Ilke Arslan

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Photo-induced ultrafast phase transition in twisted bilayer graphene. Microscopy and Microanalysis, 2021, 27, 2954-2956.	0.4	0
2	Iridium Atoms Bonded to Crystalline Powder MgO: Characterization by Imaging and Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 459-468.	3.1	10
3	Ultrafast formation of a transient two-dimensional diamondlike structure in twisted bilayer graphene. Physical Review B, 2020, 102, .	3.2	8
4	Porosity and Fractality of MoS2 and MoS2/Co-catalytic Spheres. , 2019, , 151-166.		0
5	Beating Heterogeneity of Single-Site Catalysts: MgO-Supported Iridium Complexes. ACS Catalysis, 2018, 8, 3489-3498.	11.2	64
6	Perfect Strain Relaxation in Metamorphic Epitaxial Aluminum on Silicon through Primary and Secondary Interface Misfit Dislocation Arrays. ACS Nano, 2018, 12, 6843-6850.	14.6	17
7	Metamorphic growth of relaxed single crystalline aluminum on silicon (111). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	2.1	17
8	Recovering fine details from under-resolved electron tomography data using higher order total variation <mml:math altimg="si0004.gif" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mml="http: 1998="" altimg="si0004.gif" math="" mathml"="" overflow="scroll" www.w3.org=""><mml:msub subscriptshift="65%"><mml:msub subscriptshift="65%"><mml:mrow><mml:mo>â""</mml:mo></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:msub></mml:mml="http:></mml:math>	1.9 • <td>24 row></td>	24 row>
9	Electron tomography and fractal aspects of MoS2 and MoS2/Co spheres. Scientific Reports, 2017, 7, 12322.	3.3	12
10	Nucleation and growth of metamorphic epitaxial aluminum on silicon (111) 7 × 7 and surfaces. Journal of Materials Research, 2017, 32, 4067-4075.	2.6	5
11	Improved Three-Dimensional (3D) Resolution of Electron Tomograms Using Robust Mathematical Data-Processing Techniques. Microscopy and Microanalysis, 2017, 23, 1121-1129.	0.4	4
12	In-situ, Ex-situ, and 3-D Imaging of Nanomaterials in the STEM. Microscopy and Microanalysis, 2017, 23, 1870-1871.	0.4	0
13	Current status and future directions for in situ transmission electron microscopy. Ultramicroscopy, 2016, 170, 86-95.	1.9	181
14	Improving Stability of Zeolites in Aqueous Phase via Selective Removal of Structural Defects. Journal of the American Chemical Society, 2016, 138, 4408-4415.	13.7	79
15	Gaining Control over Radiolytic Synthesis of Uniform Sub-3-nanometer Palladium Nanoparticles: Use of Aromatic Liquids in the Electron Microscope. Langmuir, 2016, 32, 1468-1477.	3.5	47
16	Controlled Radiolytic Synthesis in the Fluid Stage. Towards Understanding the Effect of the Electron Beam in Liquids. Microscopy and Microanalysis, 2015, 21, 2125-2126.	0.4	0
17	Genesis of Delaminated-Zeolite Morphology: 3-D Characterization of Changes by STEM Tomography. Journal of Physical Chemistry Letters, 2015, 6, 2598-2602.	4.6	5
18	Impact of Aqueous Medium on Zeolite Framework Integrity. Chemistry of Materials, 2015, 27, 3533-3545.	6.7	50

