

# Christoph Merschjann

## List of Publications by Year in descending order

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41  
papers

2,234  
citations

361045

20  
h-index

344852

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g-index

41  
all docs

41  
docs citations

41  
times ranked

3141  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bulk photovoltaic effect in carbon-doped gallium nitride revealed by anomalous surface photovoltage spectroscopy. <i>Physical Review B</i> , 2020, 101, .	1.1	9
2	Directional Charge Transport in Layered Two-Dimensional Triazine-Based Graphitic Carbon Nitride. <i>Angewandte Chemie</i> , 2019, 131, 9494-9498.	1.6	15
3	Directional Charge Transport in Layered Two-Dimensional Triazine-Based Graphitic Carbon Nitride. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9394-9398.	7.2	60
4	Boosting Visible-Light-Driven Photocatalytic Hydrogen Evolution with an Integrated Nickel Phosphide-Carbon Nitride System. <i>Angewandte Chemie</i> , 2017, 129, 1675-1679.	1.6	57
5	Boosting Visible-Light-Driven Photocatalytic Hydrogen Evolution with an Integrated Nickel Phosphide-Carbon Nitride System. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1653-1657.	7.2	261
6	Functional carbon nitride materials – design strategies for electrochemical devices. <i>Nature Reviews Materials</i> , 2017, 2, .	23.3	768
7	Ultrafast kinetics of linkage isomerism in Na <sub>2</sub> [Fe(CN) <sub>5</sub> NO] aqueous solution revealed by time-resolved photoelectron spectroscopy. <i>Structural Dynamics</i> , 2017, 4, 044031.	0.9	9
8	Coherent Diffractive Imaging of Laser-Driven Plasma Dynamics in Thin Foils. , 2016, , .		0
9	Optical nonlinearities of small polarons in lithium niobate. <i>Applied Physics Reviews</i> , 2015, 2, 040606.	5.5	65
10	Complementing Graphenes: 1D Interplanar Charge Transport in Polymeric Graphitic Carbon Nitrides. <i>Advanced Materials</i> , 2015, 27, 7993-7999.	11.1	153
11	Laser-Induced Plasma Dynamics Imaged by Femtosecond In-Line Holography. <i>Springer Proceedings in Physics</i> , 2015, , 345-347.	0.1	0
12	Graphitic carbon nitride nano-emitters on silicon: a photoelectrochemical heterojunction composed of earth-abundant materials for enhanced evolution of hydrogen. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12697-12702.	5.2	15
13	Photophysics of polymeric carbon nitride: An optical quasimonomer. <i>Physical Review B</i> , 2013, 87, .	1.1	118
14	The effect of surface roughness on the determination of optical constants of CuInSe <sub>2</sub> and CuGaSe <sub>2</sub> thin films. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	32
15	Photoluminescence characterization of Cu <sub>2</sub> ZnGeS <sub>4</sub> single crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1079-1081.	0.8	14
16	Solar hydrogen evolution using metal-free photocatalytic polymeric carbon nitride/CuInS <sub>2</sub> composites as photocathodes. <i>Journal of Materials Chemistry A</i> , 2013, , .	5.2	22
17	Crystal structure of polymeric carbon nitride and the determination of its process-temperature-induced modifications. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 395402.	0.7	73
18	<i>T</i> phase diagram of the CuSbS <sub>2</sub> -CuInS <sub>2</sub> system and solubility limit of Sb in CuInS <sub>2</sub> . <i>Crystal Research and Technology</i> , 2013, 48, 641-648.	0.6	2

