

Gyorgy Mihaly

List of Publications by Year in descending order

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108
papers

2,581
citations

159585

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214800

47
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108
all docs

108
docs citations

108
times ranked

1783
citing authors

#	ARTICLE	IF	CITATIONS
1	Universal $1/f$ type current noise of Ag filaments in redox-based memristive nanojunctions. <i>Nanoscale</i> , 2019, 11, 4719-4725.	5.6	19
2	Asymmetry-induced resistive switching in Ag-Ag ₂ S-Ag memristors enabling a simplified atomic-scale memory design. <i>Scientific Reports</i> , 2016, 6, 30775.	3.3	30
3	Resistive switching in metallic Ag ₂ S memristors due to a local overheating induced phase transition. <i>Nanoscale</i> , 2015, 7, 11248-11254.	5.6	19
4	Non-exponential resistive switching in Ag ₂ S memristors: a key to nanometer-scale non-volatile memory devices. <i>Nanoscale</i> , 2015, 7, 4394-4399.	5.6	32
5	A fast operation of nanometer-scale metallic memristors: highly transparent conductance channels in Ag ₂ S devices. <i>Nanoscale</i> , 2014, 6, 2613-2617.	5.6	23
6	From stochastic single atomic switch to nanoscale resistive memory device. <i>Nanoscale</i> , 2011, 3, 1504.	5.6	25
7	Direct measurement of the spin diffusion length by Andreev spectroscopy. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	4
8	Probing of Ag-based Resistive Switching on the Nanoscale. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1331, 10701.	0.1	2
9	Improved thermal relaxation method for the simultaneous measurement of the specific heat and thermal conductivity. <i>European Physical Journal B</i> , 2010, 74, 27-33.	1.5	7
10	Transition from coherent mesoscopic single-particle transport to Josephson proximity current. <i>Physical Review B</i> , 2010, 82, .	3.2	1
11	Magnetic-Order-Induced Crystal Symmetry Lowering in CrO_4 Ferrimagnetic Spinels. <i>Physical Review Letters</i> , 2009, 103, 077205.	7.8	47
12	Multicritical End Point of the First-Order Ferromagnetic Transition in Colossal Magnetoresistive Manganites. <i>Physical Review Letters</i> , 2008, 101, 037206.	7.8	47
13	Anomalous Hall Effect in the (In,Mn)Sb Dilute Magnetic Semiconductor. <i>Physical Review Letters</i> , 2008, 100, 107201.	7.8	38
14	Huge negative differential conductance in Au^2H_2 molecular nanojunctions. <i>Physical Review B</i> , 2008, 77, .	3.2	43
15	Nanoscale spin polarization in the dilute magnetic semiconductor (In,Mn)Sb. <i>Physical Review B</i> , 2008, 77, .	3.2	14
16	High-pressure infrared spectroscopy: Tuning of the low-energy excitations in correlated electron systems. <i>Physical Review B</i> , 2007, 76, .	3.2	5
17	Magnetic-field-induced transition in BaVS ₃ . <i>Physical Review B</i> , 2007, 75, .	3.2	6
18	Interaction of hydrogen with metallic nanojunctions. <i>Journal of Physics: Conference Series</i> , 2007, 61, 214-218.	0.4	1

