Christoph Gadermaier

List of Publications by Year
in descending order

80 papers	1,953 citations	331538 21 h-index	254106 43 g-index
80 all docs	80 docs citations	80 times ranked	3346 citing authors

#	Article	IF	Citations
1	Dynamics of Two Distinct Exciton Populations in Methyl-Functionalized Germanane. Nano Letters, 2022, 22, 1183-1189.	4.5	3
2	Spectrally Resolving the Phase and Amplitude of Coherent Phonons in the Charge Density Wave State of 1Tâ€TaSe₂. Advanced Optical Materials, 2022, 10, .	3.6	5
3	Phonon-Mediated Interlayer Charge Separation and Recombination in a MoSe₂/WSe₂ Heterostructure. Nano Letters, 2021, 21, 2165-2173.	4.5	46
4	Ultrafast Photophysics of 2D Semiconductors and Related Heterostructures. Trends in Chemistry, 2020, 2, 28-42.	4.4	34
5	Silica aerogels as hosting matrices for WS2 nanotubes and their optical characterization. Journal of Materials Science, 2020, 55, 7612-7623.	1.7	8
6	Monolayer black phosphorus by sequential wet-chemical surface oxidation. RSC Advances, 2019, 9, 3570-3576.	1.7	28
7	Ultrafast nonequilibrium dynamics of strongly coupled resonances in the intrinsic cavity of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">W</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> nanotubes. Physical Review Research, 2019, 1, .	1.3	11
8	Preparation of air-stable expandable MoS2 and rapid expansion by low temperature heating and electron beam irradiation. Materials Letters, 2018, 218, 229-232.	1.3	1
9	Charge trapping and coalescence dynamics in few layer MoS ₂. 2D Materials, 2018, 5, 015011.	2.0	20
10	Unconventional electroabsorption in monolayer MoS ₂. 2D Materials, 2017, 4, 021005.	2.0	19
11	Functionalization of transparent conductive oxide electrode for TiO₂-free perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 11882-11893.	5.2	56
12	Field-induced charge separation dynamics in monolayer MoS 2. 2D Materials, 2017, 4, 035017.	2.0	6
13	Photoluminescence from Liquidâ€Exfoliated WS₂ Monomers in Poly(Vinyl Alcohol) Polymer Composites. Advanced Functional Materials, 2016, 26, 1028-1039.	7.8	73
14	Thiol click chemistry on gold-decorated MoS₂: elastomer composites and structural phase transitions. Nanoscale, 2016, 8, 10016-10020.	2.8	3
15	Exciton and charge carrier dynamics in few-layer WS₂. Nanoscale, 2016, 8, 5428-5434.	2.8	61
16	Production of Highly Monolayer Enriched Dispersions of Liquid-Exfoliated Nanosheets by Liquid Cascade Centrifugation. ACS Nano, 2016, 10, 1589-1601.	7.3	365
17	Charge Photogeneration in Fewâ€Layer MoS₂. Advanced Functional Materials, 2015, 25, 3351-3358.	7.8	76
18	Femtosecond spectroscopy on MoS2flakes from liquid exfoliation: surfactant independent exciton dynamics. Journal of Nanophotonics, 2015, 10, 012508.	0.4	5

