

Patricia Abellan

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56
papers

1,494
citations

20
h-index

38
g-index

59
ext. papers

1,641
ext. citations

5
avg, IF

4.47
L-index

#	Paper	IF	Citations
56	Demonstration of an electrochemical liquid cell for operando transmission electron microscopy observation of the lithiation/delithiation behavior of Si nanowire battery anodes. <i>Nano Letters</i> , 2013 , 13, 6106-12	11.5	232
55	Observing the growth of metal-organic frameworks by in situ liquid cell transmission electron microscopy. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7322-8	16.4	155
54	Probing the degradation mechanisms in electrolyte solutions for Li-ion batteries by in situ transmission electron microscopy. <i>Nano Letters</i> , 2014 , 14, 1293-9	11.5	119
53	Factors influencing quantitative liquid (scanning) transmission electron microscopy. <i>Chemical Communications</i> , 2014 , 50, 4873-80	5.8	117
52	Defining the radiation chemistry during liquid cell electron microscopy to enable visualization of nanomaterial growth and degradation dynamics. <i>Journal of Microscopy</i> , 2017 , 265, 135-147	1.9	108
51	Micro-to nano-scale characterisation of polyamide structures of the SW30HR RO membrane using advanced electron microscopy and stain tracers. <i>Journal of Membrane Science</i> , 2016 , 520, 465-476	9.6	86
50	Dynamics of soft nanomaterials captured by transmission electron microscopy in liquid water. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1162-5	16.4	81
49	Applying compressive sensing to TEM video: a substantial frame rate increase on any camera. <i>Advanced Structural and Chemical Imaging</i> , 2015 , 1,	3.9	44
48	The formation of cerium(III) hydroxide nanoparticles by a radiation mediated increase in local pH. <i>RSC Advances</i> , 2017 , 7, 3831-3837	3.7	42
47	Gaining Control over Radiolytic Synthesis of Uniform Sub-3-nanometer Palladium Nanoparticles: Use of Aromatic Liquids in the Electron Microscope. <i>Langmuir</i> , 2016 , 32, 1468-77	4	41
46	In-situ electrochemical transmission electron microscopy for battery research. <i>Microscopy and Microanalysis</i> , 2014 , 20, 484-92	0.5	39
45	Transmission Electron Microscopy Reveals Deposition of Metal Oxide Coatings onto Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1348-1357	16.4	36
44	Spontaneous Outcropping of Self-Assembled Insulating Nanodots in Solution-Derived Metallic Ferromagnetic La _{0.7} Sr _{0.3} MnO ₃ Films. <i>Advanced Functional Materials</i> , 2009 , 19, 2139-2146	15.6	32
43	Interaction between solution derived BaZrO ₃ nanodot interfacial templates and YBa ₂ Cu ₃ O ₇ films leading to enhanced critical currents. <i>Acta Materialia</i> , 2011 , 59, 2075-2082	8.4	29
42	Nanoscale magnetic structure and properties of solution-derived self-assembled La _{0.7} Sr _{0.3} MnO ₃ islands. <i>Journal of Applied Physics</i> , 2012 , 111, 024307	2.5	27
41	Tunable Low Density Palladium Nanowire Foams. <i>Chemistry of Materials</i> , 2017 , 29, 9814-9818	9.6	25
40	Tip-enhanced Raman nanographs: mapping topography and local electric fields. <i>Nano Letters</i> , 2015 , 15, 2385-90	11.5	25

39	Orientation and shape selection of self-assembled epitaxial Ce _{1-x} Gd _x O ₂ nanostructures grown by chemical solution deposition. <i>CrystEngComm</i> , 2011 , 13, 6719	3.3	24
38	Microscopy of nanoparticulate dispersions. <i>Journal of Microscopy</i> , 2015 , 260, 238-47	1.9	23
37	A (S)TEM gas cell holder with localized laser heating for in situ experiments. <i>Microscopy and Microanalysis</i> , 2013 , 19, 470-8	0.5	23
36	Self-organized Ce(1-x)Gd(x)O(2-y) nanowire networks with very fast coarsening driven by attractive elastic interactions. <i>Small</i> , 2010 , 6, 2716-24	11	20
35	Electric field enhancement in a self-assembled 2D array of silver nanospheres. <i>Journal of Chemical Physics</i> , 2014 , 141, 214308	3.9	18
34	Visualizing surface plasmons with photons, photoelectrons, and electrons. <i>Analyst, The</i> , 2016 , 141, 3562-72	7	16
33	Misfit relaxation of La _{0.7} Sr _{0.3} MnO ₃ thin films by a nanodot segregation mechanism. <i>Applied Physics Letters</i> , 2011 , 98, 041903	3.4	15
32	Chemical solution approaches to YBa ₂ Cu ₃ O _{7-δ} -Au nanocomposite superconducting thin films. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 3245-55	1.3	15
31	In Situ Observation of Directed Nanoparticle Aggregation During the Synthesis of Ordered Nanoporous Metal in Soft Templates. <i>Chemistry of Materials</i> , 2014 , 26, 1426-1433	9.6	13
30	Orientational ordering of solution derived epitaxial Gd-doped ceria nanowires induced by nanoscratching. <i>Nanotechnology</i> , 2010 , 21, 025302	3.4	13
29	Photoemission electron microscopy study of sub-200 nm self-assembled La _{1-x} Br _x La _{1-x} MnO ₃ epitaxial islands. <i>Nanoscale</i> , 2013 , 5, 2990-8	7.7	9
28	The information content in single-molecule Raman nanoscopy. <i>Advances in Physics: X</i> , 2016 , 1, 35-54	5.1	8
27	Electron Microscopy Reveals Structural and Chemical Changes at the Nanometer Scale in the Pathology. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2788-2797	5.5	7
26	Nanocomposite lanthanum strontium manganite thin films formed by using a chemical solution deposition. <i>Applied Physics Letters</i> , 2012 , 100, 023103	3.4	7
25	Synergistic Coupling of a Molybdenum Carbide Nanosphere with Pt Nanoparticles for Enhanced Ammonia Electro-Oxidation Activity in Alkaline Media. <i>ACS Applied Energy Materials</i> , 2020 , 3, 843-851	6.1	7
24	Nanoscale Chemical Heterogeneity in Aromatic Polyamide Membranes for Reverse Osmosis Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19890-19902	9.5	6
23	Strain Relaxation of Self-Nanostructured Solution Derived La _{0.7} Sr _{0.3} MnO ₃ Films. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1174, 1		4
22	Liquid Cell Electron Microscopy for the Study of Growth Dynamics of Nanomaterials and Structure of Soft Matter 2018 , 1-31		3

