

Martin Dressel

List of Publications by Year in descending order

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121
papers

6,770
citations

41323

49
h-index

60583

81
g-index

122
all docs

122
docs citations

122
times ranked

7271
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In Vitro</i> Comparison of Two Electromagnetic Shockwave Generators: Low-Pressure Wide Focus vs High-Pressure Small Focus – Impact on Initial Stone Fragmentation and Final Stone Comminution. <i>Journal of Endourology</i> , 2022, 36, 266-272.	1.1	1
2	Single-particle and collective excitations of polar water molecules confined in nano-pores within a cordierite crystal lattice. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6890-6904.	1.3	8
3	Distinction of charge transfer and Frenkel excitons in pentacene traced via infrared spectroscopy. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5582-5589.	2.7	3
4	Nodal Semimetals: A Survey on Optical Conductivity. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000027.	0.7	18
5	Chemical tuning of molecular quantum materials $\hat{P} \cdot [(BEDT-TTF)_{1-x}(BEDT-STF)_x]_2Cu_2(CN)_3$: from the Mott-insulating quantum spin liquid to metallic Fermi liquid. <i>Journal of Materials Chemistry C</i> , 2021, 9, 10841-10850.	2.7	8
6	Spectroscopic trace of the Lifshitz transition and multivalley activation in thermoelectric SnSe under high pressure. <i>NPG Asia Materials</i> , 2021, 13, .	3.8	8
7	Phase coexistence at the first-order Mott transition revealed by pressure-dependent dielectric spectroscopy of $\langle mml:math$		

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19	Deuteration Effects on the Transport Properties of (TMTTF) ₂ X Salts. Crystals, 2020, 10, 1085.	1.0	4
20	Microwave probing of bulk dielectrics using superconducting coplanar resonators in distant-flip-chip geometry. Review of Scientific Instruments, 2020, 91, 054702.	0.6	2
21	Wavelength dependence of the second harmonic generation of percolating gold thin films. Journal of Applied Physics, 2020, 127, 163101.	1.1	3
22	Two Linear Regimes in Optical Conductivity of a Type-I Weyl Semimetal: The Case of Elemental Tellurium. Physical Review Letters, 2020, 124, 136402.	2.9	17
23	Infrared Optical Conductivity of Bulk Bi ₂ Te ₂ Se. Crystals, 2020, 10, 553.	1.0	3
24	Cryogenic frequency-domain electron spin resonance spectrometer based on coplanar waveguides and field modulation. Review of Scientific Instruments, 2020, 91, 025106.	0.6	4
25	Pressure-Induced Neutral to Ionic Phase Transition in the Mixed-Stack 2:1 Charge-Transfer Complex (EDT-TTF-TCNQ) ₂ . Journal of Physical Chemistry C, 2020, 124, 5552-5558.	1.5	4
26	Sub-lattice of Jahn-Teller centers in hexaferrite crystal. Scientific Reports, 2020, 10, 7076.	1.6	24
27	Anomalously High Proton Conduction of Interfacial Water. Journal of Physical Chemistry Letters, 2020, 11, 3623-3628.	2.1	21
28	Optical conductivity of multifold fermions: The case of RhSi. Physical Review Research, 2020, 2, .	1.3	21
29	Interacting electron spins in $N\hat{\rho}^{\wedge}CN$. Physical Review B, 2020, 102, .		
30	Mueller matrix metrology: Depolarization reveals size distribution. Applied Physics Letters, 2019, 115, .	1.5	5
31	Hertz-To-Terahertz Dielectric Response of Nanoconfined Water Molecules. Proceedings (mdpi), 2019, 26, .	0.2	1
32	Charge localization in 1D tetramerized organic conductors: the special case of (tTTF) ₂ ClO ₄ . Journal of Physics Condensed Matter, 2019, 31, 155601.	0.7	0
33	Influence of chemical substitution on broadband dielectric response of barium-lead M-type hexaferrite. New Journal of Physics, 2019, 21, 063016.	1.2	23
34	Optical signatures of energy gap in correlated Dirac fermions. Npj Quantum Materials, 2019, 4, .	1.8	16
35	Role of non-linear effects and standing waves in microwave spectroscopy: Corbino measurements on superconductors and VO ₂ . Review of Scientific Instruments, 2019, 90, 034704.	0.6	3
36	Double Layer Conducting Salts: (CNB-EDT-TTF) ₄ X, X = ClO ₄ ⁻ , ReO ₄ ⁻ , and SbF ₆ ⁻ ; Electrical Transport and Infrared Properties. Crystals, 2019, 9, 608.	1.0	5

