

Jacob Madsen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/255326/publications.pdf>

Version: 2024-02-01

19
papers

372
citations

1163117

8
h-index

996975

15
g-index

21
all docs

21
docs citations

21
times ranked

522
citing authors

#	ARTICLE	IF	CITATIONS
1	A Deep Learning Approach to Identify Local Structures in Atomic-Resolution Transmission Electron Microscopy Images. <i>Advanced Theory and Simulations</i> , 2018, 1, 1800037.	2.8	139
2	The abTEM code: transmission electron microscopy from first principles. <i>Open Research Europe</i> , 0, 1, 24.	2.0	67
3	Efficient first principles simulation of electron scattering factors for transmission electron microscopy. <i>Ultramicroscopy</i> , 2019, 197, 16-22.	1.9	29
4	Atomic-Level Structural Engineering of Graphene on a Mesoscopic Scale. <i>Nano Letters</i> , 2021, 21, 5179-5185.	9.1	24
5	abTEM: <i>ab Initio</i> Transmission Electron Microscopy Image Simulation. <i>Microscopy and Microanalysis</i> , 2020, 26, 448-450.	0.4	22
6	Accuracy of surface strain measurements from transmission electron microscopy images of nanoparticles. <i>Advanced Structural and Chemical Imaging</i> , 2017, 3, 14.	4.0	16
7	The abTEM code: transmission electron microscopy from first principles. <i>Open Research Europe</i> , 0, 1, 24.	2.0	14
8	Interferometric 4D-STEM for Lattice Distortion and Interlayer Spacing Measurements of Bilayer and Trilayer 2D Materials. <i>Small</i> , 2021, 17, e2100388.	10.0	13
9	<i>ab initio</i> description of bonding for transmission electron microscopy. <i>Ultramicroscopy</i> , 2021, 231, 113253.	1.9	12
10	Mechanism of Electron-Beam Manipulation of Single-Dopant Atoms in Silicon. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16041-16048.	3.1	10
11	Step-By-Step Atomic Insights into Structural Reordering from 2D to 3D MoS ₂ . <i>Advanced Functional Materials</i> , 2021, 31, 2008395.	14.9	9
12	Automated Real-time Analysis of Atomic-resolution STEM Images. <i>Microscopy and Microanalysis</i> , 2019, 25, 166-167.	0.4	4
13	Reversible and concerted atom diffusion on supported gold nanoparticles. <i>JPhys Materials</i> , 2020, 3, 024009.	4.2	4
14	Identifying Atoms in High Resolution Transmission Electron Micrographs Using a Deep Convolutional Neural Net. <i>Microscopy and Microanalysis</i> , 2018, 24, 512-513.	0.4	3
15	Using Neural Networks to Identify Atoms in HRTEM Images. <i>Microscopy and Microanalysis</i> , 2019, 25, 216-217.	0.4	2
16	Spatio-temporally resolved in situ transmission electron microscopy of the dynamics of nanostructured materials. <i>Microscopy and Microanalysis</i> , 2017, 23, 902-903.	0.4	0
17	Approaches to Quantifying the Dynamics of Nanostructures using in situ Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 1938-1939.	0.4	0
18	In situ Probing of Nanostructure Surfaces. <i>Microscopy and Microanalysis</i> , 2019, 25, 2080-2081.	0.4	0

#	ARTICLE	IF	CITATIONS
19	Temperature-dependent displacement cross section of graphene and its impurities: measuring the carbon adatom migration barrier. <i>Microscopy and Microanalysis</i> , 2021, 27, 3340-3340.	0.4	0