

# Gyorgy Mihaly

## List of Publications by Year in descending order

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108  
papers

2,581  
citations

159585

30  
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214800

47  
g-index

108  
all docs

108  
docs citations

108  
times ranked

1783  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretched-Exponential Dielectric Relaxation in a Charge-Density-Wave System. Physical Review Letters, 1986, 56, 2529-2532.	7.8	116
2	Dimerization in $KC_6O$ and $RbC_6O$ . Physical Review B, 1995, 51, 12228-12232.	3.2	106
3	Conductance of Pd-H Nanojunctions. Physical Review Letters, 2004, 93, .	7.8	104
4	Spontaneous Decay of Metastable States in Orthorhombic $TaS_3$ . Physical Review Letters, 1984, 52, 149-151.	7.8	98
5	Magnetic-Order-Induced Crystal Symmetry Lowering in $Cr_2O_4$ Ferrimagnetic Spinel. Physical Review Letters, 2009, 103, 077205.	7.8	92
6	Complete excitation spectrum of charge-density waves: Optical experiments on $K_0.3MoO_3$ . Physical Review B, 1991, 44, 7808-7819.	3.2	87
7	Pressure-induced ferromagnetism in (In,Mn)Sb dilute magnetic semiconductor. Nature Materials, 2005, 4, 447-449.	27.5	82
8	Sliding charge density waves without damping: Possible $d$ -wave superconductivity in blue bronze. Solid State Communications, 1987, 63, 911-914.	1.9	81
9	Fractional Conductance in Hydrogen-Embedded Gold Nanowires. Physical Review Letters, 2003, 90, 116803.	7.8	79
10	Pulling gold nanowires with a hydrogen clamp: Strong interactions of hydrogen molecules with gold nanojunctions. Physical Review B, 2006, 73, .	3.2	68
11	Coupling between single-particle and collective excitations in a charge-density-wave system: Field dependence of nonlinear conduction in the blue bronze $K_0.3MoO_3$ . Physical Review B, 1988, 37, 1047-1050.	3.2	67
12	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
13	Depressed charge gap in the triangular-lattice Mott insulator $(ET)_2Cu_2(CN)_3$ . Physical Review B, 2006, 74, .	3.2	55
14	Pressure Induced Quantum Critical Point and Non-Fermi-Liquid Behavior in $BaVS_3$ . Physical Review Letters, 2000, 85, 1938-1941.	7.8	54
15	Hall Effect and Conduction Anisotropy in the Organic Conductor $(TMTSF)_2PF_6$ . Physical Review Letters, 2000, 84, 2670-2673.	7.8	51
16	Magnetic Scattering of Spin Polarized Carriers in (In,Mn)Sb Dilute Magnetic Semiconductor. Physical Review Letters, 2005, 95, 227203.	7.8	49
17	Multicritical End Point of the First-Order Ferromagnetic Transition in Colossal Magnetoresistive Manganites. Physical Review Letters, 2008, 101, 037206.	7.8	47
18	Metastable electronic states in orthorhombic $TaS_3$ . Solid State Communications, 1983, 47, 121-125.	1.9	46

