Vasiliki Tileli

List of Publications by Year in Descending Order

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	Induced giant piezoelectricity in centrosymmetric oxides.. *Science*, **2022**, 375, 653-657	33.3	8
51	Switchable wetting of oxygen-evolving oxide catalysts.. *Nature Catalysis*, **2022**, 5, 30-36	36.5	10
50	Individual Barkhausen Pulses of Ferroelastic Nanodomains. *Physical Review Letters*, **2021**, 127, 167601	7.4	2
49	A Method for Spatial Quantification of Water in Microporous Layers of Polymer Electrolyte Fuel Cells by X-ray Tomographic Microscopy. *ACS Applied Materials & Interfaces*, **2021**, 13, 16227-16237	9.5	5
48	Multi-channel nanowire devices for efficient power conversion. *Nature Electronics*, **2021**, 4, 284-290	28.4	18
47	Electron probing of the oxygen evolving Ba0.5Sr0.5Co0.8Fe0.2O3-□*Microscopy and Microanalysis*, **2021**, 27, 2438-2439	0.5	0
46	Operando and in situ in a TEM imaging in a cryogenic temperature range. *Microscopy and Microanalysis*, **2021**, 27, 386-387	0.5	
45	Real-time Monitoring Reveals Dissolution/Redeposition Mechanism in Copper Nanocatalysts during the Initial Stages of the CO2 Reduction Reaction. *Angewandte Chemie*, **2021**, 133, 1367-1374	3.6	7
44	Real-time Monitoring Reveals Dissolution/Redeposition Mechanism in Copper Nanocatalysts during the Initial Stages of the CO Reduction Reaction. *Angewandte Chemie - International Edition*, **2021**, 60, 1347-1354	16.4	35
43	Electrochemical Functionalization of Selectively Addressed MoS2 Nanoribbons for Sensor Device Fabrication. *ACS Applied Nano Materials*, **2021**, 4, 1076-1084	5.6	7
42	Atomic-Step Enriched Ruthenium□Iridium Nanocrystals Anchored Homogeneously on MOF-Derived Support for Efficient and Stable Oxygen Evolution in Acidic and Neutral Media. *ACS Catalysis*, **2021**, 11, 3402-3413	13.1	23
41	Challenges and Applications to and TEM Imaging and Spectroscopic Capabilities in a Cryogenic Temperature Range. *Accounts of Chemical Research*, **2021**,	24.3	2
40	Phosphorene Nanoribbon-Augmented Optoelectronics for Enhanced Hole Extraction.. *Journal of the American Chemical Society*, **2021**, 143, 21549-21559	16.4	11
39	Charge/discharge cycling of Li1+x(Ni0.6Co0.2Mn0.2)1□O2 primary particles performed in a liquid microcell for transmission electron microscopy studies. *JPhys Energy*, **2020**, 2, 034007	4.9	5
38	Local hard and soft pinning of 180□domain walls in BaTiO3 probed by in situ transmission electron microscopy. *Physical Review Materials*, **2020**, 4,	3.2	6
37	Lithium-Gold Reference Electrode for Potential Stability During In Situ Electron Microscopy Studies of Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2020**, 167, 110515	3.9	6
36	Multi-modal and multi-scale non-local means method to analyze spectroscopic datasets. *Ultramicroscopy*, **2020**, 209, 112877	3.1	3

