Kirsten Marie Ã˜rnsbjerg Jensen

List of Publications by Year
in descending order

72 papers	2,622 citations	159585 30 h-index	197818 49 g-index
82 all docs	82 docs citations	82 times ranked	3016 citing authors

#	Article	IF	Citations
1	Revealing the Mechanisms behind SnO₂ Nanoparticle Formation and Growth during Hydrothermal Synthesis: An In Situ Total Scattering Study. Journal of the American Chemical Society, 2012, 134, 6785-6792.	13.7	180
2	Polymorphism in magic-sized Au144(SR)60 clusters. Nature Communications, 2016, 7, 11859.	12.8	167
3	Self-supported Ptâ€“CoO networks combining high specific activity with high surface area for oxygen reduction. Nature Materials, 2021, 20, 208-213.	27.5	139
4	Experimental setup for<i>in situ</i>X-ray SAXS/WAXS/PDF studies of the formation and growth of nanoparticles in near- and supercritical fluids. Journal of Applied Crystallography, 2010, 43, 729-736.	4.5	132
5	Inâ€…Situ Studies of Solvothermal Synthesis of Energy Materials. ChemSusChem, 2014, 7, 1594-1611.	6.8	128
6	Investigating Particle Size Effects in Catalysis by Applying a Size-Controlled and Surfactant-Free Synthesis of Colloidal Nanoparticles in Alkaline Ethylene Glycol: Case Study of the Oxygen Reduction Reaction on Pt. ACS Catalysis, 2018, 8, 6627-6635.	11.2	119
7	Understanding the Formation and Evolution of Ceria Nanoparticles Under Hydrothermal Conditions. Angewandte Chemie - International Edition, 2012, 51, 9030-9033.	13.8	88
8	Defects in Hydrothermally Synthesized LiFePO₄ and LiFe_{1-x}Mn_{<i>x</i>}PO₄ Cathode Materials. Chemistry of Materials, 2013, 25, 2282-2290.	6.7	88
9	Mechanisms for Iron Oxide Formation under Hydrothermal Conditions: An <i>in Situ</i> Total Scattering Study. ACS Nano, 2014, 8, 10704-10714.	14.6	75
10	There's no place like real-space: elucidating size-dependent atomic structure of nanomaterials using pair distribution function analysis. Nanoscale Advances, 2020, 2, 2234-2254.	4.6	71
11	In Situ Total Xâ€Ray Scattering Study of WO₃ Nanoparticle Formation under Hydrothermal Conditions. Angewandte Chemie - International Edition, 2014, 53, 3667-3670.	13.8	59
12	From platinum atoms in molecules to colloidal nanoparticles: A review on reduction, nucleation and growth mechanisms. Advances in Colloid and Interface Science, 2020, 286, 102300.	14.7	57
13	Lattice dynamics reveals a local symmetry breaking in the emergent dipole phase of PbTe. Physical Review B, 2012, 86, .	3.2	55
14	In situ total X-ray scattering study of the formation mechanism and structural defects in anatase TiO₂ nanoparticles under hydrothermal conditions. CrystEngComm, 2015, 17, 6868-6877.	2.6	52
15	Demonstration of thin film pair distribution functionÂanalysis (tfPDF) for the study of local structure in amorphous and crystalline thin films. IUCrJ, 2015, 2, 481-489.	2.2	50
16	X-Ray Diffraction Computed Tomography for Structural Analysis of Electrode Materials in Batteries. Journal of the Electrochemical Society, 2015, 162, A1310-A1314.	2.9	50
17	Coupling in situ synchrotron radiation with ex situ spectroscopy characterizations to study the formation of Ba1â^'xSrxTiO3 nanoparticles in supercritical fluids. Journal of Supercritical Fluids, 2014, 87, 111-117.	3.2	47
18	Evolution of atomic structure during nanoparticle formation. IUCrJ, 2014, 1, 165-171.	2.2	46