#	ARTICLE	IF	CITATIONS
19	Crossover in low-temperature collective spin-density-wave transport. Physical Review Letters, 1991, 67, 2713-2716.	7.8	46
20	Dielectric relaxation of the pinned spin-density wave in (TMTSF) <sub>2</sub> PF <sub>6</sub> . Physical Review Letters, 1991, 66, 2806-2809.	7.8	43
21	Huge negative differential conductance in Au <sub>H</sub> molecular nanojunctions. Physical Review B, 2008, 77, .	3.2	43
22	Dimensionality and disorder in TTT-11.6. Solid State Communications, 1977, 22, 771-774.	1.9	42
23	Anomalous Hall Effect in the (In,Mn)Sb Dilute Magnetic Semiconductor. Physical Review Letters, 2008, 100, 107201.	7.8	38
24	Low-temperature charge-density-wave dynamics. Physical Review B, 1988, 38, 3602-3605.	3.2	36
25	Macroscopic coherence length of charge-density waves in orthorhombic TaS <sub>3</sub> . Physical Review B, 1983, 28, 4896-4899.	3.2	35
26	Defect dependence of the dielectric permeability of Qn(TCNQ) <sub>2</sub> . Solid State Communications, 1979, 31, 145-149.	1.9	33
27	Energy Gap in Superconducting Fullerenes: Optical and Tunneling Studies. Physical Review Letters, 1996, 77, 4082-4085.	7.8	33
28	Non-exponential resistive switching in Ag <sub>2</sub> S memristors: a key to nanometer-scale non-volatile memory devices. Nanoscale, 2015, 7, 4394-4399.	5.6	32
29	Memory effects in orthorhombic TaS <sub>3</sub> . Solid State Communications, 1983, 48, 449-452.	1.9	31
30	ac response of the charge-density-wave mode in K <sub>0.3</sub> MoO <sub>3</sub> . Physical Review B, 1989, 39, 13009-13012.	3.2	30
31	Asymmetry-induced resistive switching in Ag-Ag <sub>2</sub> S-Ag memristors enabling a simplified atomic-scale memory design. Scientific Reports, 2016, 6, 30775.	3.3	30
32	Current induced deformation of charge density waves in orthorhombic TaS <sub>3</sub> . Solid State Communications, 1984, 51, 63-66.	1.9	28
33	Local distortion of pinned charge density waves in orthorhombic TaS <sub>3</sub> . Solid State Communications, 1983, 48, 203-205.	1.9	27
34	Dielectric excitations of the pinned charge- and spin-density wave. Solid State Communications, 1991, 79, 811-813.	1.9	27
35	Separation of Orbital Contributions to the Optical Conductivity of BaVS <sub>3</sub> . Physical Review Letters, 2006, 96, 186402.	7.8	26
36	From stochastic single atomic switch to nanoscale resistive memory device. Nanoscale, 2011, 3, 1504.	5.6	25

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37	Electric properties of iodine-doped polyacetylene. <i>Synthetic Metals</i> , 1980, 1, 357-362.	3.9	24
38	Pinning energy versus order parameter in a charge-density-wave system. <i>Physical Review Letters</i> , 1990, 64, 459-462.	7.8	23
39	Distribution of K ions in intermediate KC60. <i>Physical Review B</i> , 1995, 52, 3199-3205.	3.2	23
40	A fast operation of nanometer-scale metallic memristors: highly transparent conductance channels in $\text{Ag}_2\text{S}$ devices. <i>Nanoscale</i> , 2014, 6, 2613-2617.	5.6	23
41	Complex TCNQ salts with asymmetric donors. I. Transport properties. <i>Journal of Physics C: Solid State Physics</i> , 1978, 11, 4707-4725.	1.5	22
42	Nonlinear transport in $\text{Qn}(\text{TCNQ})_2$ . <i>Physica Status Solidi (B): Basic Research</i> , 1979, 94, 287-296.	1.5	22
43	Relaxation of charge-density-wave deformations in orthorhombic $\text{TaS}_3$ : Electric and thermal memory effects. <i>Physical Review B</i> , 1984, 30, 3578-3581.	3.2	22
44	Magnetic and transport properties of Fe-Ag granular multilayers. <i>Physical Review B</i> , 2006, 73, .	3.2	21
45	Single crystal conductivity of bipyridine-TCNQ salts. <i>Solid State Communications</i> , 1977, 21, 721-724.	1.9	20
46	Resistive switching in metallic $\text{Ag}_2\text{S}$ memristors due to a local overheating induced phase transition. <i>Nanoscale</i> , 2015, 7, 11248-11254.	5.6	19
47	Universal $1/f$ type current noise of Ag filaments in redox-based memristive nanojunctions. <i>Nanoscale</i> , 2019, 11, 4719-4725.	5.6	19
48	Electronic anisotropy of nonlinear properties in the low-temperature sliding charge-density-wave state of $\text{K}_0.3\text{MoO}_3$ . <i>Physical Review B</i> , 1988, 37, 6536-6539.	3.2	17
49	Reversible and remanent charge-density-wave polarization at low temperatures. <i>Physical Review B</i> , 1988, 38, 12740-12743.	3.2	17
50	Transport properties and point-contact spectra of $\text{Ni}_x\text{Nb}_{1-x}$ metallic glasses. <i>Physical Review B</i> , 2000, 61, 5846-5849.	3.2	17
51	Pinning of charge density waves by irradiation induced defects in orthorhombic $\text{TaS}_3$ . <i>Solid State Communications</i> , 1984, 49, 1009-1012.	1.9	15
52	Rigidity of charge density wave current under inhomogeneous conditions in the blue bronze $\text{Rb}_0.3\text{MoO}_3$ . <i>Solid State Communications</i> , 1987, 61, 33-36.	1.9	15
53	Thermal and optical gaps in nearly-one-dimensional compounds. <i>Physical Review B</i> , 1997, 55, R13456-R13464.	3.2	15
54	Defect concentration dependent phase transition in the organic quasi-one-dimensional conductor N-Propyl-Quinolinium (TCNQ) <sub>2</sub> . <i>Solid State Communications</i> , 1979, 32, 845-849.	1.9	14