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19	The electronic structure and the phases of. Journal of Magnetism and Magnetic Materials, 2007, 310, 928-934.	2.3	6
20	Magnetic and transport properties of Fe-Ag granular multilayers. Physical Review B, 2006, 73, .	3.2	21
21	Separation of Orbital Contributions to the Optical Conductivity of BaVS ₃ . Physical Review Letters, 2006, 96, 186402.	7.8	26
22	Pulling gold nanowires with a hydrogen clamp: Strong interactions of hydrogen molecules with gold nanojunctions. Physical Review B, 2006, 73, .	3.2	68
23	Depressed charge gap in the triangular-lattice Mott insulator $\hat{\rho}^{\sim}(ET)2Cu2(CN)3$. Physical Review B, 2006, 74, .	3.2	55
24	Pressure-induced ferromagnetism in (In,Mn)Sb dilute magnetic semiconductor. Nature Materials, 2005, 4, 447-449.	27.5	82
25	Publisher's Note: Magnetic Scattering of Spin Polarized Carriers in (In,Mn)Sb Dilute Magnetic Semiconductor [Phys. Rev. Lett. 95, 227203 (2005)]. Physical Review Letters, 2005, 95, .	7.8	4
26	Magnetic Scattering of Spin Polarized Carriers in (In,Mn)Sb Dilute Magnetic Semiconductor. Physical Review Letters, 2005, 95, 227203.	7.8	49
27	Pressure-induced suppression of the spin-gapped insulator phase in BaVS ₃ : An infrared optical study. Physical Review B, 2005, 71, .	3.2	11
28	Conductance of Pd-H Nanojunctions. Physical Review Letters, 2004, 93, .	7.8	104
29	Field and temperature induced effects in the surface modification process. Journal of Applied Physics, 2004, 96, 6169-6174.	2.5	4
30	Magnetic properties of superparamagnet/ferromagnet heterostructures. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3235-3238.	0.8	0
31	Effect of hydrostatic pressure on the transport properties in magnetic semiconductors. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3571-3574.	0.8	11
32	Enhanced granular magnetoresistance due to ferromagnetic layers. Solid State Communications, 2003, 126, 427-429.	1.9	7
33	Fractional Conductance in Hydrogen-Embedded Gold Nanowires. Physical Review Letters, 2003, 90, 116803.	7.8	79
34	Point-contact spectroscopy of the relaxation dynamics of two-level systems upon structural changes in Ni $\hat{\rho}$ -Nb glasses. Low Temperature Physics, 2003, 29, 123-129.	0.6	1
35	Interface Magnetoresistance of Fe/Ag Multilayers. Physica Status Solidi A, 2002, 189, 621-624.	1.7	3
36	BaVS ₃ : from spin gap insulator to non-Fermi-liquid. Physica B: Condensed Matter, 2002, 312-313, 694-695.	2.7	4

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37	Magnetoresistance of Ag/Fe/Ag and Cr/Fe/Cr trilayers. Solid State Communications, 2002, 122, 59-63.	1.9	11
38	Microwave second-harmonic generation and point-contact spectroscopy of Ni ϵ -Nb metallic glasses. Low Temperature Physics, 2001, 27, 1021-1027.	0.6	4
39	High-frequency behavior of metallic glass NixNb $_{1-x}$ point-contacts. Solid State Communications, 2001, 118, 623-627.	1.9	4
40	Search for magnetic field induced gap in a high-Tc superconductor. Solid State Communications, 2000, 116, 197-200.	1.9	1
41	Crossovers in the out-of-plane resistivity of superconducting Tl ₂ Ba ₂ CaCu ₂ O ₈ single crystals. Europhysics Letters, 2000, 52, 584-588.	2.0	8
42	Orbitally driven spin pairing in the three-dimensional nonmagnetic Mott insulator BaVS ₃ : Evidence from single-crystal studies. Physical Review B, 2000, 61, R7831-R7834.	3.2	59
43	Hall Effect and Conduction Anisotropy in the Organic Conductor (TMTSF) ₂ PF ₆ . Physical Review Letters, 2000, 84, 2670-2673.	7.8	51
44	Pressure Induced Quantum Critical Point and Non-Fermi-Liquid Behavior in BaVS ₃ . Physical Review Letters, 2000, 85, 1938-1941.	7.8	54
45	Transport properties and point-contact spectra of NixNb $_{1-x}$ metallic glasses. Physical Review B, 2000, 61, 5846-5849.	3.2	17
46	Anisotropic transport in the spin-density-wave state of (TMTSF) ₂ PF ₆ . Physical Review B, 1999, 60, 4414-4417.	3.2	9
47	Field scaling and exponential temperature dependence of the magnetoresistance in (TMTSF) ₂ PF ₆ . Physical Review B, 1999, 60, R8434-R8437.	3.2	5
48	Low temperature freezing out of the collective SDW excitations in (TMTSF) ₂ PF ₆ . Synthetic Metals, 1999, 103, 2135-2136.	3.9	0
49	Transverse transport in the SDW phase of (TMTSF) ₂ PF ₆ . Synthetic Metals, 1999, 103, 2137.	3.9	0
50	Thermal and optical gaps in nearly-one-dimensional compounds. Physical Review B, 1997, 55, R13456-R13464.	3.2	15
51	Energy Gap in Superconducting Fullerenes: Optical and Tunneling Studies. Physical Review Letters, 1996, 77, 4082-4085.	7.8	33
52	Distribution of K ions in intermediate KC ₆₀ . Physical Review B, 1995, 52, 3199-3205.	3.2	23
53	Dimerization in KC ₆₀ and RbC ₆₀ . Physical Review B, 1995, 51, 12228-12232.	3.2	106
54	The low temperature spin density wave transport: Effects of magnetic field in (TMTSF) ₂ PF ₆ and disorder in (TMTSF) ₂ X's. Synthetic Metals, 1995, 70, 1287-1290.	3.9	3

