

Lars Gundlach

List of Publications by Year in descending order

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56
papers

1,026
citations

430874

18
h-index

454955

30
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56
all docs

56
docs citations

56
times ranked

1485
citing authors

#	ARTICLE	IF	CITATIONS
1	InAlN/GaN HEMT on Si With $f_{max} = 270$ GHz. IEEE Transactions on Electron Devices, 2021, 68, 994-999.	3.0	22
2	Conformational and Binding Effects on Interfacial Electron Transfer from Dual-Linker Sensitizers. Journal of Physical Chemistry C, 2021, 125, 8667-8676.	3.1	4
3	Light and microwave driven spin pumping across FeGaBi/BiSb interface. Physical Review Materials, 2021, 5, .	2.4	11
4	Ti:Sapphire laser irradiation of graphene oxide film in order to tune its structural, chemical and electrical properties: Patterning and characterizations. Applied Surface Science, 2020, 500, 144053.	6.1	16
5	Synthesis and Properties of Perylene-Bridge-Anchor Chromophoric Compounds. Journal of Physical Chemistry A, 2020, 124, 6330-6343.	2.5	7
6	Optical contrast calculations to quantify modifications induced on trilayer graphene by Ti:Sapphire laser thinning process. Applied Surface Science, 2020, 533, 147472.	6.1	0
7	A versatile strategy for controlled assembly of plasmonic metal/semiconductor hemispherical nano-heterostructure arrays. Nanoscale, 2020, 12, 17530-17537.	5.6	3
8	Enhancement-/Depletion-Mode TiO ₂ Thin-Film Transistors via O ₂ /N ₂ Preannealing. IEEE Transactions on Electron Devices, 2020, 67, 2346-2351.	3.0	7
9	Femtosecond Luminescence Imaging for Single Nanoparticle Characterization. Journal of Physical Chemistry A, 2020, 124, 4583-4593.	2.5	4
10	Improving the electrical performance of monolayer top-gated MoS ₂ transistors by post bis(trifluoromethane) sulfonamide treatment. Journal Physics D: Applied Physics, 2020, 53, 415106.	2.8	5
11	Ultrafast Formation of the Charge Transfer State of Prodan Reveals Unique Aspects of the Chromophore Environment. Journal of Physical Chemistry B, 2020, 124, 2643-2651.	2.6	11
12	Electron-phonon coupling in few layer WS ₂ measured by pump-degenerate four-wave mixing. , 2020, , .		0
13	Electronic-Vibrational Coupling and Electron Transfer. Journal of Physical Chemistry C, 2019, 123, 23760-23772.	3.1	9
14	Energy Band Architecture of a Hierarchical ZnO/Au/Cu _x O Nanoforest by Mimicking Natural Superhydrophobic Surfaces. ACS Applied Materials & Interfaces, 2019, 11, 40490-40502.	8.0	13
15	Vibronic Effects in the Ultrafast Interfacial Electron Transfer of Perylene-Sensitized TiO ₂ Surfaces. Journal of Physical Chemistry C, 2019, 123, 12599-12607.	3.1	15
16	Morphology-Preserving Sensitization of ZnO Nanorod Surfaces via Click-Chemistry. Journal of Physical Chemistry Letters, 2018, 9, 768-772.	4.6	10
17	Vibrational Spectroscopy on Photoexcited Dye-Sensitized Films via Pump-Degenerate Four-Wave Mixing. Journal of Physical Chemistry A, 2018, 122, 2039-2045.	2.5	8
18	Evaluating the Mechanisms of Light-Triggered siRNA Release from Nanoshells for Temporal Control Over Gene Regulation. Nano Letters, 2018, 18, 3565-3570.	9.1	49