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37	Characterizing dielectric properties of ultra-thin films using superconducting coplanar microwave resonators. <i>Review of Scientific Instruments</i> , 2019, 90, 114701.	0.6	4
38	Quantum Electric Dipole Lattice. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2018, 39, 799-815.	1.2	8
39	Electrodynamics of quantum spin liquids. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 203001.	0.7	19
40	Microscopic nature of the asymmetric hysteresis in the insulator-metal transition of VO ₂ revealed by spectroscopic ellipsometry. <i>Applied Physics Letters</i> , 2018, 113, 201906.	1.5	9
41	Free-carrier dynamics in Au ₂ Pb probed by optical conductivity measurements. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 485403.	0.7	7
42	Impedance spectroscopy and equivalent circuits of metal-dielectric composites around the percolation threshold. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	10
43	Internal strain tunes electronic correlations on the nanoscale. <i>Science Advances</i> , 2018, 4, eaau9123.	4.7	24
44	Advances in Organic Conductors and Superconductors. <i>Crystals</i> , 2018, 8, 332.	1.0	8
45	Near-infrared optical investigations of snow, ice, and water layers on diffuse reflecting surfaces. <i>Review of Scientific Instruments</i> , 2018, 89, 123106.	0.6	1
46	Superconducting coplanar microwave resonators with operating frequencies up to 50 GHz. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 465301.	1.3	10
47	Pressure cell for radio-frequency dielectric measurements at low temperatures. <i>Review of Scientific Instruments</i> , 2018, 89, 054708.	0.6	6
48	Quantum spin liquids unveil the genuine Mott state. <i>Nature Materials</i> , 2018, 17, 773-777.	13.3	61
49	Tuning the second harmonic generation of self-generated metallic islands. <i>AIP Advances</i> , 2018, 8, 075012.	0.6	2
50	Structural and Electronic Properties of (TMTTF) ₂ X Salts with Tetrahedral Anions. <i>Crystals</i> , 2018, 8, 121.	1.0	17
51	Electrodynamics in Organic Dimer Insulators Close to Mott Critical Point. <i>Crystals</i> , 2018, 8, 190.	1.0	17
52	Molecular Dynamics at Electrical- and Optical-Driven Phase Transitions: Time-Resolved Infrared Studies Using Fourier-Transform Spectrometers. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2017, 38, 104-123.	1.2	4
53	Flat Optical Conductivity in ZrSiS due to Two-Dimensional Dirac Bands. <i>Physical Review Letters</i> , 2017, 119, 187401.	2.9	68
54	Light-Induced Current Oscillations in the Charge-Ordered State of (TMTTF) ₂ SbF ₆ . <i>Crystals</i> , 2017, 7, 278.	1.0	3

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55	Infrared Investigations of the Neutral-Ionic Phase Transition in TTF-CA and Its Dynamics. Crystals, 2017, 7, 17.	1.0	15
56	Torque-Detected Electron Spin Resonance as a Tool to Investigate Magnetic Anisotropy in Molecular Nanomagnets. Magnetochemistry, 2016, 2, 25.	1.0	5
57	The classical and quantum dynamics of molecular spins on graphene. Nature Materials, 2016, 15, 164-168.	13.3	109
58	The Higgs mode in disordered superconductors close to a quantum phase transition. Nature Physics, 2015, 11, 188-192.	6.5	137
59	ESR studies on the spin-liquid candidate $\hat{\rho}$ -(BEDT-TTF) $_2$ Cu $_2$ (CN) $_3$: Anomalous response below T=8 K. Physica B: Condensed Matter, 2015, 460, 211-213.	1.3	12
60	Pressure-Dependent Relaxation in the Photoexcited Mott Insulator $\text{ET} \times \text{F}_2\text{CNQ}$. Influence of Hopping and Correlations on Quasiparticle Recombination Rates. Physical Review Letters, 2014, 112, 117801.	2.9	58
61	Electrodynamics of the Superconducting State in Ultra-Thin Films at THz Frequencies. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 269-280.	2.0	52
62	Universal sheet resistance and revised phase diagram of the cuprate high-temperature superconductors. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12235-12240.	3.3	142
63	Quantum Behavior of Water Molecules Confined to Nanocavities in Gemstones. Journal of Physical Chemistry Letters, 2013, 4, 2015-2020.	2.1	54
64	Superconductivity. Physical Review Letters, 2013, 110, 237002. Microwave spectroscopy on heavy f -fermion systems: Probing the dynamics of charges and magnetic moments. Physica Status Solidi (B): Basic Research, 2013, 250, 439-449.	2.9	60
65	Comprehensive Optical Investigations of Charge Order in Organic Chain Compounds (TMTTF) $_2$ X. Crystals, 2012, 2, 528-578.	1.0	65
66	Electronic and magnetic studies of. Physica B: Condensed Matter, 2012, 407, 1689-1691.	1.3	15
67	Charge-density fluctuations probed by vibronic modes of K $_0.3$ MoO $_3$. Physica B: Condensed Matter, 2012, 407, 1823-1826.	1.3	7
68	Quantum criticality in organic conductors? Fermi liquid versus non-Fermi-liquid behaviour. Journal of Physics Condensed Matter, 2011, 23, 293201.	0.7	53
69	Periodic Nanostructures: Spatial Dispersion Mimics Chirality. Physical Review Letters, 2011, 106, 185501.	2.9	56
70	Electrodynamics of correlated electron materials. Reviews of Modern Physics, 2011, 83, 471-541.	16.4	633
71	Looking at the superconducting gap of iron pnictides. Journal of Physics and Chemistry of Solids, 2011, 72, 514-518.	1.9	9