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55	Nanoscale spin polarization in the dilute magnetic semiconductor (In,Mn)Sb. Physical Review B, 2008, 77, .	3.2	14
56	Electronic spectra of the organic charge transfer salts TTT-In. Solid State Communications, 1977, 24, 93-96.	1.9	12
57	Frequency-Dependent Thermoelectric Power in $K_0.3MoO_3$ . Physical Review Letters, 1989, 62, 2032-2035.	7.8	12
58	Interchain interactions and phase transition in $NMeQn(TCNQ)_2$ . Solid State Communications, 1976, 19, 1091-1094.	1.9	11
59	Charge-density wave conduction with extremely low differential resistance in $K_0.3MoO_3$ : Current oscillations. Solid State Communications, 1988, 66, 149-152.	1.9	11
60	Magnetoresistance of $Ag/Fe/Ag$ and $Cr/Fe/Cr$ trilayers. Solid State Communications, 2002, 122, 59-63.	1.9	11
61	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
62	Pressure-induced suppression of the spin-gapped insulator phase in $BaVS_3$ : An infrared optical study. Physical Review B, 2005, 71, .	3.2	11
63	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
64	Effects of neutron irradiation induced defects and chemical impurities on the 'DC' conductivity of $TTT_2I_3$ . Journal of Physics C: Solid State Physics, 1980, 13, 739-746.	1.5	9
65	Onset of the charge-density wave conduction at low temperatures in $K_0.3MoO_3$ . Solid State Communications, 1989, 69, 975-978.	1.9	9
66	Anisotropic transport in the spin-density-wave state of $(TMTSF)_2PF_6$ . Physical Review B, 1999, 60, 4414-4417.	3.2	9
67	Nonlinear transport in one-dimensional materials due to bound quantum solitons. Solid State Communications, 1979, 29, 645-648.	1.9	8
68	Charge-Density Wave Dielectrics: Pinned Fröhlich Mode at Low Temperatures. Europhysics Letters, 1989, 9, 483-488.	2.0	8
69	Nonlinear conduction in the spin-density-wave ground state. Physical Review B, 1992, 45, 8795-8798.	3.2	8
70	Crossovers in the out-of-plane resistivity of superconducting $Tl_2Ba_2CaCu_2O_8$ single crystals. Europhysics Letters, 2000, 52, 584-588.	2.0	8
71	Enhanced granular magnetoresistance due to ferromagnetic layers. Solid State Communications, 2003, 126, 427-429.	1.9	7
72	Improved thermal relaxation method for the simultaneous measurement of the specific heat and thermal conductivity. European Physical Journal B, 2010, 74, 27-33.	1.5	7

