Martin Dressel

List of Publications by Year
in descending order

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121	6,770	41344	60623
papers	citations	49 h-index	81 g-index

122	122	122	7271
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In Vitro Comparison of Two Electromagnetic Shockwave Generators: Low-Pressure Wide Focus vs High-Pressure Small Focusâ€" Impact on Initial Stone Fragmentation and Final Stone Comminution. Journal of Endourology, 2022, 36, 266-272.	2.1	1
2	Single-particle and collective excitations of polar water molecules confined in nano-pores within a cordierite crystal lattice. Physical Chemistry Chemical Physics, 2022, 24, 6890-6904.	2.8	8
3	Distinction of charge transfer and Frenkel excitons in pentacene traced via infrared spectroscopy. Journal of Materials Chemistry C, 2022, 10, 5582-5589.	5.5	3
4	Nodal Semimetals: A Survey on Optical Conductivity. Physica Status Solidi (B): Basic Research, 2021, 258, 2000027.	1.5	18
5	Chemical tuning of molecular quantum materials Î²-[(BEDT-TTF)1â^'x(BEDT-STF)x]2Cu2(CN)3: from the Mott-insulating quantum spin liquid to metallic Fermi liquid. Journal of Materials Chemistry C, 2021, 9, 10841-10850.	5.5	8
6	Spectroscopic trace of the Lifshitz transition and multivalley activation in thermoelectric SnSe under high pressure. NPG Asia Materials, 2021, 13, .	7.9	8
7	Phase coexistence at the first-order Mott transition revealed by pressure-dependent dielectric spectroscopy of <mml:math		

#	Article	IF	Citations
19	Deuteration Effects on the Transport Properties of (TMTTF)2X Salts. Crystals, 2020, 10, 1085.	2.2	4
20	Microwave probing of bulk dielectrics using superconducting coplanar resonators in distant-flip-chip geometry. Review of Scientific Instruments, 2020, 91, 054702.	1.3	2
21	Wavelength dependence of the second harmonic generation of percolating gold thin films. Journal of Applied Physics, 2020, 127, 163101.	2.5	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.	7.8	17
23	Infrared Optical Conductivity of Bulk Bi2Te2Se. Crystals, 2020, 10, 553.	2.2	3
24	Cryogenic frequency-domain electron spin resonance spectrometer based on coplanar waveguides and field modulation. Review of Scientific Instruments, 2020, 91, 025106.	1.3	4
25	Pressure-Induced Neutralâ€“Ionic Phase Transition in the Mixed-Stack 2:1 Charge-Transfer Complex (EDT-TTF-I₂)₂TCNQF. Journal of Physical Chemistry C, 2020, 124, 5552-5558.	3.1	4
26	Sub-lattice of Jahn-Teller centers in hexaferrite crystal. Scientific Reports, 2020, 10, 7076.	3.3	24
27	Anomalously High Proton Conduction of Interfacial Water. Journal of Physical Chemistry Letters, 2020, 11, 3623-3628.	4.6	21
28	Optical conductivity of multifold fermions: The case of RhSi. Physical Review Research, 2020, 2, .	3.6	21
29	Interacting electron spins in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î¹</mml:mi><mml:mtext>â^’</mml:mtext><mml:msub><mml:mrow><mathvariant="normal">N</mml:mi><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mi>CN</mml:mi><mml:mo>)</mml:mo><Physical Review B, 2020, 102, .	3.2	4
30	Mueller matrix metrology: Depolarization reveals size distribution. Applied Physics Letters, 2019, 115, .	3.3	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)2ClO4. Journal of Physics Condensed Matter, 2019, 31, 155601.	1.8	0
33	Influence of chemical substitution on broadband dielectric response of barium-lead M-type hexaferrite. New Journal of Physics, 2019, 21, 063016.	2.9	23
34	Optical signatures of energy gap in correlated Dirac fermions. Npj Quantum Materials, 2019, 4, .	5.2	16
35	Role of non-linear effects and standing waves in microwave spectroscopy: Corbino measurements on superconductors and VO2. Review of Scientific Instruments, 2019, 90, 034704.	1.3	3
36	Double Layer Conducting Salts: (CNB-EDT-TTF)4X, X = ClO4â^’, ReO4â^’, and SbF6â^’; Electrical Transport and Infrared Properties. Crystals, 2019, 9, 608.	2.2	5

