

Jerome Carnis

List of Publications by Year in descending order

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papers

318
citations

1040056

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17
g-index

28
all docs

28
docs citations

28
times ranked

490
citing authors

#	ARTICLE	IF	CITATIONS
1	Active site localization of methane oxidation on Pt nanocrystals. Nature Communications, 2018, 9, 3422.	12.8	58
2	Demonstration of Feasibility of X-Ray Free Electron Laser Studies of Dynamics of Nanoparticles in Entangled Polymer Melts. Scientific Reports, 2014, 4, 6017.	3.3	41
3	<i>PyNX</i>: high-performance computing toolkit for coherent X-ray imaging based on operators. Journal of Applied Crystallography, 2020, 53, 1404-1413.	4.5	38
4	Towards a quantitative determination of strain in Bragg Coherent X-ray Diffraction Imaging: artefacts and sign convention in reconstructions. Scientific Reports, 2019, 9, 17357.	3.3	23
5	Spatially resolved fluorescence of caesium lead halide perovskite supercrystals reveals quasi-atomic behavior of nanocrystals. Nature Communications, 2022, 13, 892.	12.8	15
6	Crystallographic orientation of facets and planar defects in functional nanostructures elucidated by nano-focused coherent diffractive X-ray imaging. Nanoscale, 2018, 10, 4833-4840.	5.6	14
7	Twin boundary migration in an individual platinum nanocrystal during catalytic CO oxidation. Nature Communications, 2021, 12, 5385.	12.8	14
8	Time-resolved in situ visualization of the structural response of zeolites during catalysis. Nature Communications, 2020, 11, 5901.	12.8	11
9	Morphogenesis of Magnetite Mesocrystals: Interplay between Nanoparticle Morphology and Solvation Shell. Chemistry of Materials, 2021, 33, 9119-9130.	6.7	11
10	Imaging the facet surface strain state of supported multi-faceted Pt nanoparticles during reaction. Nature Communications, 2022, 13, .	12.8	11
11	<i>In situ</i> structural evolution of single particle model catalysts under ambient pressure reaction conditions. Nanoscale, 2019, 11, 331-338.	5.6	10
12	High spatial coherence and short pulse duration revealed by the Hanbury Brown and Twiss interferometry at the European XFEL. Structural Dynamics, 2021, 8, 044305.	2.3	9
13	Coherent X-ray scattering beamline at port 9C of ÅPohang Light Source II. Journal of Synchrotron Radiation, 2014, 21, 264-267.	2.4	9
14	Mapping Inversion Domain Boundaries along Single GaN Wires with Bragg Coherent X-ray Imaging. ACS Nano, 2020, 14, 10305-10312.	14.6	8
15	Exploring the 3D structure and defects of a self-assembled gold mesocrystal by coherent X-ray diffraction imaging. Nanoscale, 2021, 13, 10425-10435.	5.6	8
16	Single alloy nanoparticle x-ray imaging during a catalytic reaction. Science Advances, 2021, 7, eabh0757.	10.3	7
17	Continuous scanning for Bragg coherent X-ray imaging. Scientific Reports, 2020, 10, 12760.	3.3	6
18	Cylindrical Reflex Triode Warm X-Ray Source. IEEE Transactions on Plasma Science, 2020, 48, 3877-3889.	1.3	6

#	ARTICLE	IF	CITATIONS
19	Facet-Dependent Strain Determination in Electrochemically Synthesized Platinum Model Catalytic Nanoparticles. <i>Small</i> , 2021, 17, e2007702.	10.0	4
20	Visualization of photogenerated transport characteristics of a pentacene thin-film transistor at selected wavelengths. <i>Thin Solid Films</i> , 2013, 534, 503-507.	1.8	3
21	Variable-Wavelength Quick Scanning Nanofocused X-Ray Microscopy for In Situ Strain and Tilt Mapping. <i>Small</i> , 2020, 16, 1905990.	10.0	3
22	Characterization of the field-effect conductivity distribution in pentacene thin-film transistors by a near-field scanning microwave microscope. <i>Synthetic Metals</i> , 2011, 161, 931-936.	3.9	2
23	Advanced Coherent X-Ray Diffraction and Electron Microscopy of Individual Nanocrystals on Si Nanotips for III-V on-Si Electrode-induced lattice distortions in GaAs multi-quantum-dot arrays. <i>Journal of Materials Research</i> , 2019, 34, 1291-1301.	3.8	2
24	Robust ptychographic X-ray speckle tracking with multilayer Laue lenses. <i>Optics Express</i> , 2022, 30, 25450.	2.6	2
25	precise wavefront characterization of x-ray optical elements using a laboratory source. <i>Review of Scientific Instruments</i> , 2022, 93, 073704.	3.4	1
26	Jupyter Notebook graphical user interface for Bragg coherent diffraction imaging. <i>Journal of Applied Crystallography</i> , 2022, 55, 1045-1054.	1.3	1
27	Surface and Interfacial Morphology of Bulk Heterojunction Layers in Organic Solar Cells with Solvent Additive. <i>Journal of the Korean Physical Society</i> , 2019, 75, 498-502.	4.5	1
28		0.7	0