

# 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  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1485  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Evaluating the Mechanisms of Light-Triggered siRNA Release from Nanoshells for Temporal Control Over Gene Regulation. <i>Nano Letters</i> , 2018, 18, 3565-3570.	9.1	49
6	Femtosecond Kerr-gated wide-field fluorescence microscopy. <i>Optics Letters</i> , 2008, 33, 992.	3.3	41
7	Synthesis and Characterization of ZnO/CuO Vertically Aligned Hierarchical Tree-like Nanostructure. <i>Langmuir</i> , 2018, 34, 961-969.	3.5	38
8	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
9	Ultrafast Spatially Resolved Carrier Dynamics in Single CdSSe Nanobelts. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12162-12166.	3.1	26
10	Photoinduced Ultrafast Heterogeneous Electron Transfer at Molecule-Semiconductor Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3498-3507.	4.6	26
11	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 <sub>2</sub> (110). <i>Research on Chemical Intermediates</i> , 2005, 31, 39-46.	2.7	24
12	Pathway-Dependent Electron Transfer for Rod-Shaped Perylene-Derived Molecules Adsorbed in Nanometer-Size TiO <sub>2</sub> Cavities. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13586-13594.	3.1	24
13	Ultrafast Relaxation Dynamics of Photoexcited Zinc-Porphyrin: Electronic-Vibrational Coupling. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3151-3156.	4.6	24
14	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
15	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
16	InAlN/GaN HEMT on Si With f <sub>max</sub> = 270 GHz. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 994-999.	3.0	22
17	Heterogeneous Electron-Transfer Dynamics through Dipole-Bridge Groups. <i>Journal of Physical Chemistry C</i> , 2016, 120, 48-55.	3.1	21
18	Vibrational State Dependence of Interfacial Electron Transfer: Hot Electron Injection from the S <sub>1</sub> State of Azulene into TiO <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20485-20493.	3.1	19

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19	Ultraviolet femtosecond Kerr-gated wide-field fluorescence microscopy. <i>Optics Letters</i> , 2016, 41, 2462.	3.3	18
20	Dynamics of electron scattering between bulk states and the C 1 surface state of InP(100). <i>Applied Physics A: Materials Science and Processing</i> , 2004, 78, 239-239.	2.3	16
21	Electronic state dependence of heterogeneous electron transfer: injection from the S <sub>1</sub> and S <sub>2</sub> state of phlorin into TiO <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7914-7923.	2.8	16
22	Ti:Sapphire laser irradiation of graphene oxide film in order to tune its structural, chemical and electrical properties: Patterning and characterizations. <i>Applied Surface Science</i> , 2020, 500, 144053.	6.1	16
23	Two-photon photoemission as a probe of unoccupied and occupied surface states of InP(100). <i>Journal of Crystal Growth</i> , 2003, 248, 206-210.	1.5	15
24	Vibronic Effects in the Ultrafast Interfacial Electron Transfer of Perylene-Sensitized TiO <sub>2</sub> Surfaces. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12599-12607.	3.1	15
25	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
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	Energy Band Architecture of a Hierarchical ZnO/Au/Cu <sub>x</sub> O Nanoforest by Mimicking Natural Superhydrophobic Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 40490-40502.	8.0	13
28	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
29	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
30	Efficient Z-scheme charge separation in novel vertically aligned ZnO/CdSSe nanotrees. <i>Nanotechnology</i> , 2016, 27, 135401.	2.6	11
31	Ultrafast Formation of the Charge Transfer State of Prodan Reveals Unique Aspects of the Chromophore Environment. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2643-2651.	2.6	11
32	Light and microwave driven spin pumping across FeGaBi/BiSb interface. <i>Physical Review Materials</i> , 2021, 5, .	2.4	11
33	Efficiency and temporal response of crystalline Kerr media in collinear optical Kerr gating. <i>Optics Letters</i> , 2011, 36, 2904.	3.3	10
34	Morphology-Preserving Sensitization of ZnO Nanorod Surfaces via Click-Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 768-772.	4.6	10
35	Growth and characterization of ErAs:GaBi <sub>x</sub> As <sub>1-x</sub> . <i>Applied Physics Letters</i> , 2016, 109, .	3.3	9
36	Electronic-Vibrational Coupling and Electron Transfer. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23760-23772.	3.1	9

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37	Spatial variation in carrier dynamics along a single CdSSe nanowire. <i>Chemical Physics</i> , 2014, 442, 128-131.	1.9	8
38	Vibrational Spectroscopy on Photoexcited Dye-Sensitized Films via Pump-Degenerate Four-Wave Mixing. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2039-2045.	2.5	8
39	Synthesis and Properties of Perylene-Bridge-Anchor Chromophoric Compounds. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6330-6343.	2.5	7
40	Enhancement-/Depletion-Mode TiO <sub>2</sub> Thin-Film Transistors via O <sub>2</sub> /N <sub>2</sub> Preannealing. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 2346-2351.	3.0	7
41	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
42	Improving the electrical performance of monolayer top-gated MoS <sub>2</sub> transistors by post bis(trifluoromethane) sulfonamide treatment. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 415106.	2.8	5
43	Femtosecond Luminescence Imaging for Single Nanoparticle Characterization. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4583-4593.	2.5	4
44	Conformational and Binding Effects on Interfacial Electron Transfer from Dual-Linker Sensitizers. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8667-8676.	3.1	4
45	Redox Processes at Semiconductors-Gerischer Model and Beyond. , 2014, , 1786-1798.		4
46	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
47	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
48	A versatile strategy for controlled assembly of plasmonic metal/semiconductor hemispherical nano-heterostructure arrays. <i>Nanoscale</i> , 2020, 12, 17530-17537.	5.6	3
49	Ultrafast dynamics of single ZnO nanowires using ultraviolet femtosecond Kerr-gated wide-field fluorescence microscopy. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
50	Analyte-induced spectral filtering in femtosecond transient absorption spectroscopy. <i>Journal of Luminescence</i> , 2017, 187, 92-95.	3.1	1
51	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
52	Photoinduced ultrafast interfacial electron transfer probed with two-photon-photoemission. , 2007, , .		0
53	Synthesis of Hierarchical ZnO/CdSSe Heterostructure Nanotrees. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	0
54	Optical contrast calculations to quantify modifications induced on trilayer graphene by Ti:Sapphire laser thinning process. <i>Applied Surface Science</i> , 2020, 533, 147472.	6.1	0

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55	Ultrafast Wide-Field Fluorescence Microscopy. Springer Series in Chemical Physics, 2009, , 720-722.	0.2	0
56	Electron-phonon coupling in few layer WS2 measured by pump-degenerate four-wave mixing. , 2020, , .		0