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37	Characterizing dielectric properties of ultra-thin films using superconducting coplanar microwave resonators. Review of Scientific Instruments, 2019, 90, 114701.	1.3	4
38	Quantum Electric Dipole Lattice. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 799-815.	2.2	8
39	Electrodynamics of quantum spin liquids. Journal of Physics Condensed Matter, 2018, 30, 203001.	1.8	19
40	Microscopic nature of the asymmetric hysteresis in the insulator-metal transition of VO2revealed by spectroscopic ellipsometry. Applied Physics Letters, 2018, 113, 201906.	3.3	9
41	Free-carrier dynamics in Au2Pb probed by optical conductivity measurements. Journal of Physics Condensed Matter, 2018, 30, 485403.	1.8	7
42	Impedance spectroscopy and equivalent circuits of metal-dielectric composites around the percolation threshold. Applied Physics Letters, 2018, 113, .	3.3	10
43	Internal strain tunes electronic correlations on the nanoscale. Science Advances, 2018, 4, eaau9123.	10.3	24
44	Advances in Organic Conductors and Superconductors. Crystals, 2018, 8, 332.	2.2	8
45	Near-infrared optical investigations of snow, ice, and water layers on diffuse reflecting surfaces. Review of Scientific Instruments, 2018, 89, 123106.	1.3	1
46	Superconducting coplanar microwave resonators with operating frequencies up to 50 GHz. Journal Physics D: Applied Physics, 2018, 51, 465301.	2.8	10
47	Pressure cell for radio-frequency dielectric measurements at low temperatures. Review of Scientific Instruments, 2018, 89, 054708.	1.3	6
48	Quantum spin liquids unveil the genuine Mott state. Nature Materials, 2018, 17, 773-777.	27.5	61
49	Tuning the second harmonic generation of self-generated metallic islands. AIP Advances, 2018, 8, 075012.	1.3	2
50	Structural and Electronic Properties of (TMTTF)2X Salts with Tetrahedral Anions. Crystals, 2018, 8, 121.	2.2	17
51	Electrodynamics in Organic Dimer Insulators Close to Mott Critical Point. Crystals, 2018, 8, 190.	2.2	17
52	Molecular Dynamics at Electrical- and Optical-Driven Phase Transitions: Time-Resolved Infrared Studies Using Fourier-Transform Spectrometers. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 104-123.	2.2	4
53	Flat Optical Conductivity in ZrSiS due to Two-Dimensional Dirac Bands. Physical Review Letters, 2017, 119, 187401.	7.8	68
54	Light-Induced Current Oscillations in the Charge-Ordered State of (TMTTF)2SbF6. Crystals, 2017, 7, 278.	2.2	3

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55	Infrared Investigations of the Neutral-Ionic Phase Transition in TTF-CA and Its Dynamics. Crystals, 2017, 7, 17.	2.2	15
56	Torque-Detected Electron Spin Resonance as a Tool to Investigate Magnetic Anisotropy in Molecular Nanomagnets. Magnetochemistry, 2016, 2, 25.	2.4	5
57	The classical and quantum dynamics of molecular spins on graphene. Nature Materials, 2016, 15, 164-168.	27.5	109
58	The Higgs mode in disordered superconductors close to a quantum phase transition. Nature Physics, 2015, 11, 188-192.	16.7	137
59	ESR studies on the spin-liquid candidate Îº-(BEDT-TTF)2Cu2(CN)3: Anomalous response below T=8 K. Physica B: Condensed Matter, 2015, 460, 211-213.	2.7	12
60	Pressure-Dependent Relaxation in the Photoexcited Mott Insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>ET</mml:mi><mml:mo>â€“</mml:mo><mml:msub><mml:mrow><mml:mi mathvariant="normal">F</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mi>TCNQ</mm	7.8	58
61	Influence of Hopping and Correlations on Quasiparticle Recombination Rates. Physical Review Letters, 2014, 112, 117801. Electrodynamics of the Superconducting State in Ultra-Thin Films at THz Frequencies. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 269-280.	3.1	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.	7.1	142
63	Quantum Behavior of Water Molecules Confined to Nanocavities in Gemstones. Journal of Physical Chemistry Letters, 2013, 4, 2015-2020.	4.6	54
64	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>EuFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mi>As</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:m	7.8	60
65	Superconductivity. Physical Review Letters, 2013, 110, 237002. Microwave spectroscopy on heavyâ€fermion systems: Probing the dynamics of charges and magnetic moments. Physica Status Solidi (B): Basic Research, 2013, 250, 439-449.	1.5	41
66	Comprehensive Optical Investigations of Charge Order in Organic Chain Compounds (TMTTF)2X. Crystals, 2012, 2, 528-578.	2.2	65
67	Electronic and magnetic studies of. Physica B: Condensed Matter, 2012, 407, 1689-1691.	2.7	15
68	Charge-density fluctuations probed by vibronic modes of K0.3MoO3. Physica B: Condensed Matter, 2012, 407, 1823-1826.	2.7	7
69	Quantum criticality in organic conductors? Fermi liquid versus non-Fermi-liquid behaviour. Journal of Physics Condensed Matter, 2011, 23, 293201.	1.8	53
70	Periodic Nanostructures: Spatial Dispersion Mimics Chirality. Physical Review Letters, 2011, 106, 185501.	7.8	56
71	Electrodynamics of correlated electron materials. Reviews of Modern Physics, 2011, 83, 471-541.	45.6	633
72	Looking at the superconducting gap of iron pnictides. Journal of Physics and Chemistry of Solids, 2011, 72, 514-518.	4.0	9