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19	Unlocking the Functional Properties in One-Dimensional MoSI Cluster Polymers by Doping and Photoinduced Charge Transfer. Nano Letters, 2015, 15, 813-818.	4.5	10
20	Strain-Induced Enhancement of the Electron Energy Relaxation in Strongly Correlated Superconductors. Physical Review X, 2014, 4, .	2.8	13
21	Mo6S9â˜'xIx nanowires as additives for enhanced organic solar cell performance. Solar Energy Materials and Solar Cells, 2014, 127, 63-66.	3.0	19
22	On determining the strength of the electron-phonon interaction from electron energy relaxation times. Journal of Applied Physics, 2012, 111, 112605.	1.1	7
23	Electron-phonon coupling in cuprate high-temperature superconductors determined from electron relaxation rates. , 2011, , .		0
24	Electron relaxation in metals and high-Tc superconductors on the 10-fs timescale. , 2011, , .		2
25	Mo₆S₃I₆molecular wires: from one-dimensional electron fluids to a self-organised critical self-assembled network. Journal of Physics: Conference Series, 2010, 248, 012032.	0.3	1
26	Mo6S3I6 molecular wires: From a one-dimensional quantum fluid to self-organized critical self-assembled networks. Physica Status Solidi (B): Basic Research, 2010, 247, 3014-3017.	0.7	0
27	Electron-Phonon Coupling in High-Temperature Cuprate Superconductors Determined from Electron Relaxation Rates. Physical Review Letters, 2010, 105, 257001.	2.9	131
28	Large spectral shifts of electronic transitions in MoSI molecular wire dispersions as a function of bundle diameter. Synthetic Metals, 2010, 160, 2389-2392.	2.1	2
29	Electron-Phonon Coupling in Cuprate High-Temperature Superconductors Determined from Femtosecond Electron Relaxation Rates. , 2010, , .		1
30	Coherent Phonon Dynamics in Semiconducting Carbon Nanotubes: A Quantitative Study of Electron-Phonon Coupling. Physical Review Letters, 2009, 102, 127401.	2.9	89
31	Distinct Pseudogap and Quasiparticle Relaxation Dynamics in the Superconducting State of Nearly Optimally Doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SmFeAsO</mml:mi><mml:mn>0.8</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">F</mml:mi><mml:mn>0.2</mml:mn></mml:msub></mml:math>Single Crystals. Physical Review Letters, 2009, 102, 117002.	2.9	85
32	Photoinduced Quasiparticle Relaxation Dynamics inÂNear-optimally Doped SmFeAsO0.8F0.2 Single Crystals. Journal of Superconductivity and Novel Magnetism, 2009, 22, 575-578.	0.8	6
33	Femtosecond pumpâ€“probe spectroscopy on MoSI nanowires. Physica Status Solidi (B): Basic Research, 2008, 245, 2098-2101.	0.7	1
34	Stark Spectroscopy of Excited-State Transitions in a Conjugated Polymer. Physical Review Letters, 2008, 100, 057401.	2.9	6
35	Electric field effect on energy transfer monitored by bimolecular annihilation. Physical Review B, 2008, 78, .	1.1	1
36	Equilibrium and non-equilibrium spectroscopy on Mo6S9-xIxnanowires. Journal of Physics: Conference Series, 2008, 129, 012043.	0.3	0

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37	Equilibrium and nonâ€equilibrium optical properties of MoSI nanowires. Physica Status Solidi (B): Basic Research, 2007, 244, 4152-4156.	0.7	2
38	Long-Lived Charged States in Single-Walled Carbon Nanotubes. Nano Letters, 2006, 6, 301-305.	4.5	24
39	Long lived charged states in single walled carbon nanotubes. , 2006, , .		0
40	Ultrafast Photophysics in Conjugated Polymers. , 2006, , 129-151.		0
41	The Origin of the Green Emission Band in Polyfluorene Type Polymers. , 2006, , 153-181.		0
42	Solution Processed Conjugated Polymer Multilayer Structures for Light Emitting Devices. Japanese Journal of Applied Physics, 2005, 44, 479-484.	0.8	18
43	Two-step field-induced singlet dissociation in a fluorene trimer. Physical Review B, 2005, 71, .	1.1	22
44	Comprehensive photophysical studies of polyfluorenes containing on-chain emissive defects. Physical Review B, 2005, 72, .	1.1	22
45	Dynamics of higher photoexcited states in m-LPPP probed with sub-20 fs time resolution. Chemical Physics Letters, 2004, 384, 251-255.	1.2	19
46	Photophysics of conjugated polymers: the contribution of ultrafast spectroscopy. Physica Status Solidi A, 2004, 201, 1116-1131.	1.7	39
47	Emission properties of pristine and oxidatively degraded polyfluorene type polymers. Physica Status Solidi A, 2004, 201, 1132-1151.	1.7	70
48	The photophysics of organic semiconducting nanospheres: a comprehensive study. Chemical Physics Letters, 2004, 389, 7-13.	1.2	17
49	Degradation of polyfluorene-type polymers: interface and bulk-related defects. , 2004, , .		2
50	Materials for polymer electronics applicationsâ€“ semiconducting polymer thin films and nanoparticles. Macromolecular Symposia, 2004, 212, 83-92.	0.4	14
51	Directly imprinted laser feedback structures in electroactive conjugated polymers using soft lithography. , 2004, 5464, 261.		0
52	Ultrafast studies of organic polymers. , 2004, , .		0
53	Organic Light-Emitting Devices Fabricated from Semiconducting Nanospheres. Advanced Materials, 2003, 15, 800-804.	11.1	115
54	Imprinted Conjugated Polymer Laser. Advanced Materials, 2003, 15, 1165-1167.	11.1	92