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73	High-temperature resistivity of $\text{Qn}(\text{TCNQ})_2$ and $\text{Ad}(\text{TCNQ})_2$ . Journal of Physics C: Solid State Physics, 1975, 8, L361-L364.	1.5	6
74	2-3-Benzacridinium (TCNQ) <sub>2</sub> : A small bandgap semiconductor. Solid State Communications, 1977, 21, 1115-1118.	1.9	6
75	Heat transport by moving charge-density waves. Solid State Communications, 1988, 68, 993-996.	1.9	6
76	Critical divergence at the charge-density-wave depinning threshold. Physical Review Letters, 1988, 60, 470-470.	7.8	6
77	Magnetic-field-induced transition in $\text{BaVS}_3$ . Physical Review B, 2007, 75, .	3.2	6
78	The electronic structure and the phases of. Journal of Magnetism and Magnetic Materials, 2007, 310, 928-934.	2.3	6
79	Magnetic and electric properties of $\text{NMeQn}(\text{TCNQ})_2$ . Solid State Communications, 1975, 17, 1007-1009.	1.9	5
80	Decrease electronic coherence length by impurities in the quasi-one-dimensional charge transfer salt $\text{Qn}(\text{TCNQ})_2$ . Journal of Physics C: Solid State Physics, 1979, 12, 1883-1889.	1.5	5
81	Conduction electron spin resonance in $\text{Rb}_1\text{C}_{60}$ and $\text{Rb}_3\text{C}_{60}$ . Synthetic Metals, 1995, 70, 1333-1336.	3.9	5
82	Field scaling and exponential temperature dependence of the magnetoresistance in $(\text{TMTSF})_2\text{PF}_6$ . Physical Review B, 1999, 60, R8434-R8437.	3.2	5
83	High-pressure infrared spectroscopy: Tuning of the low-energy excitations in correlated electron systems. Physical Review B, 2007, 76, .	3.2	5
84	Microwave conductivity of the blue bronze $\text{K}_{0.3}\text{MoO}_3$ . Solid State Communications, 1986, 60, 785-788.	1.9	4
85	Photoinduced charge-density-wave conduction. Physical Review Letters, 1992, 69, 1244-1247.	7.8	4
86	Microwave second-harmonic generation and point-contact spectroscopy of $\text{Ni}\hat{=}\text{Nb}$ metallic glasses. Low Temperature Physics, 2001, 27, 1021-1027.	0.6	4
87	High-frequency behavior of metallic glass $\text{Ni}_x\text{Nb}_{1-x}$ point-contacts. Solid State Communications, 2001, 118, 623-627.	1.9	4
88	$\text{BaVS}_3$ : from spin gap insulator to non-Fermi-liquid. Physica B: Condensed Matter, 2002, 312-313, 694-695.	2.7	4
89	Field and temperature induced effects in the surface modification process. Journal of Applied Physics, 2004, 96, 6169-6174.	2.5	4
90	Publisher's Note: Magnetic Scattering of Spin Polarized Carriers in $(\text{In},\text{Mn})\text{Sb}$ Dilute Magnetic Semiconductor [Phys. Rev. Lett. 95, 227203 (2005)]. Physical Review Letters, 2005, 95, .	7.8	4

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91	Direct measurement of the spin diffusion length by Andreev spectroscopy. Applied Physics Letters, 2011, 98, .	3.3	4
92	Highly conducting organic alloys (NBDT) <sub>2</sub> IxBr <sub>3</sub> (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
93	The low temperature spin density wave transport: Effects of magnetic field in (TMTSF) <sub>2</sub> PF <sub>6</sub> and disorder in (TMTSF) <sub>2</sub> X's. Synthetic Metals, 1995, 70, 1287-1290.	3.9	3
94	Interface Magnetoresistance of Fe/Ag Multilayers. Physica Status Solidi A, 2002, 189, 621-624.	1.7	3
95	Search for aging effects in randomly pinned charge-density waves. Physical Review B, 1993, 48, 14717-14720.	3.2	2
96	Probing of Ag-based Resistive Switching on the Nanoscale. Materials Research Society Symposia Proceedings, 2011, 1331, 10701.	0.1	2
97	The mechanism of charge-density-wave pinning, excitations of the pinned condensate. Synthetic Metals, 1991, 43, 3799-3805.	3.9	1
98	Comment on "Critical behavior of pinned charge-density waves below the threshold for sliding". Physical Review Letters, 1991, 67, 3872-3872.	7.8	1
99	Search for magnetic field induced gap in a high-T <sub>c</sub> superconductor. Solid State Communications, 2000, 116, 197-200.	1.9	1
100	Point-contact spectroscopy of the relaxation dynamics of two-level systems upon structural changes in Niâ€“Nb glasses. Low Temperature Physics, 2003, 29, 123-129.	0.6	1
101	Interaction of hydrogen with metallic nanojunctions. Journal of Physics: Conference Series, 2007, 61, 214-218.	0.4	1
102	Transition from coherent mesoscopic single-particle transport to Josephson proximity current. Physical Review B, 2010, 82, .	3.2	1
103	Kriza and Mihály respond. Physical Review Letters, 1987, 58, 525-525.	7.8	0
104	Photoconduction in the blue bronze. Synthetic Metals, 1993, 57, 5100-5105.	3.9	0
105	Low-temperature spin-density-wave transport. Synthetic Metals, 1993, 56, 2587-2592.	3.9	0
106	Low temperature freezing out of the collective SDW excitations in (TMTSF) <sub>2</sub> PF <sub>6</sub> . Synthetic Metals, 1999, 103, 2135-2136.	3.9	0
107	Transverse transport in the SDW phase of (TMTSF) <sub>2</sub> PF <sub>6</sub> . Synthetic Metals, 1999, 103, 2137.	3.9	0
108	Magnetic properties of superparamagnet/ferromagnet heterostructures. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3235-3238.	0.8	0