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19	AgGaSe <sub>2</sub> thin films grown by chemical close-spaced vapor transport for photovoltaic applications: structural, compositional and optical properties. Journal of Physics Condensed Matter, 2012, 24, 175801.	0.7	8
20	Small-polaron based holograms in LiNbO <sub>3</sub> in the visible spectrum. Optics Express, 2012, 20, 13326.	1.7	8
21	Tunable optical transition in polymeric carbon nitrides synthesized via bulk thermal condensation. Journal of Physics Condensed Matter, 2012, 24, 162201.	0.7	51
22	Metal-Free Photocatalytic Graphitic Carbon Nitride on p-Type Chalcopyrite as a Composite Photocathode for Light-Induced Hydrogen Evolution. ChemSusChem, 2012, 5, 1227-1232.	3.6	53
23	Photoluminescence spectra of MnIn <sub>2</sub> S <sub>4</sub> . Optical Materials, 2012, 34, 915-919.	1.7	7
24	Nonexponential relaxation dynamics of localized carrier densities in oxide crystals without structural or energetic disorder. Physical Review B, 2011, 84, .	1.1	13
25	Hologram recording via spatial density modulation of NbLi <sub>4+/5+</sub> antisites in lithium niobate. Optics Express, 2011, 19, 15322.	1.7	11
26	Unprecedented Alkylzinc-Magnesium Alkoxide Clusters as Suitable Organometallic Precursors for Magnesium-Containing ZnO Nanoparticles. Chemistry - A European Journal, 2011, 17, 3904-3910.	1.7	20
27	Bulk photovoltaic effect of LiNbO <sub>3</sub> :Fe and its small-polaron-based microscopic interpretation. Physical Review B, 2011, 83, .	1.1	58
28	Transient light-induced absorption in periodically poled lithium niobate: Small polaron hopping in the presence of a spatially modulated defect concentration. Physical Review B, 2010, 81, .	1.1	3
29	Methylmagnesium Alkoxide Clusters with Mg <sub>4</sub> O <sub>4</sub> Cubane- and Mg <sub>7</sub> O <sub>8</sub> Biscubane-Like Cores: Organometallic Precursors for Low-Temperature Formation of MgO Nanoparticles with Variable Surface Defects. Chemistry of Materials, 2010, 22, 1376-1385.	3.2	29
30	Reply to Comment on "Methylmagnesium Alkoxide Clusters with Mg <sub>4</sub> O <sub>4</sub> Cubane- and Mg <sub>7</sub> O <sub>8</sub> Biscubane-Like Cores: Organometallic Precursors for Low-Temperature Formation of MgO Nanoparticles with Variable Surface Defects". Chemistry of Materials, 2010, 22, 4513-4513.	3.2	1
31	Absorption cross sections and number densities of electron and hole polarons in congruently melting LiNbO <sub>3</sub> . Journal of Physics Condensed Matter, 2009, 21, 015906.	0.7	29
32	Electron small polarons and bipolarons in LiNbO <sub>3</sub> . Journal of Physics Condensed Matter, 2009, 21, 123201.	0.7	129
33	Influence of Mg doping on the behaviour of polaronic light-induced absorption in LiNbO <sub>3</sub> . Physica Status Solidi - Rapid Research Letters, 2008, 2, 284-286.	1.2	25
34	Optically generated small electron and hole polarons in nominally undoped and Fe-doped KNbO <sub>3</sub> investigated by transient absorption spectroscopy. Physical Review B, 2008, 78, .	1.1	12
35	Influence of chemical reduction on the particular number densities of light-induced small electron and hole polarons in nominally pure LiNbO <sub>3</sub> . Physical Review B, 2007, 76, .	1.1	29
36	Insight to UV-induced formation of laser damage on LiB <sub>3</sub> O <sub>5</sub> optical surfaces during long-term sum-frequency generation. Optics Express, 2007, 15, 7351.	1.7	12

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37	Tuning of polaronic light-induced absorption in nominally pure LiNbO <sub>3</sub> by chemical reduction. , 2007, , .		0
38	Influence of Mg-doping on the polaronic light-induced absorption in LiNbO <sub>3</sub> . , 2007, , .		0
39	Influence of intrinsic and extrinsic defects on the recombination behavior of light-induced hole polarons. , 2007, , .		0
40	Evidence for Two-Path Recombination of Photoinduced Small Polarons in Reduced LiNbO <sub>3</sub> . Physical Review Letters, 2006, 96, 186404.	2.9	33
41	Transient kinetics of light-induced metastable states in single crystals and aqueous solutions of Na <sub>2</sub> [Fe(CN) <sub>5</sub> NO]·2H <sub>2</sub> O. Physical Review B, 2005, 72, .	1.1	30