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19	Synthesis and Characterization of ZnO/CuO Vertically Aligned Hierarchical Tree-like Nanostructure. <i>Langmuir</i> , 2018, 34, 961-969.	3.5	38
20	Evaluating Single Layer Graphene Micropatterns Induced by Ti:Sa Laser Irradiation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800334.	1.8	1
21	Comparison of ZnO surface modification with gas-phase propiolic acid at high and medium vacuum conditions. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018, 36, 041404.	2.1	3
22	Analyte-induced spectral filtering in femtosecond transient absorption spectroscopy. <i>Journal of Luminescence</i> , 2017, 187, 92-95.	3.1	1
23	Growth and characterization of ErAs:GaBi _x As _{1-x} . <i>Applied Physics Letters</i> , 2016, 109, .	3.3	9
24	Efficient Z-scheme charge separation in novel vertically aligned ZnO/CdSSe nanotrees. <i>Nanotechnology</i> , 2016, 27, 135401.	2.6	11
25	Ultraviolet femtosecond Kerr-gated wide-field fluorescence microscopy. <i>Optics Letters</i> , 2016, 41, 2462.	3.3	18
26	Hot Hole Hopping in a Polyoxotitanate Cluster Terminated with Catechol Electron Donors. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20006-20015.	3.1	14
27	Ultrafast Relaxation Dynamics of Photoexcited Zinc-Porphyrin: Electronic-Vibrational Coupling. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3151-3156.	4.6	24
28	Ultrafast dynamics of single ZnO nanowires using ultraviolet femtosecond Kerr-gated wide-field fluorescence microscopy. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
29	Synthesis of Hierarchical ZnO/CdSSe Heterostructure Nanotrees. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	0
30	Heterogeneous Electron-Transfer Dynamics through Dipole-Bridge Groups. <i>Journal of Physical Chemistry C</i> , 2016, 120, 48-55.	3.1	21
31	Ultrafast Probe of Carrier Diffusion and Nongeminate Processes in a Single CdSSe Nanowire. <i>Journal of Spectroscopy</i> , 2015, 2015, 1-6.	1.3	3
32	Electronic state dependence of heterogeneous electron transfer: injection from the S ₁ and S ₂ state of phlorin into TiO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7914-7923.	2.8	16
33	Spatial variation in carrier dynamics along a single CdSSe nanowire. <i>Chemical Physics</i> , 2014, 442, 128-131.	1.9	8
34	Photoinduced Ultrafast Heterogeneous Electron Transfer at Molecule-Semiconductor Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3498-3507.	4.6	26
35	Redox Processes at Semiconductors-Gerischer Model and Beyond. , 2014, , 1786-1798.		4
36	Vibrational State Dependence of Interfacial Electron Transfer: Hot Electron Injection from the S ₁ State of Azulene into TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20485-20493.	3.1	19

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37	Excitons and Excess Electrons in Nanometer Size Molecular Polyoxotitanate Clusters: Electronic Spectra, Exciton Dynamics, and Surface States. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4422-4430.	2.6	11
38	Dynamics of ultrafast photoinduced heterogeneous electron transfer, implications for recent solar energy conversion scenarios. <i>Chemical Physics Letters</i> , 2012, 545, 35-39.	2.6	11
39	Fluorescence Enhancement of Di- <i>p</i> -tolyl Viologen by Complexation in Cucurbit[7]uril. <i>Journal of the American Chemical Society</i> , 2012, 134, 3358-3366.	13.7	109
40	Ultrafast Photoinduced Electron Transfer at Electrodes: The General Case of a Heterogeneous Electron Transfer Reaction. <i>ChemPhysChem</i> , 2012, 13, 2877-2881.	2.1	14
41	Efficiency and temporal response of crystalline Kerr media in collinear optical Kerr gating. <i>Optics Letters</i> , 2011, 36, 2904.	3.3	10
42	Test of theoretical models for ultrafast heterogeneous electron transfer with femtosecond two-photon photoemission data. <i>Journal of Chemical Sciences</i> , 2009, 121, 561-574.	1.5	22
43	Ultrafast Spatially Resolved Carrier Dynamics in Single CdSSe Nanobelts. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12162-12166.	3.1	26
44	Ultrafast Wide-Field Fluorescence Microscopy. <i>Springer Series in Chemical Physics</i> , 2009, , 720-722.	0.2	0
45	Femtosecond Kerr-gated wide-field fluorescence microscopy. <i>Optics Letters</i> , 2008, 33, 992.	3.3	41
46	Photoinduced ultrafast interfacial electron transfer probed with two-photon-photoemission. , 2007, , .		0
47	Pathway-Dependent Electron Transfer for Rod-Shaped Perylene-Derived Molecules Adsorbed in Nanometer-Size TiO ₂ Cavities. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13586-13594.	3.1	24
48	Time-resolved electron transfer from the excited singlet state of anchored perylene into Ag(110). <i>Chemical Physics Letters</i> , 2007, 449, 82-85.	2.6	6
49	Ultrafast interfacial electron transfer from the excited state of anchored molecules into a semiconductor. <i>Progress in Surface Science</i> , 2007, 82, 355-377.	8.3	76
50	Dynamics of photoinduced electron transfer from adsorbed molecules into solids. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 88, 481-495.	2.3	22
51	Role of Molecular Anchor Groups in Molecule-to-Semiconductor Electron Transfer. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25383-25391.	2.6	102
52	Sub-20 fs visible pulses with 750 nJ energy from a 100 kHz noncollinear optical parametric amplifier. <i>Optics Letters</i> , 2006, 31, 1289.	3.3	56
53	Femtosecond two-photon photoemission probing electron injection from the excited singlet state of perylene attached to a long rigid tripod anchor-cum-spacer on rutile TiO ₂ (110). <i>Research on Chemical Intermediates</i> , 2005, 31, 39-46.	2.7	24
54	Femtosecond two-photon photoemission at 150 kHz utilizing two noncollinear optical parametric amplifiers for measuring ultrafast electron dynamics. <i>Applied Physics B: Lasers and Optics</i> , 2005, 80, 727-731.	2.2	30

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55	Dynamics of electron scattering between bulk states and the C 1 surface state of InP(100). Applied Physics A: Materials Science and Processing, 2004, 78, 239-239.	2.3	16
56	Two-photon photoemission as a probe of unoccupied and occupied surface states of InP(100). Journal of Crystal Growth, 2003, 248, 206-210.	1.5	15