35	The emergence of magnetic ordering at complex oxide interfaces tuned by defects. *Nature Communications*, **2020**, 11, 3650	17.4	10
34	Structured nanoscale metallic glass fibres with extreme aspect ratios. *Nature Nanotechnology*, **2020**, 15, 875-882	28.7	30
33	Oxygen Evolution Reaction in BaSrCoFeO Aided by Intrinsic Co/Fe Spinel-Like Surface. *Journal of the American Chemical Society*, **2020**, 142, 15876-15883	16.4	33
32	Impact of Intermittent Operation on Lifetime and Performance of a PEM Water Electrolyzer. *Journal of the Electrochemical Society*, **2019**, 166, F487-F497	3.9	68
31	Production of phosphorene nanoribbons. *Nature*, **2019**, 568, 216-220	50.4	131
30	The Effect of Surface Reconstruction on the Oxygen Reduction Reaction Properties of LaMnO3. *Journal of Physical Chemistry C*, **2019**, 123, 11621-11627	3.8	13
29	Electrochemical Behavior of Carbon Electrodes for Redox Studies in a Transmission Electron Microscope. *Microscopy and Microanalysis*, **2019**, 25, 1304-1310	0.5	7
28	Modifying the Surface of a High-Voltage Lithium-Ion Cathode. *ACS Applied Energy Materials*, **2018**, 1, 2254-2260	6.1	31
27	Origin of Superior HOR/HER Activity of Bimetallic Pt-Ru Catalysts in Alkaline Media Identified via Ru@Pt Core-Shell Nanoparticles. *Journal of the Electrochemical Society*, **2018**, 165, H229-H239	3.9	42
26	Morphological Changes of Silicon Nanoparticles and the Influence of Cutoff Potentials in Silicon-Graphite Electrodes. *Journal of the Electrochemical Society*, **2018**, 165, A1503-A1514	3.9	55
25	Geometrical Effect in 2D Nanopores. *Nano Letters*, **2017**, 17, 4223-4230	11.5	58
24	Single Crystal, Luminescent Carbon Nitride Nanosheets Formed by Spontaneous Dissolution. *Nano Letters*, **2017**, 17, 5891-5896	11.5	58
23	Nanoscale structural oscillations in perovskite oxides induced by oxygen evolution. *Nature Materials*, **2017**, 16, 121-126	27	115
22	Ionic solutions of two-dimensional materials. *Nature Chemistry*, **2017**, 9, 244-249	17.6	58
21	Growth of Epitaxial Oxide Thin Films on Graphene. *Scientific Reports*, **2016**, 6, 31511	4.9	12
20	Decoupling of valence and coordination number contributions at perovskite surfaces **2016**, 934-935		
19	Optimizing Oxygen Reduction Catalyst Morphologies from First Principles. *Journal of Physical Chemistry C*, **2015**, 119, 16804-16810	3.8	13
18	On stoichiometry and intermixing at the spinel/perovskite interface in CoFe2O4/BaTiO3 thin films. *Nanoscale*, **2015**, 7, 218-24	7.7	17

17	High-temperature conductivity evaluation of Nb doped SrTiO3 thin films: Influence of strain and growth mechanism. *Thin Solid Films*, **2013**, 539, 384-390	2.2	8
16	Synthesis and NIR optical properties of hollow gold nanospheres with LSPR greater than one micrometer. *Nanoscale*, **2013**, 5, 765-71	7.7	39
15	InAs(1-x)P(x) nanowires grown by catalyst-free molecular-beam epitaxy. *Nanotechnology*, **2013**, 24, 085707	3.4	13
14	Growth mechanism and magnetism of CoFe2O4 thin films; Role of the substrate. *Journal of Alloys and Compounds*, **2013**, 578, 286-291	5.7	14
13	Aluminum catalyzed growth of silicon nanowires: Al atom location and the influence of silicon precursor pressure on the morphology. *Journal of Crystal Growth*, **2012**, 341, 12-18	1.6	22
12	Comment on "2D atomic mapping of oxidation states in transition metal oxides by scanning transmission electron microscopy and electron energy-loss spectroscopy". *Physical Review Letters*, **2012**, 108, 259701; discussion 259702	7.4	7
11	Al catalyzed growth of silicon nanowires and subsequent in situ dry etching of the catalyst for photovoltaic application. *Physica Status Solidi (A) Applications and Materials Science*, **2011**, 208, 2676-2680	1.6	9
10	Deciphering Surface Enhanced Raman Scattering Activity of Gold Nanoworms through Optical Correlations. *Journal of Physical Chemistry C*, **2011**, 115, 20515-20522	3.8	11
9	Patterned growth of high aspect ratio silicon wire arrays at moderate temperature. *Journal of Crystal Growth*, **2011**, 321, 151-156	1.6	9
8	Electron-beam induced photoresist shrinkage influence on 2D profiles **2010**,		12
7	Noise characteristics of the gas ionization cascade used in low vacuum scanning electron microscopy. *Journal of Applied Physics*, **2009**, 106, 014904	2.5	5
6	Phenomenology of electron-beam-induced photoresist shrinkage trends **2009**,		9
5	Evolution of the nanostructure of deposits grown by electron beam induced deposition. *Applied Physics Letters*, **2008**, 93, 023130	3.4	27
4	Structure of low-density nanoporous dielectrics revealed by low-vacuum electron microscopy and small-angle X-ray scattering. *Langmuir*, **2007**, 23, 353-6	4	16
3	Modeling Noise in Gas Cascade Secondary Electron Amplifiers. *Microscopy and Microanalysis*, **2006**, 12, 1482-1483	0.5	1
2	Low Voltage and Low Vacuum- When worlds Collide. *Microscopy and Microanalysis*, **2006**, 12, 1436-1437	0.5	2
1	Latent Mechanisms of Polarization Switching from In Situ Electron Microscopy Observations. *Advanced Functional Materials*,2100271	15.6	1