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73	Collective charge-order excitations. Physica C: Superconductivity and Its Applications, 2010, 470, S589-S591.	1.2	10
74	Disentangling the conductivity spectra of two-dimensional organic conductors. Physica B: Condensed Matter, 2009, 404, 541-544.	2.7	16
75	Polyoxometalates: Fascinating structures, unique magnetic properties. Coordination Chemistry Reviews, 2009, 253, 2315-2327.	18.8	508
76	How Holes Can Obscure the View: Suppressed Transmission through an Ultrathin Metal Film by a Subwavelength Hole Array. Physical Review Letters, 2009, 103, 203901.	7.8	139
77	Kramers-Kronig-consistent optical functions of anisotropic crystals: generalized spectroscopic ellipsometry on pentacene. Optics Express, 2008, 16, 19770.	3.4	114
78	Direct Observation of Quantum Coherence in Single-Molecule Magnets. Physical Review Letters, 2008, 101, 147203.	7.8	178
79	Metal-Oxide-Based Nucleation Process under Confined Conditions: Two Mixed-Valence V6-Type Aggregates Closing the W48 Wheel-Type Cluster Cavities. Angewandte Chemie - International Edition, 2007, 46, 4477-4480.	13.8	106
80	Extending the {(Mo)Mo5}12M30 Capsule Keplerate Sequence: A {Cr30} Cluster ofS=3/2 Metal Centers with a {Na(H2O)12} Encapsulate. Angewandte Chemie - International Edition, 2007, 46, 6106-6110.	13.8	141
81	Ordering phenomena in quasi-one-dimensional organic conductors. Die Naturwissenschaften, 2007, 94, 527-541.	1.6	72
82	The spin-ladder and spin-chain system (La,Y,Sr,Ca)14Cu24O41: Electronic phases, charge and spin dynamics. Physics Reports, 2006, 428, 169-258.	25.6	96
83	Verifying the Drude response. Annalen Der Physik, 2006, 15, 535-544.	2.4	62
84	Infrared spectroscopy on the charge accumulation layer in rubrene single crystals. Applied Physics Letters, 2006, 89, 182103.	3.3	45
85	Far-infrared spectra of amino acids. Chemical Physics, 2005, 316, 61-71.	1.9	100
86	Extremely slow Drude relaxation of correlated electrons. Nature, 2005, 438, 1135-1137.	27.8	95
87	Evidence of charge ordering in the electronic spectra of two-dimensional organic conductors. Physica B: Condensed Matter, 2005, 359-361, 454-456.	2.7	3
88	Terahertz BWO-Spectrosopy. Journal of Infrared, Millimeter and Terahertz Waves, 2005, 26, 1217-1240.	0.6	152
89	Highly tunable photonic crystal filter for the terahertz range. Optics Letters, 2005, 30, 549.	3.3	127
90	Circular-Polarization-Dependent Study of the Microwave Photoconductivity in a Two-Dimensional Electron System. Physical Review Letters, 2005, 95, 116804.	7.8	186

