

Ronald Frahm

List of Publications by Year in descending order

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34
papers

1,833
citations

361045

20
h-index

395343

33
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35
docs citations

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times ranked

2475
citing authors

#	ARTICLE	IF	CITATIONS
1	Inverted Organic Solar Cells with Sol-Gel Processed High Work-Function Vanadium Oxide Hole-Extraction Layers. <i>Advanced Functional Materials</i> , 2011, 21, 4776-4783.	7.8	213
2	New method for time dependent x-ray absorption studies. <i>Review of Scientific Instruments</i> , 1989, 60, 2515-2518.	0.6	180
3	Quick-EXAFS setup at the SuperXAS beamline for <i>in situ</i> X-ray absorption spectroscopy with 10 ⁻⁶ s time resolution. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 260-266.	1.0	158
4	Tuning the Pt/CeO ₂ Interface by <i>in situ</i> Variation of the Pt Particle Size. <i>ACS Catalysis</i> , 2018, 8, 4800-4811.	5.5	157
5	Quick scanning exafs: First experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1988, 270, 578-581.	0.7	154
6	Determination of secondary phases in kesterite Cu ₂ ZnSnS ₄ thin films by x-ray absorption near edge structure analysis. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	109
7	X-ray undulator beamline BW1 at DORIS III. <i>Review of Scientific Instruments</i> , 1995, 66, 1677-1680.	0.6	92
8	Secondary phases and their influence on the composition of the kesterite phase in CZTS and CZTSe thin films. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15988-15994.	1.3	77
9	<i>ProQEXAFS</i> : a highly optimized parallelized rapid processing software for QEXAFS data. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 551-557.	1.0	76
10	<i>Operando</i> Spatially- and Time-Resolved XAS Study on Zeolite Catalysts for Selective Catalytic Reduction of NO _x by NH ₃ . <i>Journal of Physical Chemistry C</i> , 2014, 118, 10204-10212.	1.5	74
11	Investigation of Room Temperature Oxidation of Cu in Air by Yoneda-XAFS. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	72
12	Surface Oxidation of Supported Ni Particles and Its Impact on the Catalytic Performance during Dynamically Operated Methanation of CO ₂ . <i>Catalysts</i> , 2017, 7, 279.	1.6	55
13	Recent Advances and New Applications of TimeResolved Xray Absorption Spectroscopy. <i>Physica Scripta</i> , 2005, , 974.	1.2	49
14	Piezo-QEXAFS: advances in time-resolved X-ray absorption spectroscopy. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 354-356.	1.0	42
15	Quick scanning monochromator for millisecond <i>in situ</i> and <i>in operando</i> X-ray absorption spectroscopy. <i>Review of Scientific Instruments</i> , 2015, 86, 093905.	0.6	32
16	Fluorescence-detected quick-scanning X-ray absorption spectroscopy. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 681-688.	1.0	31
17	A new flexible monochromator setup for quick scanning x-ray absorption spectroscopy. <i>Review of Scientific Instruments</i> , 2010, 81, 073109.	0.6	30
18	Piezo-QEXAFS with fluorescence detection: fast time-resolved investigations of dilute specimens. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 6-9.	1.0	29

#	ARTICLE	IF	CITATIONS
19	Arylamino- ϵ -functionalized fluorene- ϵ -and carbazole- ϵ -based copolymers: Color-tuning their CdTe nanocrystal composites from red to white. <i>Journal of Polymer Science Part A</i> , 2011, 49, 392-402.	2.5	27
20	QEXAFS and UV/Vis Simultaneous Monitoring of the TiO ₂ -Nanoparticles Formation by Hydrolytic Sol-Gel Route. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6228-6236.	1.5	25
21	Gridded Ionization Chambers for Time Resolved X-Ray Absorption Spectroscopy. <i>Journal of Physics: Conference Series</i> , 2013, 425, 092010.	0.3	19
22	Spatiotemporal Investigation of the Temperature and Structure of a Pt/CeO ₂ Oxidation Catalyst for CO and Hydrocarbon Oxidation during Pulse Activation. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 6662-6675.	1.8	17
23	The quick EXAFS setup at beamline P64 at PETRA III for up to 200 spectra per second. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	15
24	Advancing Time-resolved Methods in Monitoring and Characterization of Catalysts. <i>Synchrotron Radiation News</i> , 2009, 22, 6-11.	0.2	14
25	Depth distribution of secondary phases in kesterite Cu ₂ ZnSnS ₄ by angle-resolved X-ray absorption spectroscopy. <i>APL Materials</i> , 2017, 5, .	2.2	14
26	Measurement of the Energy of X-Ray Absorption Edges. <i>Physica Status Solidi A</i> , 1991, 124, 565-570.	1.7	11
27	Synthesis and Characterization of Star-Shaped Donor-Acceptor-Donor Structures. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 4761-4769.	1.2	11
28	Compositional dependence of charge carrier transport in kesterite Cu ₂ ZnSnS ₄ solar cells. <i>Journal of Applied Physics</i> , 2016, 120, 225703.	1.1	11
29	Microparticles of phosphonate-functionalized copolymers and their composites with CdTe nanocrystals prepared by sonication-precipitation. <i>Polymer Chemistry</i> , 2011, 2, 2597.	1.9	10
30	Quick-Scanning QEXAFS in grazing incidence: Surface science in sub-seconds. <i>Journal of Physics: Conference Series</i> , 2013, 430, 012124.	0.3	6
31	Hard disk drive based microsecond x-ray chopper for characterization of ionization chambers and photodiodes. <i>Review of Scientific Instruments</i> , 2015, 86, 035105.	0.6	4
32	Time-Resolved Grazing Incidence X-Ray Absorption Spectroscopy for the In Situ Investigation of the Initial Stages of Sputter-Deposited Copper Thin Films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, 2100514.	0.8	3
33	Performance of nearly fixed offset asymmetric channel-cut crystals for X-ray monochromators. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1879-1886.	1.0	3
34	Design of weak link channel-cut crystals for fast QEXAFS monochromators. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0