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19	<i>In Situ</i> Powder Diffraction Study of the Hydrothermal Synthesis of ZnO Nanoparticles. Crystal Growth and Design, 2014, 14, 2803-2810.	3.0	46
20	Rapid Hydrothermal Preparation of Rutile TiO2 Nanoparticles by Simultaneous Transformation of Primary Brookite and Anatase: An in Situ Synchrotron PXRD Study. Crystal Growth and Design, 2012, 12, 6092-6097.	3.0	42
21	Towards atomistic understanding of polymorphism in the solvothermal synthesis of ZrO₂nanoparticles. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, 645-650.	0.1	41
22	Watching Nanoparticles Form: An In Situ (Smallâ€/Wideâ€Angle Xâ€ray Scattering/Total Scattering) Study of the Growth of Yttriaâ€Stabilised Zirconia in Supercritical Fluids. Chemistry - A European Journal, 2012, 18, 5759-5766.	3.3	38
23	Pulsed supercritical synthesis of anatase TiO2 nanoparticles in a waterâ€“isopropanol mixture studied by in situ powder X-ray diffraction. Nanoscale, 2013, 5, 2372.	5.6	38
24	Formation Mechanisms of Pt and Pt₃Gd Nanoparticles under Solvothermal Conditions: An <i>in Situ</i> Total X-ray Scattering Study. Journal of Physical Chemistry C, 2015, 119, 13357-13362.	3.1	37
25	Inâ€situ Synchrotron Xâ€ray Diffraction Study of the Formation of Cubic Li₂TiO₃ Under Hydrothermal Conditions. European Journal of Inorganic Chemistry, 2011, 2011, 2221-2226.	2.0	35
26	The chemistry of ZnWO₄ nanoparticle formation. Chemical Science, 2016, 7, 6394-6406.	7.4	35
27	<i>Cluster-mining</i>: an approach for determining core structures of metallic nanoparticles from atomic pair distribution function data. Acta Crystallographica Section A: Foundations and Advances, 2020, 76, 24-31.	0.1	34
28	Size and Size Distribution Control of Î³-Fe₂O₃ Nanocrystallites: An in Situ Study. Crystal Growth and Design, 2014, 14, 1307-1313.	3.0	33
29	Mechanisms for Tungsten Oxide Nanoparticle Formation in Solvothermal Synthesis: From Polyoxometalates to Crystalline Materials. Journal of Physical Chemistry C, 2019, 123, 5110-5119.	3.1	33
30	Real-time synchrotron powder X-ray diffraction study of the antisite defect formation during sub- and supercritical synthesis of LiFePO4and LiFe1â^'xMnxPO4nanoparticles. Journal of Applied Crystallography, 2011, 44, 287-294.	4.5	32
31	Unraveling structural and magnetic information during growth of nanocrystalline SrFe₁₂O₁₉. Journal of Materials Chemistry C, 2016, 4, 10903-10913.	5.5	30
32	The effect of weighted averages when determining the speciation and structureâ€“property relationships of europium(iii) dipicolinate complexes. Physical Chemistry Chemical Physics, 2020, 22, 12794-12805.	2.8	29
33	Following the in-plane disorder of sodiated hard carbon through <i>operando</i> total scattering. Journal of Materials Chemistry A, 2019, 7, 11709-11717.	10.3	28
34	Formation and Growth of Bi₂Te₃ in Biomolecule-Assisted Near-Critical Water: In Situ Synchrotron Radiation Study. Journal of Physical Chemistry C, 2010, 114, 12133-12138.	3.1	27
35	Rapid Oneâ€Step Lowâ€Temperature Synthesis of Nanocrystalline Î³â€Al₂O₃. Angewandte Chemie - International Edition, 2011, 50, 7045-7047.	13.8	25
36	Structure, Size, and Morphology Control of Nanocrystalline Lithium Cobalt Oxide. Crystal Growth and Design, 2011, 11, 753-758.	3.0	24

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37	Size Induced Structural Changes in Molybdenum Oxide Nanoparticles. ACS Nano, 2019, 13, 8725-8735.	14.6	23
38	A cloud platform for atomic pair distribution function analysis: <i>PDFitc</i>. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, 2-6.	0.1	23
39	Structureâ€“property insights into nanostructured electrodes for Li-ion batteries from local structural and diffusional probes. Journal of Materials Chemistry A, 2018, 6, 127-137.	10.3	22
40	Evolution of Atomic-Level Structure in Sub-10 Nanometer Iron Oxide Nanocrystals: Influence on Cation Occupancy and Growth Rates. ACS Nano, 2020, 14, 5480-5490.	14.6	22
41	Solution Structure, Electronic Energy Levels, and Photophysical Properties of [Eu(MeOH)_{<i>n</i>â^'2<i>m</i>}(NO₃)_{<i>m</i>}]^{3â€“<i>m</i>+} Complexes. Inorganic Chemistry, 2020, 59, 10409-10421.	4.0	20
42	Structural Changes during the Growth of Atomically Precise Metal Oxido Nanoclusters from Combined Pair Distribution Function and Smallâ€Angle Xâ€ray Scattering Analysis. Angewandte Chemie - International Edition, 2021, 60, 20407-20416.	13.8	20
43	Characterization of Cu₂ZnSnS₄ Particles Obtained by the Hot-Injection Method. ACS Omega, 2020, 5, 10501-10509.	3.5	19
44	Durable Multimetal Oxychloride Intergrowths for Visible Light-Driven Water Splitting. Chemistry of Materials, 2021, 33, 347-358.	6.7	19
45	Structural Evolution of Iron Antimonides from Amorphous Precursors to Crystalline Products Studied by Total Scattering Techniques. Journal of the American Chemical Society, 2015, 137, 9652-9658.	13.7	18
46	Local and long-range atomic/magnetic structure of non-stoichiometric spinel iron oxide nanocrystallites. IUCrJ, 2021, 8, 33-45.	2.2	18
47	Structure analysis of supported disordered molybdenum oxides using pair distribution function analysis and automated cluster modelling. Journal of Applied Crystallography, 2020, 53, 148-158.	4.5	18
48	In situ synchrotron powder X-ray diffraction study of formation and growth of yttrium and ytterbium aluminum garnet nanoparticles in sub- and supercritical water. RSC Advances, 2013, 3, 15368.	3.6	15
49	Reducing Transformation Strains during Na Intercalation in Olivine FePO₄ Cathodes by Mn Substitution. ACS Applied Energy Materials, 2019, 2, 8060-8067.	5.1	15
50	Same Precursor, Two Different Products: Comparing the Structural Evolution of Inâ€“Gaâ€“O â€œGel-Derivedâ€• Powders and Solution-Cast Films Using Pair Distribution Function Analysis. Journal of the American Chemical Society, 2017, 139, 5607-5613.	13.7	13
51	Spatially Localized Synthesis and Structural Characterization of Platinum Nanocrystals Obtained Using UV Light. ACS Omega, 2018, 3, 10351-10356.	3.5	13
52	Insights from <i>In Situ</i> Studies on the Early Stages of Platinum Nanoparticle Formation. Journal of Physical Chemistry Letters, 2021, 12, 3224-3231.	4.6	11
53	Size-induced amorphous structure in tungsten oxide nanoparticles. Nanoscale, 2021, 13, 20144-20156.	5.6	11
54	In situ powder X-ray diffraction study of the hydro-thermal formation of LiMn₂O₄nanocrystallites. Dalton Transactions, 2014, 43, 15075-15084.	3.3	9

