

Patricia Abellan

List of Publications by Year in descending order

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56
papers

1,816
citations

331259

21
h-index

264894

42
g-index

59
all docs

59
docs citations

59
times ranked

3034
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 653, 120530.	4.1	13
2	Application of a Cryo-FIB-SEM-1/4Raman Instrument to Probe the Depth of Vitreous Ice in a Frozen Sample. <i>Analytical Chemistry</i> , 2022, 94, 8120-8125.	3.2	2
3	The effect of interfaces in liquid phase electron microscopy from an empirical viewpoint. <i>Microscopy and Microanalysis</i> , 2021, 27, 1048-1049.	0.2	0
4	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.	2.5	16
5	Nanoscale Chemical Heterogeneity in Aromatic Polyamide Membranes for Reverse Osmosis Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19890-19902.	4.0	12
6	Preface to the special issue on liquid-phase electron microscopy. <i>Micron</i> , 2019, 119, 117-118.	1.1	0
7	Liquid Cell Electron Microscopy for the Study of Growth Dynamics of Nanomaterials and Structure of Soft Matter. , 2018, , 1-31.		4
8	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.	6.6	51
9	Systematic Analysis of the Coupling Effects within Supported Plasmonic Nanorod Antenna Arrays. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22041-22053.	1.5	3
10	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.	0.2	3
11	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.	0.7	3
12	The formation of cerium(III) hydroxide nanoparticles by a radiation mediated increase in local pH. <i>RSC Advances</i> , 2017, 7, 3831-3837.	1.7	55
13	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.	0.8	142
14	Tunable Low Density Palladium Nanowire Foams. <i>Chemistry of Materials</i> , 2017, 29, 9814-9818.	3.2	32
15	Electron Microscopy Reveals Structural and Chemical Changes at the Nanometer Scale in the Osteogenesis Imperfecta Murine Pathology. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2788-2797.	2.6	9
16	Investigating Molecule-plasmon Interactions in Chemically-functionalized Metal Nanoparticles Using Monochromated EELS. <i>Microscopy and Microanalysis</i> , 2017, 23, 1540-1541.	0.2	1
17	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	0
18	Visualizing surface plasmons with photons, photoelectrons, and electrons. <i>Analyst, The</i> , 2016, 141, 3562-3572.	1.7	19

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19	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.	0.8	2
20	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.	4.1	107
21	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.	0.2	3
22	The information content in single-molecule Raman nanoscopy. <i>Advances in Physics: X</i> , 2016, 1, 35-54.	1.5	8
23	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, 1468-1477.	1.6	47
24	Applying compressive sensing to TEM video: a substantial frame rate increase on any camera. <i>Advanced Structural and Chemical Imaging</i> , 2015, 1, .	4.0	55
25	Microscopy of nanoparticulate dispersions. <i>Journal of Microscopy</i> , 2015, 260, 238-247.	0.8	25
26	Transmission electron microscopy of a model crystalline organic, theophylline. <i>Journal of Physics: Conference Series</i> , 2015, 644, 012030.	0.3	2
27	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.	0.2	0
28	Observing the Growth of Metal-Organic Frameworks by <i>in Situ</i> Liquid Cell Transmission Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 7322-7328.	6.6	207
29	Tip-Enhanced Raman Nanographs: Mapping Topography and Local Electric Fields. <i>Nano Letters</i> , 2015, 15, 2385-2390.	4.5	26
30	Electric field enhancement in a self-assembled 2D array of silver nanospheres. <i>Journal of Chemical Physics</i> , 2014, 141, 214308.	1.2	20
31	<i>in Situ</i> Electrochemical Transmission Electron Microscopy for Battery Research. <i>Microscopy and Microanalysis</i> , 2014, 20, 484-492.	0.2	45
32	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.	3.2	14
33	Dynamics of Soft Nanomaterials Captured by Transmission Electron Microscopy in Liquid Water. <i>Journal of the American Chemical Society</i> , 2014, 136, 1162-1165.	6.6	96
34	Factors influencing quantitative liquid (scanning) transmission electron microscopy. <i>Chemical Communications</i> , 2014, 50, 4873-4880.	2.2	143
35	Probing the Degradation Mechanisms in Electrolyte Solutions for Li-Ion Batteries by <i>in Situ</i> Transmission Electron Microscopy. <i>Nano Letters</i> , 2014, 14, 1293-1299.	4.5	137
36	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.	0.2	1

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37	Direct Observation of Electrolyte Degradation Mechanisms in Li-Ion Batteries. <i>Microscopy and Microanalysis</i> , 2014, 20, 1624-1625.	0.2	0
38	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.	0.2	1
39	TEM for Characterization of Nanocomposite Oxide Thin Films: A Case Study on Solution-Derived Lanthanum Strontium Manganites. , 2014, , 537-575.		1
40	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, 6106-6112.	4.5	265
41	Photoemission electron microscopy study of sub-200 nm self-assembled La _{0.7} Sr _{0.3} MnO ₃ epitaxial islands. <i>Nanoscale</i> , 2013, 5, 2990.	2.8	9
42	A (S)TEM Gas Cell Holder with Localized Laser Heating for <i>In Situ</i> Experiments. <i>Microscopy and Microanalysis</i> , 2013, 19, 470-478.	0.2	33
43	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.	1.5	3
44	Nanocomposite lanthanum strontium manganite thin films formed by using a chemical solution deposition. <i>Applied Physics Letters</i> , 2012, 100, 023103.	1.5	7
45	High gas pressure / high temperature in situ investigation of nanomaterials by STEM-EELS. <i>Microscopy and Microanalysis</i> , 2012, 18, 1170-1171.	0.2	1
46	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.	1.1	28
47	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.	1.3	25
48	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.	1.5	16
49	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, 3245-3255.	0.9	16
50	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.	3.8	30
51	Temperature-dependent structural characterization of silicon <110> nanowires. , 2010, , .		2
52	Self-Organized Ce _{1-x} Gd _x O ₂ Nanowire Networks with Very Fast Coarsening Driven by Attractive Elastic Interactions. <i>Small</i> , 2010, 6, 2716-2724.	5.2	22
53	Orientational ordering of solution derived epitaxial Gd-doped ceria nanowires induced by nanoscratching. <i>Nanotechnology</i> , 2010, 21, 025302.	1.3	14
54	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.	0.1	4

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55	Spontaneous Outcropping of Self-Assembled Insulating Nanodots in Solution-Derived Metallic Ferromagnetic $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Films. <i>Advanced Functional Materials</i> , 2009, 19, 2139-2146.	7.8	33
56	Epitaxial growth of Al on Si(111) with Cu buffer layers. <i>Surface Science</i> , 2006, 600, 610-616.	0.8	3