2	6
40	de Haasâ€“van Alphen effect in the organic metalÎ²â˜²(BEDTâ˜²TSF)2Cu[N(CN)2]Br:Crossover to two-dimensional behavior in the complete-breakdown regime. Physical Review B, 1997, 56, 12905-12908.	3.2	6
41	High magnetic field investigation of the Fermi surface of the pnictinide compound. Journal of Physics Condensed Matter, 1998, 10, 5289-5294.	1.8	6
42	Shubnikov-de Haas oscillations and Fermi surface of Ï„-phase conductors. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 18, 188-189.	2.7	5
43	Single Turn Multi-Megagauss System at the NHMFL-LOS Alamos to study plutonium. , 2006, , .		5
44	High magnetic field studies of the shape memory alloy AuZn. Journal of Physics and Chemistry of Solids, 2006, 67, 2100-2105.	4.0	4
45	Shubnikov-de Haas oscillation in PuIn3. Journal of the Korean Physical Society, 2013, 63, 380-382.	0.7	3
46	Pseudogap state in overdoped Bi2Sr2CaCu2O8+y. Physica C: Superconductivity and Its Applications, 2003, 387, 169-174.	1.2	2
47	Crossing a bridge into the unknown. Nature Nanotechnology, 2008, 3, 129-130.	31.5	1