# 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 | In situ TEM Characterization of Phase Transformations and Kirkendall Void Formation During Annealing of a Cuâ€“Auâ€“Snâ€“Cu Diffusion Bonding Joint. Journal of Electronic Materials, 2022, 51, 1568. | 2.2 | 0 |
| 2 | Insight on precipitate evolution during additive manufacturing of stainless steels via in-situ heating-cooling experiments in a transmission electron microscope. Materialia, 2022, 21, 101368. | 2.7 | 6 |
| 3 | A correlative method to quantitatively image trace concentrations of elements by combined SIMS-EDX analysis. Journal of Analytical Atomic Spectrometry, 2021, 36, 56-63. | 3.0 | 5 |
| 4 | Patterning enhanced tetragonality in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Bi</mml:mi><mml:mi>Fe</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> thin films with effective negative pressure by helium implantation. Physical Review Materials, 2021, 5, . | 2.4 | 6 |
| 5 | Direct Measurement of Oxygen Mass Transport at the Nanoscale. Advanced Materials, 2021, 33, e2105622. | 21.0 | 11 |
| 6 | Nucleation and growth of oxide particles on a binary Fe-Mn (1â€¯wt. %) alloy during annealing. Corrosion Science, 2020, 177, 108952. | 6.6 | 5 |
| 7 | Correlative electron and ion beam analysis of the electrochemical performances of LiV3O8 cathode films as a function of microstructures. Journal of Power Sources, 2020, 463, 228177. | 7.8 | 6 |
| 8 | Domain structure and dielectric properties of metal-ferroelectric superlattices with asymmetric interfaces. Physical Review Materials, 2020, 4, . | 2.4 | 6 |
| 9 | Shape Determination in Lithium-Ion Battery Cathode Materials Using Electron Diffraction-Assisted Electron Tomography. Microscopy and Microanalysis, 2019, 25, 1824-1825. | 0.4 | 0 |
| 10 | 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 |
| 11 | Direct Epitaxial Growth of Polar (1 â€" <i>x</i>)HfO<sub>2</sub>â€"(<i>x</i>)ZrO<sub>2</sub> Ultrathin Films on Silicon. ACS Applied Electronic Materials, 2019, 1, 2585-2593. | 4.3 | 48 |
| 12 | In Situ Correlative Microscopy Combining Transmission Electron Microscopy and Secondary Ion Mass Spectrometry. Microscopy and Microanalysis, 2018, 24, 380-381. | 0.4 | 1 |
| 13 | HIM-SIMS: Correlative SE/Chemical Imaging at the Limits of Resolution.. Microscopy and Microanalysis, 2017, 23, 278-279. | 0.4 | 0 |
| 14 | Secondary Ion Mass Spectrometry in the TEM: Isotope Specific High Resolution Correlative Imaging.. Microscopy and Microanalysis, 2017, 23, 316-317. | 0.4 | 0 |
| 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 | 3D Visualization of the Iron Oxidation State in FeO/Fe<sub>3</sub>O<sub>4</sub>Coreâ€"Shell Nanocubes from Electron Energy Loss Tomography. Nano Letters, 2016, 16, 5068-5073. | 9.1 | 56 |
| 17 | Electron energy-loss spectroscopic tomography of FexCo(3â^'x)O4 impregnated Co3O4 mesoporous particles: unraveling the chemical information in three dimensions. Analyst, The, 2016, 141, 4968-4972. | 3.5 | 3 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Distinguishing Isotopes in the Electron Microscope: In-situ TEM-SIMS Correlative Analysis. Microscopy and Microanalysis, 2016, 22, 222-223. | 0.4 | 0 |
| 20 | Multi-scale and spatially resolved hydrogen mapping in a Niâ€“Nb model alloy reveals the role of the Î´ phase in hydrogen embrittlement of alloy 718. Acta Materialia, 2016, 109, 69-81. | 7.9 | 116 |
| 21 | Parallel Ion Electron Spectrometry (PIES): A New Paradigm for High-Resolution High-Sensitivity Characterization based on integrated TEM-SIMS. Microscopy and Microanalysis, 2015, 21, 1859-1860. | 0.4 | 0 |
| 22 | 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 |
| 23 | Oxide Wizard: An EELS Application to Characterize the White Lines of Transition Metal Edges. Microscopy and Microanalysis, 2014, 20, 698-705. | 0.4 | 38 |
| 24 | EELS tomography in multiferroic nanocomposites: from spectrum images to the spectrum volume. Nanoscale, 2014, 6, 6646-6650. | 5.6 | 11 |
| 25 | 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 |
| 26 | High-temperature long-term stable ordered mesoporous Niâ€“CGO as an anode for solid oxide fuel cells. Journal of Materials Chemistry A, 2013, 1, 4531. | 10.3 | 31 |
| 27 | Learning from Nature to Improve the Heat Generation of Iron-Oxide Nanoparticles for Magnetic Hyperthermia Applications. Scientific Reports, 2013, 3, 1652. | 3.3 | 442 |
| 28 | Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co3O4 replicas with ferrimagnetic FexCo3âˆ’xO4 nanolayers. Nanoscale, 2013, 5, 5561. | 5.6 | 12 |
| 29 | EEL spectroscopic tomography: Towards a new dimension in nanomaterials analysis. Ultramicroscopy, 2012, 122, 12-18. | 1.9 | 37 |
| 30 | EELS signal enhancement by means of beam precession in the TEM. Ultramicroscopy, 2012, 116, 135-137. | 1.9 | 3 |
| 31 | A new approach for 3D reconstruction from bright field TEM imaging: Beam precession assisted electron tomography. Ultramicroscopy, 2011, 111, 1504-1511. | 1.9 | 34 |