Annick De Backer

List of Publications by Year in descending order

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ANNUCK DE RACKER

#	Article	IF	CITATIONS
1	In situ study of the formation mechanism ofÂtwo-dimensional superlattices from PbSeÂnanocrystals. Nature Materials, 2016, 15, 1248-1254.	27.5	199
2	Measuring Lattice Strain in Three Dimensions through Electron Microscopy. Nano Letters, 2015, 15, 6996-7001.	9.1	110
3	Three-Dimensional Elemental Mapping at the Atomic Scale in Bimetallic Nanocrystals. Nano Letters, 2013, 13, 4236-4241.	9.1	101
4	Three-Dimensional Quantification of the Facet Evolution of Pt Nanoparticles in a Variable Gaseous Environment. Nano Letters, 2019, 19, 477-481.	9.1	93
5	Unscrambling Mixed Elements using High Angle Annular Dark Field Scanning Transmission Electron Microscopy. Physical Review Letters, 2016, 116, 246101.	7.8	45
6	Locating and Controlling the Zn Content in In(Zn)P Quantum Dots. Chemistry of Materials, 2020, 32, 557-565.	6.7	40
7	Advanced electron crystallography through model-based imaging. IUCrJ, 2016, 3, 71-83.	2.2	36
8	Hybrid statistics-simulations based method for atom-counting from ADF STEM images. Ultramicroscopy, 2017, 177, 69-77.	1.9	30
9	Measuring Dynamic Structural Changes of Nanoparticles at the Atomic Scale Using Scanning Transmission Electron Microscopy. Physical Review Letters, 2020, 124, 106105.	7.8	20
10	Recent Advances in Transmission Electron Microscopy for Materials Science at the EMAT Lab of the University of Antwerp. Materials, 2018, 11, 1304.	2.9	19
11	Interface Pattern Engineering in Coreâ€Shell Upconverting Nanocrystals: Shedding Light on Critical Parameters and Consequences for the Photoluminescence Properties. Small, 2021, 17, e2104441.	10.0	17
12	Control of Knock-On Damage for 3D Atomic Scale Quantification of Nanostructures: Making Every Electron Count in Scanning Transmission Electron Microscopy. Physical Review Letters, 2019, 122, 066101.	7.8	14
13	Three-dimensional atomic structure of supported Au nanoparticles at high temperature. Nanoscale, 2021, 13, 1770-1776.	5.6	13
14	The atomic lensing model: New opportunities for atom-by-atom metrology of heterogeneous nanomaterials. Ultramicroscopy, 2019, 203, 155-162.	1.9	12
15	Recent breakthroughs in scanning transmission electron microscopy of small species. Advances in Physics: X, 2018, 3, 1480420.	4.1	11
16	Quantifying a Heterogeneous Ru Catalyst on Carbon Black Using ADF STEM. Particle and Particle Systems Characterization, 2016, 33, 438-444.	2.3	9
17	Quantifying Strain and Dislocation Density at Nanocube Interfaces after Assembly and Epitaxy. ACS Applied Materials & amp; Interfaces, 2020, 12, 8788-8794.	8.0	4
18	Modelling ADF STEM images using elliptical Gaussian peaks and its effects on the quantification of structure parameters in the presence of sample tilt. Ultramicroscopy, 2021, 230, 113391.	1.9	3

#	Article	IF	CITATIONS
19	Hidden Markov model for atom-counting from sequential ADF STEM images: Methodology, possibilities and limitations. Ultramicroscopy, 2020, 219, 113131.	1.9	2
20	General conclusions and future perspectives. Advances in Imaging and Electron Physics, 2021, , 243-253.	0.2	0
21	Interface Pattern Engineering in Coreâ€Shell Upconverting Nanocrystals: Shedding Light on Critical Parameters and Consequences for the Photoluminescence Properties (Small 47/2021). Small, 2021, 17, 2170246.	10.0	0