

Christoph Merschjann

List of Publications by Year in descending order

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papers

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citations

361045

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344852

36
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41
all docs

41
docs citations

41
times ranked

3141
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional carbon nitride materials – design strategies for electrochemical devices. Nature Reviews Materials, 2017, 2, .	23.3	768
2	Boosting Visible-Light-Driven Photocatalytic Hydrogen Evolution with an Integrated Nickel Phosphide-Carbon Nitride System. Angewandte Chemie - International Edition, 2017, 56, 1653-1657.	7.2	261
3	Complementing Graphenes: 1D Interplanar Charge Transport in Polymeric Graphitic Carbon Nitrides. Advanced Materials, 2015, 27, 7993-7999.	11.1	153
4	Electron small polarons and bipolarons in LiNbO_3 . Journal of Physics Condensed Matter, 2009, 21, 123201.	0.7	129
5	Photophysics of polymeric carbon nitride: An optical quasimonomer. Physical Review B, 2013, 87, .	1.1	118
6	Crystal structure of polymeric carbon nitride and the determination of its process-temperature-induced modifications. Journal of Physics Condensed Matter, 2013, 25, 395402.	0.7	73
7	Optical nonlinearities of small polarons in lithium niobate. Applied Physics Reviews, 2015, 2, 040606.	5.5	65
8	Directional Charge Transport in Layered Two-Dimensional Triazine-Based Graphitic Carbon Nitride. Angewandte Chemie - International Edition, 2019, 58, 9394-9398.	7.2	60
9	Bulk photovoltaic effect of LiNbO_3 and its small-polaron-based microscopic interpretation. Physical Review B, 2011, 83, .	1.1	58
10	Boosting Visible-Light-Driven Photocatalytic Hydrogen Evolution with an Integrated Nickel Phosphide-Carbon Nitride System. Angewandte Chemie, 2017, 129, 1675-1679.	1.6	57
11	Metal-Free Photocatalytic Graphitic Carbon Nitride on α -Type Chalcopyrite as a Composite Photocathode for Light-Induced Hydrogen Evolution. ChemSusChem, 2012, 5, 1227-1232.	3.6	53
12	Tunable optical transition in polymeric carbon nitrides synthesized via bulk thermal condensation. Journal of Physics Condensed Matter, 2012, 24, 162201.	0.7	51
13	Evidence for Two-Path Recombination of Photoinduced Small Polarons in Reduced LiNbO_3 . Physical Review Letters, 2006, 96, 186404.	2.9	33
14	The effect of surface roughness on the determination of optical constants of CuInSe_2 and CuGaSe_2 thin films. Journal of Applied Physics, 2013, 113, .	1.1	32
15	Transient kinetics of light-induced metastable states in single crystals and aqueous solutions of $\text{Na}_2[\text{Fe}(\text{CN})_5\text{NO}] \cdot 2\text{H}_2\text{O}$. Physical Review B, 2005, 72, .	1.1	30
16	Influence of chemical reduction on the particular number densities of light-induced small electron and hole polarons in nominally pure LiNbO_3 . Physical Review B, 2007, 76, .	1.1	29
17	Absorption cross sections and number densities of electron and hole polarons in congruently melting LiNbO_3 . Journal of Physics Condensed Matter, 2009, 21, 015906.	0.7	29
18	Methylmagnesium Alkoxide Clusters with Mg_4O_4 Cubane- and Mg_7O_8 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

#	ARTICLE	IF	CITATIONS
19	Influence of Mg doping on the behaviour of polaronic light-induced absorption in LiNbO ₃ . Physica Status Solidi - Rapid Research Letters, 2008, 2, 284-286.	1.2	25
20	Solar hydrogen evolution using metal-free photocatalytic polymeric carbon nitride/CuInS ₂ composites as photocathodes. Journal of Materials Chemistry A, 2013, , .	5.2	22
21	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
22	Graphitic carbon nitride nano-emitters on silicon: a photoelectrochemical heterojunction composed of earth-abundant materials for enhanced evolution of hydrogen. Journal of Materials Chemistry A, 2014, 2, 12697-12702.	5.2	15
23	Directional Charge Transport in Layered Two-Dimensional Triazine-Based Graphitic Carbon Nitride. Angewandte Chemie, 2019, 131, 9494-9498.	1.6	15
24	Photoluminescence characterization of Cu ₂ ZnGeS ₄ single crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1079-1081.	0.8	14
25	Nonexponential relaxation dynamics of localized carrier densities in oxide crystals without structural or energetic disorder. Physical Review B, 2011, 84, .	1.1	13
26	Insight to UV-induced formation of laser damage on LiB ₃ O ₅ optical surfaces during long-term sum-frequency generation. Optics Express, 2007, 15, 7351.	1.7	12
27	Optically generated small electron and hole polarons in nominally undoped and Fe-doped KNbO ₃ investigated by transient absorption spectroscopy. Physical Review B, 2008, 78, .	1.1	12
28	Hologram recording via spatial density modulation of NbLi ₄₊₅₊ antisites in lithium niobate. Optics Express, 2011, 19, 15322.	1.7	11
29	Ultrafast kinetics of linkage isomerism in Na ₂ [Fe(CN) ₅ NO] aqueous solution revealed by time-resolved photoelectron spectroscopy. Structural Dynamics, 2017, 4, 044031.	0.9	9
30	Bulk photovoltaic effect in carbon-doped gallium nitride revealed by anomalous surface photovoltage spectroscopy. Physical Review B, 2020, 101, .	1.1	9
31	AgGaSe ₂ 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
32	Small-polaron based holograms in LiNbO ₃ in the visible spectrum. Optics Express, 2012, 20, 13326.	1.7	8
33	Photoluminescence spectra of MnIn ₂ S ₄ . Optical Materials, 2012, 34, 915-919.	1.7	7
34	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
35	<i>T-x</i> phase diagram of the CuSbS ₂ -CuInS ₂ system and solubility limit of Sb in CuInS ₂ . Crystal Research and Technology, 2013, 48, 641-648.	0.6	2
36	Reply to Comment on "Methylmagnesium Alkoxide Clusters with Mg ₄ O ₄ Cubane- and Mg ₇ O ₈ 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

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37	Laser-Induced Plasma Dynamics Imaged by Femtosecond In-Line Holography. Springer Proceedings in Physics, 2015, , 345-347.	0.1	0
38	Tuning of polaronic light-induced absorption in nominally pure LiNbO3 by chemical reduction. , 2007, , .		0
39	Influence of Mg-doping on the polaronic light-induced absorption in LiNbO3. , 2007, , .		0
40	Influence of intrinsic and extrinsic defects on the recombination behavior of light-induced hole polarons. , 2007, , .		0
41	Coherent Diffractive Imaging of Laser-Driven Plasma Dynamics in Thin Foils. , 2016, , .		0