21	Interface structure governed by plastic and structural dissimilarity in perovskite La _{0.7} Sr _{0.3} MnO ₃ nanodots on rock-salt MgO substrates. <i>Applied Physics Letters</i> , 2012 , 100, 083104	3.4	3
20	Epitaxial growth of Al on Si(111) with Cu buffer layers. <i>Surface Science</i> , 2006 , 600, 610-616	1.8	3
19	Mapping VIS-terahertz (17 THz) surface plasmons sustained on native and chemically functionalized percolated gold thin films using EELS. <i>Microscopy (Oxford, England)</i> , 2018 , 67, i30-i39	1.3	3
18	Systematic Analysis of the Coupling Effects within Supported Plasmonic Nanorod Antenna Arrays. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 22041-22053	3.8	3
17	Harnessing Control of Radiolysis during Liquid Cell Electron Microscopy to Enable Visualization of Nanomaterial Transformation Dynamics. <i>Microscopy and Microanalysis</i> , 2016 , 22, 40-41	0.5	2
16	Transmission electron microscopy of a model crystalline organic, theophylline. <i>Journal of Physics: Conference Series</i> , 2015 , 644, 012030	0.3	2
15	Temperature-dependent structural characterization of silicon nanowires 2010 ,		2
14	Local Variations of Cation Composition on a Nanometer-Sized Scale in a YBa ₂ Cu ₃ O _{6.92} Superconductor. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016 , 29, 1139-1143	1.5	2
13	Analytical STEM Investigation of the Post-Synthetic Modification (PMS) of Metal-Organic Frameworks (MOFs): Metal- and Ligand-Exchange in UiO-66. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1970-1971 ¹	0.5	1
12	Implementing in situ Experiments in Liquids in the (Scanning) Transmission Electron Microscope ((S)TEM) and Dynamic TEM (DTEM). <i>Microscopy and Microanalysis</i> , 2014 , 20, 1648-1649	0.5	1
11	Investigating Molecule-plasmon Interactions in Chemically-functionalized Metal Nanoparticles Using Monochromated EELS. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1540-1541	0.5	1
10	High gas pressure / high temperature in situ investigation of nanomaterials by STEM-EELS. <i>Microscopy and Microanalysis</i> , 2012 , 18, 1170-1171	0.5	1
9	TEM for Characterization of Nanocomposite Oxide Thin Films: A Case Study on Solution-Derived Lanthanum Strontium Manganites 2014 , 537-575		1
8	In Situ Observation of Directed Nanoparticle Aggregation During the Synthesis of Ordered Nanoporous Metal in Soft Templates. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1600-1601	0.5	0
7	Determination of the key structural factors affecting permeability and selectivity of PAN and PES polymeric filtration membranes using 3D FIB/SEM. <i>Journal of Membrane Science</i> , 2022 , 120530	9.6	0
6	Direct Observation of Electrolyte Degradation Mechanisms in Li-Ion Batteries. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1624-1625	0.5	
5	Fabrication and Characterisation of an Adaptable Plasmonic Nanorod Array for Solar Energy Conversion. <i>Journal of Physics: Conference Series</i> , 2017 , 902, 012025	0.3	
4	Controlled Radiolytic Synthesis in the Fluid Stage. Towards Understanding the Effect of the Electron Beam in Liquids. <i>Microscopy and Microanalysis</i> , 2015 , 21, 2125-2126	0.5	

- 3 The effect of interfaces in liquid phase electron microscopy from an empirical viewpoint.
Microscopy and Microanalysis, **2021**, 27, 1048-1049 0.5
- 2 Investigating Surface Plasmon-Enhanced Local Electric Fields by EELS with tunable **2016**, 1136-1137
- 1 The Determining Role of Solution Chemistry in Radiation-Induced Nanoparticles Synthesis in the STEM **2016**, 31-32