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19	The potential for Bayesian compressive sensing to significantly reduce electron dose in high-resolution STEM images. Microscopy (Oxford, England), 2014, 63, 41-51.	1.5	140
20	Material profile influences in bulk-heterojunctions. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 1291-1300.	2.1	9
21	<i>In-Situ</i> Electrochemical Transmission Electron Microscopy for Battery Research. Microscopy and Microanalysis, 2014, 20, 484-492.	0.4	45
22	In Situ Observation of Directed Nanoparticle Aggregation During the Synthesis of Ordered Nanoporous Metal in Soft Templates. Chemistry of Materials, 2014, 26, 1426-1433.	6.7	14
23	Direct Observation of Aggregative Nanoparticle Growth: Kinetic Modeling of the Size Distribution and Growth Rate. Nano Letters, 2014, 14, 373-378.	9.1	172
24	Probing the Degradation Mechanisms in Electrolyte Solutions for Li-Ion Batteries by in Situ Transmission Electron Microscopy. Nano Letters, 2014, 14, 1293-1299.	9.1	137
25	Demonstration of an Electrochemical Liquid Cell for Operando Transmission Electron Microscopy Observation of the Lithiation/Delithiation Behavior of Si Nanowire Battery Anodes. Nano Letters, 2013, 13, 6106-6112.	9.1	265
26	Experimental procedures to mitigate electron beam induced artifacts during in situ fluid imaging of nanomaterials. Ultramicroscopy, 2013, 127, 53-63.	1.9	176
27	Threeâ€Ðimensional Concentration Mapping of Organic Blends. Advanced Functional Materials, 2013, 23, 2115-2122.	14.9	64
28	Atomic-Scale Imaging and Spectroscopy for <i>In Situ</i> Liquid Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2012, 18, 621-627.	0.4	125
29	Direct <i>in Situ</i> Observation of Nanoparticle Synthesis in a Liquid Crystal Surfactant Template. ACS Nano, 2012, 6, 3589-3596.	14.6	93
30	Direct <i>in Situ</i> Determination of the Mechanisms Controlling Nanoparticle Nucleation and Growth. ACS Nano, 2012, 6, 8599-8610.	14.6	378
31	Visualizing macromolecular complexes with in situ liquid scanning transmission electron microscopy. Micron, 2012, 43, 1085-1090.	2.2	89
32	Seeing atoms in three dimensions. Nature Materials, 2012, 11, 911-912.	27.5	11
33	Controlled Growth of Nanoparticles from Solution with In Situ Liquid Transmission Electron Microscopy. Nano Letters, 2011, 11, 2809-2813.	9.1	332
34	Three-Dimensional Pore Evolution of Nanoporous Metal Particles for Energy Storage. Journal of the American Chemical Society, 2011, 133, 9144-9147.	13.7	41
35	III-nitride nanowires: growth, properties, and applications. , 2010, , .		0
36	Scalable synthesis of nanoporous palladium powders. International Journal of Hydrogen Energy, 2009, 34, 5585-5591.	7.1	31

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#	Article	IF	CITATIONS
37	Using Electrons As a High-Resolution Probe of Optical Modes in Individual Nanowires. Nano Letters, 2009, 9, 4073-4077.	9.1	20
38	Towards better 3-D reconstructions by combining electron tomography and atom-probe tomography. Ultramicroscopy, 2008, 108, 1579-1585.	1.9	112
39	Toward Three-Dimensional Nanoengineering of Heterogeneous Catalysts. Journal of the American Chemical Society, 2008, 130, 5716-5719.	13.7	63
40	Three-Dimensional Visualization of Surface Defects in Coreâ^'Shell Nanowires. Journal of Physical Chemistry C, 2008, 112, 11093-11097.	3.1	18
41	A novel dual-axis iterative algorithm for electron tomography. Journal of Structural Biology, 2006, 153, 55-63.	2.8	70
42	Nano-metrology of platinum-ruthenium bimetallic catalysts and the cluster-to-crystal transformation. Journal of Physics: Conference Series, 2006, 26, 207-210.	0.4	3
43	Reducing the missing wedge: High-resolution dual axis tomography of inorganic materials. Ultramicroscopy, 2006, 106, 994-1000.	1.9	144
44	Atomic scale defect analysis in the scanning transmission electron microscope. Microscopy Research and Technique, 2006, 69, 330-342.	2.2	2
45	Highly aligned, template-free growth and characterization of vertical GaN nanowires on sapphire by metal–organic chemical vapour deposition. Nanotechnology, 2006, 17, 5773-5780.	2.6	159
46	Atomic and Electronic Structure of Mixed and Partial Dislocations in GaN. Physical Review Letters, 2005, 94, 025504.	7.8	59
47	Direct visualisation, by aberration-corrected electron microscopy, of the crystallisation of bimetallic nanoparticle catalysts. Chemical Communications, 2005, , 5805.	4.1	19
48	The Chemical Application of High-Resolution Electron Tomography: Bright Field or Dark Field?. Angewandte Chemie - International Edition, 2004, 43, 6745-6747.	13.8	64
49	Examining Elemental Surface Enrichment in Ultrafine Aerosol Particles Using Analytical Scanning Transmission Electron Microscopy. Aerosol Science and Technology, 2004, 38, 365-381.	3.1	21