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91	Loss of coherence in Ce1â^'La Pd3 studied by high-frequency transport. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E105-E106.	2.3	2
92	Optical Properties of Two-Dimensional Organic Conductors: Signatures of Charge Ordering and Correlation Effects. Chemical Reviews, 2004, 104, 5689-5716.	47.7	170
93	Spin-charge separation in quasi one-dimensional organic conductors. Die Naturwissenschaften, 2003, 90, 337-344.	1.6	40
94	Frequency-independent dielectric losses (1/fnoise) in PLZT relaxors at low temperatures. Journal of Physics Condensed Matter, 2003, 15, 6017-6030.	1.8	54
95	Infrared conductivity of the organic conductor Î±-(BEDT-TTF)2KHg(SCN)4. Synthetic Metals, 2003, 133-134, 91-94.	3.9	2
96	Frequency-domain magnetic resonance spectroscopy of molecular magnetic materials. Physical Chemistry Chemical Physics, 2003, 5, 3837-3843.	2.8	92
97	Proximity of the Layered Organic ConductorsÎ±â^'(BEDTâ^'TTF)2MHg(SCN)4(M=K,NH4)to a Charge-Ordering Transition. Physical Review Letters, 2003, 90, 167002.	7.8	64
98	Suppression of the Charge-Density-Wave State inSr14Cu24O41by Calcium Doping. Physical Review Letters, 2003, 90, 257002.	7.8	62
99	Nature of Heavy Quasiparticles in Magnetically Ordered Heavy FermionsUPd2Al3andUPt3. Physical Review Letters, 2002, 88, 186404.	7.8	52
100	Manifestation of multiband optical properties of MgB2. Solid State Communications, 2002, 121, 479-484.	1.9	52
101	Evidence for spinâ€"charge separation in quasi-one-dimensional organic conductors. Nature, 2002, 418, 614-617.	27.8	100
102	Polar phonons and central mode in antiferroelectric PbZrO3ceramics. Journal of Physics Condensed Matter, 2001, 13, 2677-2689.	1.8	55
103	Transverse Josephson Plasma Mode inT*Cuprate Superconductors. Physical Review Letters, 2001, 86, 4140-4143.	7.8	43
104	Electron spin resonance studies on the organic linear-chain compounds(TMTCF)2Xâ€,(C=S,Se;X=PF6,AsF6,ClO4,Br). Physical Review B, 2000, 61, 511-521.	3.2	111
105	Correlation gap in the optical spectra of the two-dimensional organic metal(BEDTâ^'TTF)4[Ni(dto)2]. Physical Review B, 2000, 62, R14673-R14676.	3.2	11
106	Low-energy electrodynamics ofSmB6. Physical Review B, 1999, 59, 1808-1814.	3.2	130
107	On-chain electrodynamics of metallic(TMTSF)2Xsalts: Observation of Tomonaga-Luttinger liquid response. Physical Review B, 1998, 58, 1261-1271.	3.2	197
108	Direct observation of the superconducting energy gap developing in the conductivity spectra of niobium. Physical Review B, 1998, 57, 14416-14421.	3.2	100

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109	Fast Dynamics of Glass-Forming Glycerol Studied by Dielectric Spectroscopy. Physical Review Letters, 1996, 77, 318-321.	7.8	189
110	Direct Observation of the Spin-Density-Wave Gap in(TMTSF)2PF6. Physical Review Letters, 1996, 76, 3838-3841.	7.8	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.	7.8	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.	3.2	60
113	Optical Evidence of Anderson-Mott Localization in FeSi. Europhysics Letters, 1994, 28, 341-346.	2.0	61
114	Charge-density-wave paraconductivity inK0.3MoO3. Physical Review Letters, 1994, 73, 308-311.	7.8	35
115	Electrodynamics of the organic superconductorsinebreak Î²-(BEDT-TTF)2Cu(NCS)2and Î²-(BEDT-TTF)2Cu[N(CN)2]Br. Physical Review B, 1994, 50, 13603-13615.	3.2	102
116	Field and frequency dependent transport in the two-dimensional organic conductor Î±-(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.	2.1	35
121	Multiâ€Center Magnon Excitations Open the Entire Brillouin Zone to Terahertz Magnetometry of Quantum Magnets. Advanced Quantum Technologies, 0, , 2200023.	3.9	2