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55	Time resolved charge carrier generation from higher lying excited states in conjugated polymers. Synthetic Metals, 2003, 137, 1457-1458.	2.1	0
56	Double-excitation dynamics in m-LPPP probed with sub-20 fs time resolution. Synthetic Metals, 2003, 139, 605-607.	2.1	1
57	A detailed study of the photophysics of organic semiconducting nanospheres. Synthetic Metals, 2003, 139, 609-612.	2.1	4
58	Ultrafast electric field-assisted pump-probe spectroscopy in poly(9,9-dioctylfluorene) light-emitting diodes. Synthetic Metals, 2003, 139, 663-666.	2.1	1
59	Photophysics of poly(fluorenes) with dendronic side chains. Synthetic Metals, 2003, 139, 847-849.	2.1	21
60	The influence of keto defects on photoexcitation dynamics in polyfluorene. Synthetic Metals, 2003, 139, 851-854.	2.1	18
61	Charge carrier photogeneration in oligo(phenylenevinylene) thin films:â€ƒA quantitative study. Physical Review B, 2003, 68, .	1.1	17
62	Understanding Fundamental Processes in Poly(9,9-Dioctylfluorene) Light-Emitting Diodes via Ultrafast Electric-Field-Assisted Pump-Probe Spectroscopy. Physical Review Letters, 2003, 90, 247402.	2.9	66
63	Double-Excitation Dynamics in m-LPPP probed with sub-20 fs Time Resolution. Materials Research Society Symposia Proceedings, 2003, 771, 561.	0.1	0
64	Time-Resolved Charge Carrier Generation from Higher Lying Excited States in Conjugated Polymers. Physical Review Letters, 2002, 89, 117402.	2.9	67
65	Ultrafast photoexcitation dynamics in a ladder-type oligophenyl. Physical Review B, 2002, 66, .	1.1	13
66	DFB Structures in Electroactive Conjugated Polymers realized by Soft Lithography. Materials Research Society Symposia Proceedings, 2002, 739, 371.	0.1	0
67	Organic Light Emitting Devices Fabricated from Semiconducting Nanospheres. Materials Research Society Symposia Proceedings, 2002, 738, 8101.	0.1	0
68	Nonlinear guided propagation of few-optical-cycle laser pulses with arbitrary polarization states. Physical Review A, 2002, 66, .	1.0	12
69	Photophysics of conjugated polymers: the contribution of ultrafast spectroscopy. Journal of Physics Condensed Matter, 2002, 14, 9785-9802.	0.7	13
70	Excitation energy migration in highly emissive semiconducting polymer blends probed by photoluminescence detected magnetic resonance. Synthetic Metals, 2001, 116, 185-188.	2.1	0
71	Ultrafast photoexcitation dynamics in a ladder-type oligophenyl. Synthetic Metals, 2001, 119, 609-610.	2.1	1
72	Stimulated emission dynamics in a hexacatenar liquid crystal. Synthetic Metals, 2001, 121, 1323-1324.	2.1	7

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73	Tunable Optical Gain from Soluble Thiophene-Based Oligomers. Materials Research Society Symposia Proceedings, 2001, 665, 1.	0.1	3
74	Amplified spontaneous emission from a soluble thiophene-based oligomer. Applied Physics Letters, 2001, 78, 2679-2681.	1.5	29
75	Ultrafast energy and electron transfer in donor-acceptor molecules for photovoltaics. , 2001, , .		0
76	The H2-phase of the lyotropic liquid crystal sodium 3,4,5-tris(omega-acryloyloxyundecyloxy)benzoate. Liquid Crystals, 2000, 27, 407-411.	0.9	9
77	Optical characterisation of poly-2,5-diheptyl-1,4-phenylene-alt-2,5-thienylene. Synthetic Metals, 2000, 111-112, 519-522.	2.1	5
78	Photophysical studies on nanostructured PPV-systems. Synthetic Metals, 2000, 111-112, 523-526.	2.1	3
79	Kinetics of singlet and triplet excitons in a wide-band-gap copolymer. Physical Review B, 2000, 61, 1859-1865.	1.1	13
80	Charge carrier generation in a conjugated polymer studied via ultrafast pump-push-probe experiments. , 0, , .		0