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73	Collective charge-order excitations. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, S589-S591.	0.6	10
74	Disentangling the conductivity spectra of two-dimensional organic conductors. <i>Physica B: Condensed Matter</i> , 2009, 404, 541-544.	1.3	16
75	Polyoxometalates: Fascinating structures, unique magnetic properties. <i>Coordination Chemistry Reviews</i> , 2009, 253, 2315-2327.	9.5	508
76	How Holes Can Obscure the View: Suppressed Transmission through an Ultrathin Metal Film by a Subwavelength Hole Array. <i>Physical Review Letters</i> , 2009, 103, 203901.	2.9	139
77	Kramers-Kronig-consistent optical functions of anisotropic crystals: generalized spectroscopic ellipsometry on pentacene. <i>Optics Express</i> , 2008, 16, 19770.	1.7	114
78	Direct Observation of Quantum Coherence in Single-Molecule Magnets. <i>Physical Review Letters</i> , 2008, 101, 147203.	2.9	178
79	Metal-Oxide-Based Nucleation Process under Confined Conditions: Two Mixed-Valence V6-Type Aggregates Closing the W48 Wheel-Type Cluster Cavities. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4477-4480.	7.2	106
80	Extending the $\{(Mo)Mo_5\}12M30$ Capsule Keplerate Sequence: A $\{Cr_{30}\}$ Cluster of $S=3/2$ Metal Centers with a $\{Na(H_2O)_{12}\}$ Encapsulate. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6106-6110.	7.2	141
81	Ordering phenomena in quasi-one-dimensional organic conductors. <i>Die Naturwissenschaften</i> , 2007, 94, 527-541.	0.6	72
82	The spin-ladder and spin-chain system $(La,Y,Sr,Ca)_{14}Cu_{24}O_{41}$: Electronic phases, charge and spin dynamics. <i>Physics Reports</i> , 2006, 428, 169-258.	10.3	96
83	Verifying the Drude response. <i>Annalen Der Physik</i> , 2006, 15, 535-544.	0.9	62
84	Infrared spectroscopy on the charge accumulation layer in rubrene single crystals. <i>Applied Physics Letters</i> , 2006, 89, 182103.	1.5	45
85	Far-infrared spectra of amino acids. <i>Chemical Physics</i> , 2005, 316, 61-71.	0.9	100
86	Extremely slow Drude relaxation of correlated electrons. <i>Nature</i> , 2005, 438, 1135-1137.	13.7	95
87	Evidence of charge ordering in the electronic spectra of two-dimensional organic conductors. <i>Physica B: Condensed Matter</i> , 2005, 359-361, 454-456.	1.3	3
88	Terahertz BWO-Spectroscopy. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2005, 26, 1217-1240.	0.6	152
89	Highly tunable photonic crystal filter for the terahertz range. <i>Optics Letters</i> , 2005, 30, 549.	1.7	127
90	Circular-Polarization-Dependent Study of the Microwave Photoconductivity in a Two-Dimensional Electron System. <i>Physical Review Letters</i> , 2005, 95, 116804.	2.9	186

