

LluÃ-s Yedra

List of Publications by Year in descending order

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31
papers

975
citations

759233

12
h-index

580821

25
g-index

32
all docs

32
docs citations

32
times ranked

1968
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning from Nature to Improve the Heat Generation of Iron-Oxide Nanoparticles for Magnetic Hyperthermia Applications. Scientific Reports, 2013, 3, 1652.	3.3	442
2	Multi-scale and spatially resolved hydrogen mapping in a Ni–Nb model alloy reveals the role of the γ' phase in hydrogen embrittlement of alloy 718. Acta Materialia, 2016, 109, 69-81.	7.9	116
3	3D Visualization of the Iron Oxidation State in FeO/Fe ₃ O ₄ Core–Shell Nanocubes from Electron Energy Loss Tomography. Nano Letters, 2016, 16, 5068-5073.	9.1	56
4	Direct Epitaxial Growth of Polar (1 × ×)HfO ₂ –(× ×)ZrO ₂ Ultrathin Films on Silicon. ACS Applied Electronic Materials, 2019, 1, 2585-2593.	4.3	48
5	Oxide Wizard: An EELS Application to Characterize the White Lines of Transition Metal Edges. Microscopy and Microanalysis, 2014, 20, 698-705.	0.4	38
6	EEL spectroscopic tomography: Towards a new dimension in nanomaterials analysis. Ultramicroscopy, 2012, 122, 12-18.	1.9	37
7	A new approach for 3D reconstruction from bright field TEM imaging: Beam precession assisted electron tomography. Ultramicroscopy, 2011, 111, 1504-1511.	1.9	34
8	High-temperature long-term stable ordered mesoporous Ni–CGO as an anode for solid oxide fuel cells. Journal of Materials Chemistry A, 2013, 1, 4531.	10.3	31
9	Correlative microscopy combining transmission electron microscopy and secondary ion mass spectrometry: A general review on the state-of-the-art, recent developments, and prospects. Applied Physics Reviews, 2019, 6, .	11.3	25
10	In-situ Isotopic Analysis at Nanoscale using Parallel Ion Electron Spectrometry: A Powerful New Paradigm for Correlative Microscopy. Scientific Reports, 2016, 6, 28705.	3.3	23
11	High-surface-area ordered mesoporous oxides for continuous operation in high temperature energy applications. Journal of Materials Chemistry A, 2014, 2, 3134.	10.3	21
12	Hantzsch dihydropyridines: Privileged structures for the formation of well-defined gold nanostars. Journal of Colloid and Interface Science, 2015, 453, 260-269.	9.4	18
13	Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co ₃ O ₄ replicas with ferrimagnetic Fe ₃ Co ₃ ×O ₄ nanolayers. Nanoscale, 2013, 5, 5561.	5.6	12
14	EELS tomography in multiferroic nanocomposites: from spectrum images to the spectrum volume. Nanoscale, 2014, 6, 6646-6650.	5.6	11
15	Direct imaging of dopant distributions across the Si-metallization interfaces in solar cells: Correlative nano-analytics by electron microscopy and NanoSIMS. Solar Energy Materials and Solar Cells, 2017, 160, 398-409.	6.2	11
16	Direct Measurement of Oxygen Mass Transport at the Nanoscale. Advanced Materials, 2021, 33, e2105622.	21.0	11
17	Correlative electron and ion beam analysis of the electrochemical performances of LiV ₃ O ₈ cathode films as a function of microstructures. Journal of Power Sources, 2020, 463, 228177.	7.8	6
18	Patterning enhanced tetragonality in BiFeO_3 thin films with effective negative pressure by helium implantation. Physical Review Materials, 2021, 5, .	2.4	6

#	ARTICLE	IF	CITATIONS
19	Domain structure and dielectric properties of metal-ferroelectric superlattices with asymmetric interfaces. <i>Physical Review Materials</i> , 2020, 4, .	2.4	6
20	Insight on precipitate evolution during additive manufacturing of stainless steels via in-situ heating-cooling experiments in a transmission electron microscope. <i>Materialia</i> , 2022, 21, 101368.	2.7	6
21	Nucleation and growth of oxide particles on a binary Fe-Mn (1â€wt. %) alloy during annealing. <i>Corrosion Science</i> , 2020, 177, 108952.	6.6	5
22	A correlative method to quantitatively image trace concentrations of elements by combined SIMS-EDX analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 56-63.	3.0	5
23	EELS signal enhancement by means of beam precession in the TEM. <i>Ultramicroscopy</i> , 2012, 116, 135-137.	1.9	3
24	Electron energy-loss spectroscopic tomography of $\text{Fe}_x\text{Co}(3-x)\text{O}_4$ impregnated Co_3O_4 mesoporous particles: unraveling the chemical information in three dimensions. <i>Analyst</i> , The, 2016, 141, 4968-4972.	3.5	3
25	In Situ Correlative Microscopy Combining Transmission Electron Microscopy and Secondary Ion Mass Spectrometry. <i>Microscopy and Microanalysis</i> , 2018, 24, 380-381.	0.4	1
26	Parallel Ion Electron Spectrometry (PIES): A New Paradigm for High-Resolution High-Sensitivity Characterization based on integrated TEM-SIMS. <i>Microscopy and Microanalysis</i> , 2015, 21, 1859-1860.	0.4	0
27	Distinguishing Isotopes in the Electron Microscope: In-situ TEM-SIMS Correlative Analysis. <i>Microscopy and Microanalysis</i> , 2016, 22, 222-223.	0.4	0
28	HIM-SIMS: Correlative SE/Chemical Imaging at the Limits of Resolution.. <i>Microscopy and Microanalysis</i> , 2017, 23, 278-279.	0.4	0
29	Secondary Ion Mass Spectrometry in the TEM: Isotope Specific High Resolution Correlative Imaging.. <i>Microscopy and Microanalysis</i> , 2017, 23, 316-317.	0.4	0
30	Shape Determination in Lithium-Ion Battery Cathode Materials Using Electron Diffraction-Assisted Electron Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 1824-1825.	0.4	0
31	In situ TEM Characterization of Phase Transformations and Kirkendall Void Formation During Annealing of a $\text{Cu}\text{-Au}\text{-Sn}\text{-Cu}$ Diffusion Bonding Joint. <i>Journal of Electronic Materials</i> , 2022, 51, 1568.	2.2	0