

Vasiliki Tileli

List of Publications by Citations

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52
papers

1,104
citations

17
h-index

31
g-index

54
ext. papers

1,506
ext. citations

9.6
avg, IF

4.68
L-index

#	Paper	IF	Citations
52	Production of phosphorene nanoribbons. <i>Nature</i> , 2019 , 568, 216-220	50.4	131
51	Nanoscale structural oscillations in perovskite oxides induced by oxygen evolution. <i>Nature Materials</i> , 2017 , 16, 121-126	27	115
50	Impact of Intermittent Operation on Lifetime and Performance of a PEM Water Electrolyzer. <i>Journal of the Electrochemical Society</i> , 2019 , 166, F487-F497	3.9	68
49	Geometrical Effect in 2D Nanopores. <i>Nano Letters</i> , 2017 , 17, 4223-4230	11.5	58
48	Single Crystal, Luminescent Carbon Nitride Nanosheets Formed by Spontaneous Dissolution. <i>Nano Letters</i> , 2017 , 17, 5891-5896	11.5	58
47	Ionic solutions of two-dimensional materials. <i>Nature Chemistry</i> , 2017 , 9, 244-249	17.6	58
46	Morphological Changes of Silicon Nanoparticles and the Influence of Cutoff Potentials in Silicon-Graphite Electrodes. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A1503-A1514	3.9	55
45	Origin of Superior HOR/HER Activity of Bimetallic Pt-Ru Catalysts in Alkaline Media Identified via Ru@Pt Core-Shell Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H229-H239	3.9	42
44	Synthesis and NIR optical properties of hollow gold nanospheres with LSPR greater than one micrometer. <i>Nanoscale</i> , 2013 , 5, 765-71	7.7	39
43	Real-time Monitoring Reveals Dissolution/Redeposition Mechanism in Copper Nanocatalysts during the Initial Stages of the CO Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1347-1354	16.4	35
42	Oxygen Evolution Reaction in BaSrCoFeO Aided by Intrinsic Co/Fe Spinel-Like Surface. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15876-15883	16.4	33
41	Modifying the Surface of a High-Voltage Lithium-Ion Cathode. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2254-2260	6.1	31
40	Structured nanoscale metallic glass fibres with extreme aspect ratios. <i>Nature Nanotechnology</i> , 2020 , 15, 875-882	28.7	30
39	Evolution of the nanostructure of deposits grown by electron beam induced deposition. <i>Applied Physics Letters</i> , 2008 , 93, 023130	3.4	27
38	Atomic-Step Enriched Ruthenium/Iridium Nanocrystals Anchored Homogeneously on MOF-Derived Support for Efficient and Stable Oxygen Evolution in Acidic and Neutral Media. <i>ACS Catalysis</i> , 2021 , 11, 3402-3413	13.1	23
37	Aluminum catalyzed growth of silicon nanowires: Al atom location and the influence of silicon precursor pressure on the morphology. <i>Journal of Crystal Growth</i> , 2012 , 341, 12-18	1.6	22
36	Multi-channel nanowire devices for efficient power conversion. <i>Nature Electronics</i> , 2021 , 4, 284-290	28.4	18