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91	Loss of coherence in Ce _{1-x} La _x Pd ₃ studied by high-frequency transport. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E105-E106.	1.0	2
92	Optical Properties of Two-Dimensional Organic Conductors: Signatures of Charge Ordering and Correlation Effects. Chemical Reviews, 2004, 104, 5689-5716.	23.0	170
93	Spin-charge separation in quasi one-dimensional organic conductors. Die Naturwissenschaften, 2003, 90, 337-344.	0.6	40
94	Frequency-independent dielectric losses (1/fnoise) in PLZT relaxors at low temperatures. Journal of Physics Condensed Matter, 2003, 15, 6017-6030.	0.7	54
95	Infrared conductivity of the organic conductor $\hat{\pm}$ -(BEDT-TTF) ₂ KHg(SCN) ₄ . Synthetic Metals, 2003, 133-134, 91-94.	2.1	2
96	Frequency-domain magnetic resonance spectroscopy of molecular magnetic materials. Physical Chemistry Chemical Physics, 2003, 5, 3837-3843.	1.3	92
97	Proximity of the Layered Organic Conductors $\hat{\pm}$ -(BEDT-TTF) ₂ MHg(SCN) ₄ (M=K, NH ₄) to a Charge-Ordering Transition. Physical Review Letters, 2003, 90, 167002.	2.9	64
98	Suppression of the Charge-Density-Wave State in Sr ₁₄ Cu ₂₄ O ₄₁ by Calcium Doping. Physical Review Letters, 2003, 90, 257002.	2.9	62
99	Nature of Heavy Quasiparticles in Magnetically Ordered Heavy Fermions UPd ₂ Al ₃ and UPt ₃ . Physical Review Letters, 2002, 88, 186404.	2.9	52
100	Manifestation of multiband optical properties of MgB ₂ . Solid State Communications, 2002, 121, 479-484.	0.9	52
101	Evidence for spin-charge separation in quasi-one-dimensional organic conductors. Nature, 2002, 418, 614-617.	13.7	100
102	Polar phonons and central mode in antiferroelectric PbZrO ₃ ceramics. Journal of Physics Condensed Matter, 2001, 13, 2677-2689.	0.7	55
103	Transverse Josephson Plasma Mode in T [*] Cuprate Superconductors. Physical Review Letters, 2001, 86, 4140-4143.	2.9	43
104	Electron spin resonance studies on the organic linear-chain compounds (TMTCF) ₂ X [±] (C=S, Se; X=PF ₆ , AsF ₆ , ClO ₄ , Br). Physical Review B, 2000, 61, 511-521.	1.1	111
105	Correlation gap in the optical spectra of the two-dimensional organic metal (BEDT-TTF) ₄ [Ni(dto) ₂]. Physical Review B, 2000, 62, R14673-R14676.	1.1	11
106	Low-energy electrodynamics of SmB ₆ . Physical Review B, 1999, 59, 1808-1814.	1.1	130
107	On-chain electrodynamics of metallic (TMTSF) ₂ X salts: Observation of Tomonaga-Luttinger liquid response. Physical Review B, 1998, 58, 1261-1271.	1.1	197
108	Direct observation of the superconducting energy gap developing in the conductivity spectra of niobium. Physical Review B, 1998, 57, 14416-14421.	1.1	100

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109	Fast Dynamics of Glass-Forming Glycerol Studied by Dielectric Spectroscopy. Physical Review Letters, 1996, 77, 318-321.	2.9	189
110	Direct Observation of the Spin-Density-Wave Gap in(TMTSF)2PF6. Physical Review Letters, 1996, 76, 3838-3841.	2.9	77
111	Deviations from Drude Response in Low-Dimensional Metals: Electrodynamics of the Metallic State of (TMTSF)2PF6. Physical Review Letters, 1996, 77, 398-401.	2.9	115
112	Fluctuation effects on the electrodynamics of quasi-one-dimensional conductors above the charge-density-wave transition. Physical Review B, 1995, 52, 5643-5652.	1.1	60
113	Optical Evidence of Anderson-Mott Localization in FeSi. Europhysics Letters, 1994, 28, 341-346.	0.7	61
114	Charge-density-wave paraconductivity inK0.3MoO3. Physical Review Letters, 1994, 73, 308-311.	2.9	35
115	Electrodynamics of the organic superconductorsinebreak \hat{I}^{\pm} -(BEDT-TTF)2Cu(NCS)2and \hat{I}^{\pm} -(BEDT-TTF)2Cu[N(CN)2]Br. Physical Review B, 1994, 50, 13603-13615.	1.1	102
116	Field and frequency dependent transport in the two-dimensional organic conductor \hat{I}^{\pm} -(BEDT-TTF)2I3. Journal De Physique, I, 1994, 4, 579-594.	1.2	46
117	Microwave cavity perturbation technique: Part I: Principles. Journal of Infrared, Millimeter and Terahertz Waves, 1993, 14, 2423-2457.	0.6	219
118	Microwave cavity perturbation technique: Part II: Experimental scheme. Journal of Infrared, Millimeter and Terahertz Waves, 1993, 14, 2459-2487.	0.6	104
119	Microwave cavity perturbation technique: Part III: Applications. Journal of Infrared, Millimeter and Terahertz Waves, 1993, 14, 2489-2517.	0.6	84
120	Studies in fiber guided excimer laser surgery for cutting and drilling bone and meniscus. Lasers in Surgery and Medicine, 1991, 11, 569-579.	1.1	35
121	Multi-€Center Magnon Excitations Open the Entire Brillouin Zone to Terahertz Magnetometry of Quantum Magnets. Advanced Quantum Technologies, 0, , 2200023.	1.8	2