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55	Conduction electron spin resonance in Rb1C60 and Rb3C60. Synthetic Metals, 1995, 70, 1333-1336.	3.9	5
56	Photoconduction in the blue bronze. Synthetic Metals, 1993, 57, 5100-5105.	3.9	0
57	Low-temperature spin-density-wave transport. Synthetic Metals, 1993, 56, 2587-2592.	3.9	0
58	Search for aging effects in randomly pinned charge-density waves. Physical Review B, 1993, 48, 14717-14720.	3.2	2
59	Photoinduced charge-density-wave conduction. Physical Review Letters, 1992, 69, 1244-1247.	7.8	4
60	Nonlinear conduction in the spin-density-wave ground state. Physical Review B, 1992, 45, 8795-8798.	3.2	8
61	The mechanism of charge-density-wave pinning, excitations of the pinned condensate. Synthetic Metals, 1991, 43, 3799-3805.	3.9	1
62	Complete excitation spectrum of charge-density waves: Optical experiments on K0.3MoO3. Physical Review B, 1991, 44, 7808-7819.	3.2	87
63	Dielectric excitations of the pinned charge- and spin-density wave. Solid State Communications, 1991, 79, 811-813.	1.9	27
64	Crossover in low-temperature collective spin-density-wave transport. Physical Review Letters, 1991, 67, 2713-2716.	7.8	46
65	Comment on "Critical behavior of pinned charge-density waves below the threshold for sliding". Physical Review Letters, 1991, 67, 3872-3872.	7.8	1
66	Dielectric relaxation of the pinned spin-density wave in (TMTSF)2PF6. Physical Review Letters, 1991, 66, 2806-2809.	7.8	43
67	Pinning energy versus order parameter in a charge-density-wave system. Physical Review Letters, 1990, 64, 459-462.	7.8	23
68	Frequency-Dependent Thermoelectric Power in K0.3MoO3. Physical Review Letters, 1989, 62, 2032-2035.	7.8	12
69	ac response of the charge-density-wave mode in K0.3MoO3. Physical Review B, 1989, 39, 13009-13012.	3.2	30
70	Charge-Density Wave Dielectrics: Pinned Fröhlich Mode at Low Temperatures. Europhysics Letters, 1989, 9, 483-488.	2.0	8
71	Onset of the charge-density wave conduction at low temperatures in K0.3MoO3. Solid State Communications, 1989, 69, 975-978.	1.9	9
72	Heat transport by moving charge-density waves. Solid State Communications, 1988, 68, 993-996.	1.9	6

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73	Charge-density wave conduction with extremely low differential resistance in $K_{0.3}MoO_3$: Current oscillations. <i>Solid State Communications</i> , 1988, 66, 149-152.	1.9	11
74	Electronic anisotropy of nonlinear properties in the low-temperature sliding charge-density-wave state of $K_{0.3}MoO_3$. <i>Physical Review B</i> , 1988, 37, 6536-6539.	3.2	17
75	Reversible and remanent charge-density-wave polarization at low temperatures. <i>Physical Review B</i> , 1988, 38, 12740-12743.	3.2	17
76	Low-temperature charge-density-wave dynamics. <i>Physical Review B</i> , 1988, 38, 3602-3605.	3.2	36
77	Critical divergence at the charge-density-wave depinning threshold. <i>Physical Review Letters</i> , 1988, 60, 470-470.	7.8	6
78	Coupling between single-particle and collective excitations in a charge-density-wave system: Field dependence of nonlinear conduction in the blue bronze $K_{0.3}MoO_3$. <i>Physical Review B</i> , 1988, 37, 1047-1050.	3.2	67
79	Kriza and Mihály respond. <i>Physical Review Letters</i> , 1987, 58, 525-525.	7.8	0
80	Rigidity of charge density wave current under inhomogeneous conditions in the blue bronze $Rb_{0.3}MoO_3$. <i>Solid State Communications</i> , 1987, 61, 33-36.	1.9	15
81	Sliding charge density waves without damping: Possible frictionless superconductivity in blue bronze. <i>Solid State Communications</i> , 1987, 63, 911-914.	1.9	81
82	Microwave conductivity of the blue bronze $K_{0.3}MoO_3$. <i>Solid State Communications</i> , 1986, 60, 785-788.	1.9	4
83	Stretched-Exponential Dielectric Relaxation in a Charge-Density-Wave System. <i>Physical Review Letters</i> , 1986, 56, 2529-2532.	7.8	116
84	Relaxation of charge-density-wave deformations in orthorhombic TaS_3 : Electric and thermal memory effects. <i>Physical Review B</i> , 1984, 30, 3578-3581.	3.2	22
85	Spontaneous Decay of Metastable States in Orthorhombic TaS_3 . <i>Physical Review Letters</i> , 1984, 52, 149-151.	7.8	98
86	Current induced deformation of charge density waves in orthorhombic TaS_3 . <i>Solid State Communications</i> , 1984, 51, 63-66.	1.9	28
87	Pinning of charge density waves by irradiation induced defects in orthorhombic TaS_3 . <i>Solid State Communications</i> , 1984, 49, 1009-1012.	1.9	15
88	Local distortion of pinned charge density waves in orthorhombic TaS_3 . <i>Solid State Communications</i> , 1983, 48, 203-205.	1.9	27
89	Metastable electronic states in orthorhombic TaS_3 . <i>Solid State Communications</i> , 1983, 47, 121-125.	1.9	46
90	Memory effects in orthorhombic TaS_3 . <i>Solid State Communications</i> , 1983, 48, 449-452.	1.9	31

