

Charles H Mielke

List of Publications by Year in descending order

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47
papers

1,747
citations

279798

23
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265206

42
g-index

48
all docs

48
docs citations

48
times ranked

1766
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Specificity and Heterogeneity of Terahertz Radiation Effect on Gene Expression in Mouse Mesenchymal Stem Cells. Scientific Reports, 2013, 3, 1184.	3.3	78
4	Shubnikov-de Haas oscillation in PuIn ₃ . Journal of the Korean Physical Society, 2013, 63, 380-382.	0.7	3
5	Non-thermal effects of terahertz radiation on gene expression in mouse stem cells. Biomedical Optics Express, 2011, 2, 2679.	2.9	73
6	Metal-insulator quantum critical point beneath the high <i>T_c</i> superconducting dome. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6175-6179.	7.1	126
7	Experimental and Numerical Studies of Megagauss Magnetic-Field Generation at LANL-NHMFL. IEEE Transactions on Plasma Science, 2010, 38, 1739-1749.	1.3	20
8	Alignment Dynamics of Single-Walled Carbon Nanotubes in Pulsed Ultrahigh Magnetic Fields. ACS Nano, 2009, 3, 131-138.	14.6	51
9	Characterization of the Antiferromagnetism in Ag(py ₂) ₂ (S ₂ O ₈) ₈ (py ₂ = Pyrazine) with a Two-Dimensional Square Lattice of Ag ²⁺ Ions. Journal of the American Chemical Society, 2009, 131, 4590-4591.	13.7	27
10	A multi-component Fermi surface in the vortex state of an underdoped high-T _c superconductor. Nature, 2008, 454, 200-203.	27.8	219
11	Crossing a bridge into the unknown. Nature Nanotechnology, 2008, 3, 129-130.	31.5	1
12	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
13	Alpha-plutonium's polycrystalline elastic moduli over its full temperature range. Journal of the Acoustical Society of America, 2007, 122, 1994-2001.	1.1	18
14	High magnetic field studies of the shape memory alloy AuZn. Journal of Physics and Chemistry of Solids, 2006, 67, 2100-2105.	4.0	4
15	Single Turn Multi-Megagauss System at the NHMFL-LOS Alamos to study plutonium. , 2006, , .		5
16	Suppression of the $\sqrt{2} \times \sqrt{2}$ structural phase transition in Ce _{0.8} La _{0.1} Th _{0.1} by large magnetic fields. Journal of Physics Condensed Matter, 2005, 17, L77-L83.	1.8	33
17	Pseudogap state in overdoped Bi ₂ Sr ₂ CaCu ₂ O _{8+y} . Physica C: Superconductivity and Its Applications, 2003, 387, 169-174.	1.2	2
18	Shubnikov-de Haas oscillations and Fermi surface of $\bar{1}$ -phase conductors. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 18, 188-189.	2.7	5

#	ARTICLE	IF	CITATIONS
19	Restoration and testing of an HTS fault current controller. IEEE Transactions on Applied Superconductivity, 2003, 13, 1984-1987.	1.7	29
20	Quasi-two-dimensional organic superconductors: A review. Contemporary Physics, 2002, 43, 63-96.	1.8	169
21	Superconductors go organic. Physics World, 2002, 15, 35-39.	0.0	9
22	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
23	Experimental evidence for Fröhlich superconductivity in high magnetic fields. Journal of Physics Condensed Matter, 2001, 13, L389-L395.	1.8	11
24	Field-Induced Dynamic Diamagnetism in a Charge-Density-Wave System. Physical Review Letters, 2001, 86, 1586-1589.	7.8	25
25	Insert coil design of the first 100 T non-destructive magnet. IEEE Transactions on Applied Superconductivity, 2000, 10, 518-521.	1.7	7
26	Mapping of the anomalous magnetotransport regime in the $\hat{a}^{\prime\prime}$ (BEDT $\hat{a}^{\prime\prime}$ TTF)2MHg(SCN)4 (M=K,Tl) organic conductors. Physical Review B, 2000, 62, 7908-7919.	3.2	8
27	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
28	First 100 T non-destructive magnet. IEEE Transactions on Applied Superconductivity, 2000, 10, 510-513.	1.7	39
29	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
30	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
31	Magnetotransport in the heavy-fermion system YbNi2B2C. Physical Review B, 1999, 60, 8012-8018.	3.2	14
32	Quantum oscillations in quasi-one-dimensional metals with spin-density-wave ground states. Physical Review B, 1999, 59, 2604-2608.	3.2	17
33	High Field Gap Closure in the Kondo Insulator SmB6. Journal of Superconductivity and Novel Magnetism, 1999, 12, 171-173.	0.5	38
34	Cu(II) incorporation in \hat{b} -(ET)2Cu[N(CN)2]Br. Synthetic Metals, 1999, 103, 1878-1879.	3.9	8
35	One- and two-dimensional angle-dependent magnetoresistance oscillations (AMROs) in \hat{b} -(BEDT-TTF)2Cu(SCN)2 in fields of up to 33 T. Synthetic Metals, 1999, 103, 1905-1906.	3.9	15
36	Fermiology of the organic superconductor $\hat{a}^{\prime\prime}$ -(ET)2SF5CH2CF2SO3. Synthetic Metals, 1999, 103, 2000-2001.	3.9	24