35	On stoichiometry and intermixing at the spinel/perovskite interface in CoFe ₂ O ₄ /BaTiO ₃ thin films. <i>Nanoscale</i> , 2015 , 7, 218-24	7.7	17
34	Structure of low-density nanoporous dielectrics revealed by low-vacuum electron microscopy and small-angle X-ray scattering. <i>Langmuir</i> , 2007 , 23, 353-6	4	16
33	Growth mechanism and magnetism of CoFe ₂ O ₄ thin films; Role of the substrate. <i>Journal of Alloys and Compounds</i> , 2013 , 578, 286-291	5.7	14
32	The Effect of Surface Reconstruction on the Oxygen Reduction Reaction Properties of LaMnO ₃ . <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11621-11627	3.8	13
31	Optimizing Oxygen Reduction Catalyst Morphologies from First Principles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16804-16810	3.8	13
30	InAs(1-x)P(x) nanowires grown by catalyst-free molecular-beam epitaxy. <i>Nanotechnology</i> , 2013 , 24, 085704	9.4	13
29	Growth of Epitaxial Oxide Thin Films on Graphene. <i>Scientific Reports</i> , 2016 , 6, 31511	4.9	12
28	Electron-beam induced photoresist shrinkage influence on 2D profiles 2010 ,		12
27	Deciphering Surface Enhanced Raman Scattering Activity of Gold Nanoworms through Optical Correlations. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20515-20522	3.8	11
26	Phosphorene Nanoribbon-Augmented Optoelectronics for Enhanced Hole Extraction.. <i>Journal of the American Chemical Society</i> , 2021 , 143, 21549-21559	16.4	11
25	The emergence of magnetic ordering at complex oxide interfaces tuned by defects. <i>Nature Communications</i> , 2020 , 11, 3650	17.4	10
24	Switchable wetting of oxygen-evolving oxide catalysts.. <i>Nature Catalysis</i> , 2022 , 5, 30-36	36.5	10
23	Al catalyzed growth of silicon nanowires and subsequent in situ dry etching of the catalyst for photovoltaic application. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 2676-2680	1.6	9
22	Patterned growth of high aspect ratio silicon wire arrays at moderate temperature. <i>Journal of Crystal Growth</i> , 2011 , 321, 151-156	1.6	9
21	Phenomenology of electron-beam-induced photoresist shrinkage trends 2009 ,		9
20	High-temperature conductivity evaluation of Nb doped SrTiO ₃ thin films: Influence of strain and growth mechanism. <i>Thin Solid Films</i> , 2013 , 539, 384-390	2.2	8
19	Induced giant piezoelectricity in centrosymmetric oxides.. <i>Science</i> , 2022 , 375, 653-657	33.3	8
18	Electrochemical Behavior of Carbon Electrodes for Redox Studies in a Transmission Electron Microscope. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1304-1310	0.5	7

17	Comment on "2D atomic mapping of oxidation states in transition metal oxides by scanning transmission electron microscopy and electron energy-loss spectroscopy". <i>Physical Review Letters</i> , 2012 , 108, 259701; discussion 259702	7.4	7
16	Real-time Monitoring Reveals Dissolution/Redeposition Mechanism in Copper Nanocatalysts during the Initial Stages of the CO ₂ Reduction Reaction. <i>Angewandte Chemie</i> , 2021 , 133, 1367-1374	3.6	7
15	Electrochemical Functionalization of Selectively Addressed MoS ₂ Nanoribbons for Sensor Device Fabrication. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1076-1084	5.6	7
14	Local hard and soft pinning of 180° domain walls in BaTiO ₃ probed by in situ transmission electron microscopy. <i>Physical Review Materials</i> , 2020 , 4,	3.2	6
13	Lithium-Gold Reference Electrode for Potential Stability During In Situ Electron Microscopy Studies of Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 110515	3.9	6
12	Charge/discharge cycling of Li _{1+x} (Ni _{0.6} Co _{0.2} Mn _{0.2}) _{1-x} O ₂ primary particles performed in a liquid microcell for transmission electron microscopy studies. <i>JPhys Energy</i> , 2020 , 2, 034007	4.9	5
11	Noise characteristics of the gas ionization cascade used in low vacuum scanning electron microscopy. <i>Journal of Applied Physics</i> , 2009 , 106, 014904	2.5	5
10	A Method for Spatial Quantification of Water in Microporous Layers of Polymer Electrolyte Fuel Cells by X-ray Tomographic Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16227-16237	9.5	5
9	Multi-modal and multi-scale non-local means method to analyze spectroscopic datasets. <i>Ultramicroscopy</i> , 2020 , 209, 112877	3.1	3
8	Low Voltage and Low Vacuum- When worlds Collide. <i>Microscopy and Microanalysis</i> , 2006 , 12, 1436-1437	0.5	2
7	Individual Barkhausen Pulses of Ferroelastic Nanodomains. <i>Physical Review Letters</i> , 2021 , 127, 167601	7.4	2
6	Challenges and Applications to and TEM Imaging and Spectroscopic Capabilities in a Cryogenic Temperature Range. <i>Accounts of Chemical Research</i> , 2021 ,	24.3	2
5	Modeling Noise in Gas Cascade Secondary Electron Amplifiers. <i>Microscopy and Microanalysis</i> , 2006 , 12, 1482-1483	0.5	1
4	Latent Mechanisms of Polarization Switching from In Situ Electron Microscopy Observations. <i>Advanced Functional Materials</i> , 2100271	15.6	1
3	Electron probing of the oxygen evolving Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} <i>Microscopy and Microanalysis</i> , 2021 , 27, 2438-2439	0.5	0
2	Operando and in situ in a TEM imaging in a cryogenic temperature range. <i>Microscopy and Microanalysis</i> , 2021 , 27, 386-387	0.5	
1	Decoupling of valence and coordination number contributions at perovskite surfaces 2016 , 934-935		