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91	Macroscopic coherence length of charge-density waves in orthorhombic TaS ₃ . Physical Review B, 1983, 28, 4896-4899.	3.2	35
92	Effects of neutron irradiation induced defects and chemical impurities on the 'DC' conductivity of TTT ₂ I ₃ . Journal of Physics C: Solid State Physics, 1980, 13, 739-746.	1.5	9
93	Electric properties of iodine-doped polyacetylene. Synthetic Metals, 1980, 1, 357-362.	3.9	24
94	Decrease electronic coherence length by impurities in the quasi-one-dimensional charge transfer salt Qn(TCNQ) ₂ . Journal of Physics C: Solid State Physics, 1979, 12, 1883-1889.	1.5	5
95	Defect dependence of the dielectric permeability of Qn(TCNQ) ₂ . Solid State Communications, 1979, 31, 145-149.	1.9	33
96	Defect concentration dependent phase transition in the organic quasi-one-dimensional conductor N-Propyl-Quinolinium (TCNQ) ₂ . Solid State Communications, 1979, 32, 845-849.	1.9	14
97	Nonlinear transport in one-dimensional materials due to bound quantum solitons. Solid State Communications, 1979, 29, 645-648.	1.9	8
98	Nonlinear transport in Qn(TCNQ) ₂ . Physica Status Solidi (B): Basic Research, 1979, 94, 287-296.	1.5	22
99	Highly conducting organic alloys (NBDT) ₂ xBr ₃ (NBDT = naphthaceno[5,6-cd:11,12-câ€²dâ€²]bis[1,2]dithiole). Journal of the Chemical Society Chemical Communications, 1978, , 974-975.	2.0	3
100	Complex TCNQ salts with asymmetric donors. I. Transport properties. Journal of Physics C: Solid State Physics, 1978, 11, 4707-4725.	1.5	22
101	Impurity effects in the organic charge transfer salt Qn(TCNQ) ₂ . Journal of Physics C: Solid State Physics, 1977, 10, L423-L427.	1.5	9
102	2-3-Benzacridinium (TCNQ) ₂ : A small bandgap semiconductor. Solid State Communications, 1977, 21, 1115-1118.	1.9	6
103	Electronic spectra of the organic charge transfer salts TTT-In. Solid State Communications, 1977, 24, 93-96.	1.9	12
104	Single crystal conductivity of bipyridine-TCNQ salts. Solid State Communications, 1977, 21, 721-724.	1.9	20
105	Dimensionality and disorder in TTT-I _{1.6} . Solid State Communications, 1977, 22, 771-774.	1.9	42
106	Interchain interactions and phase transition in NMeQn(TCNQ) ₂ . Solid State Communications, 1976, 19, 1091-1094.	1.9	11
107	Magnetic and electric properties of NMeQn(TCNQ) ₂ . Solid State Communications, 1975, 17, 1007-1009.	1.9	5
108	High-temperature resistivity of Qn(TCNQ) ₂ and Ad(TCNQ) ₂ . Journal of Physics C: Solid State Physics, 1975, 8, L361-L364.	1.5	6