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37	High magnetic field investigation of the Fermi surface of the pnictinide compound. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 5289-5294.	1.8	6
38	Magnetic breakdown in the organic conductor $\hat{\Gamma}_{\pm}^{\pm}(\text{BEDT}\hat{\Gamma}^{\pm}\text{TTF})_2\text{KHg}(\text{SCN})_4$ in magnetic fields of up to 60 T. <i>Physical Review B</i> , 1998, 58, 7560-7564.	3.2	28
39	Magnetism and fermiology of $\hat{\Gamma}^{\pm}(\text{BEDT-TSF})_2\text{FeCl}_4$. <i>Physical Review B</i> , 1998, 57, 8751-8754.	3.2	18
40	Quasi-two-dimensional spin-split Fermi-liquid behavior of $\hat{\Gamma}^{\pm}(\text{BEDT}\hat{\Gamma}^{\pm}\text{TTF})_2\text{I}_3$ in strong magnetic fields. <i>Physical Review B</i> , 1998, 58, 10248-10255.	3.2	21
41	Anisotropic magnetic properties of light rare-earth dantimonides. <i>Physical Review B</i> , 1998, 57, 13624-13638.	3.2	109
42	The importance of edge states in the quantum Hall regime of the organic conductor. <i>Journal of Physics Condensed Matter</i> , 1997, 9, L533-L541.	1.8	15
43	Magnetic-field, pressure, and temperature scaling of the first-order valence transition in pure and doped YbInCu_4 . <i>Physical Review B</i> , 1997, 56, 71-74.	3.2	65
44	Fermi-surface topology of $\hat{\Gamma}^{\pm}(\text{BEDT}\hat{\Gamma}^{\pm}\text{TTF})_2\text{Cu}[\text{N}(\text{CN})_2]\text{Br}$ at ambient pressure. <i>Physical Review B</i> , 1997, 56, R4309-R4312.	3.2	52
45	Electronic-transport studies of the organic metals $\hat{\Gamma}_{\pm}^{\pm}(\text{BETS})_2\text{NH}_4\text{Hg}(\text{SCN})_4$ and $\hat{\Gamma}_{\pm}^{\pm}(\text{BETS})_2\text{KHg}(\text{SCN})_4$ in high magnetic fields, where BETS is bis(ethylenedithio)tetraselenafulvalene. <i>Physical Review B</i> , 1997, 55, 4191-4196.	3.2	6
46	de Haas-van Alphen effect in the organic metal $\hat{\Gamma}^{\pm}(\text{BEDT}\hat{\Gamma}^{\pm}\text{TSF})_2\text{Cu}[\text{N}(\text{CN})_2]\text{Br}$: Crossover to two-dimensional behavior in the complete-breakdown regime. <i>Physical Review B</i> , 1997, 56, 12905-12908.	3.2	6
47	A system to obtain radiotracer uptake data simultaneously with NMR spectra in a high field magnet. <i>IEEE Transactions on Nuclear Science</i> , 1996, 43, 2044-2048.	2.0	18