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55	Continuous Flow Supercritical Water Synthesis and Temperature-Dependent Defect Structure Analysis of YAG and YbAG Nanoparticles. Crystal Growth and Design, 2016, 16, 2646-2652.	3.0	9
56	Formation and growth mechanism for niobium oxide nanoparticles: atomistic insight from <i>in situ</i> X-ray total scattering. Nanoscale, 2021, 13, 8087-8097.	5.6	8
57	Cubes on a string: a series of linear coordination polymers with cubane-like nodes and dicarboxylate linkers. Nanoscale, 2020, 12, 11601-11611.	5.6	6
58	Large exchange bias in Cr substituted Fe₃O₄ nanoparticles with FeO subdomains. Nanoscale, 2021, 13, 15844-15852.	5.6	6
59	Structural changes during water-mediated amorphization of semiconducting two-dimensional thiostannates. IUCrJ, 2019, 6, 804-814.	2.2	6
60	Highly Stable Apatite Supported Molybdenum Oxide Catalysts for Selective Oxidation of Methanol to Formaldehyde: Structure, Activity and Stability. ChemCatChem, 2021, 13, 4954-4975.	3.7	6
61	Simple Setup Miniaturization with Multiple Benefits for Green Chemistry in Nanoparticle Synthesis. ACS Omega, 2022, 7, 4714-4721.	3.5	6
62	Mechanistic Insight into the Precursor Chemistry of ZrO₂and HfO₂Nanocrystals; towards Size-Tunable Syntheses. Jacs Au, 2022, 2, 827-838.	7.9	6
63	Surfactant-free syntheses and pair distribution function analysis of osmium nanoparticles. Beilstein Journal of Nanotechnology, 2022, 13, 230-235.	2.8	5
64	Breaking with the Principles of Coreduction to Form Stoichiometric Intermetallic PdCu Nanoparticles. Small Methods, 2022, 6, e2200420.	8.6	5
65	Monoalkyl Phosphinic Acids as Ligands in Nanocrystal Synthesis. ACS Nano, 2022, 16, 7361-7372.	14.6	5
66	Characterization of Nanomaterials with Total Scattering and Pair Distribution Function Analysis: Examples from Metal Oxide Nanochemistry. Chimia, 2021, 75, 368.	0.6	4
67	Structural Changes during the Growth of Atomically Precise Metal Oxido Nanoclusters from Combined Pair Distribution Function and Smallâ€Angle Xâ€ray Scattering Analysis. Angewandte Chemie, 2021, 133, 20570-20579.	2.0	4
68	Structural characterization and magnetic properties of chromium jarosite KCr₃(OD)₆(SO₄)₂. Physical Chemistry Chemical Physics, 2020, 22, 25001-25010.	2.8	3
69	Order and Disorder in Layered Double Hydroxides: Lessons Learned from the Green Rust Sulfateâ”€Nikischerite Series. ACS Earth and Space Chemistry, 2022, 6, 322-332.	2.7	3
70	Structural evolution in thermoelectric zinc antimonide thin films studied by <i>in situ</i> X-ray scattering techniques. IUCrJ, 2021, 8, 444-454.	2.2	2
71	Spectroscopy and scattering for chemistry: new possibilities and challenges with large scale facilities. Nanoscale, 2020, 12, 17968-17970.	5.6	1
72	RÃ¼cktitelbild: Structural Changes during the Growth of Atomically Precise Metal Oxido Nanoclusters from Combined Pair Distribution Function and Smallâ€Angle Xâ€ray Scattering Analysis (Angew. Chem. 37/2021). Angewandte Chemie, 2021, 133, 20732-20732.	2.0	0