

Hanna Sopha

List of Publications by Year in descending order

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79
papers

1,852
citations

185998

28
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288905

40
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81
all docs

81
docs citations

81
times ranked

2165
citing authors

#	ARTICLE	IF	CITATIONS
1	TiO ₂ nanotube layers decorated by titania nanoparticles as anodes for Li-ion microbatteries. <i>Materials Chemistry and Physics</i> , 2022, 276, 125337.	2.0	9
2	Enzyme-Photocatalyst Tandem Microrobot Powered by Urea for <i>Escherichia coli</i> Biofilm Eradication. <i>Small</i> , 2022, 18, e2106612.	5.2	41
3	Bipolar Electrochemistry for the Synthesis of Anodic TiO ₂ Nanotube Layers. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1978-1978.	0.0	0
4	Large-Scale Synthesis of Photocatalytic TiO ₂ Nanotube Layers. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1587-1587.	0.0	0
5	Recent Advancements in Morphologies of TiO ₂ Nanotube Layers and Their Photocatalytic Performance. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1586-1586.	0.0	0
6	Scaling up anodic TiO ₂ nanotube layers – Influence of the nanotube layer thickness on the photocatalytic degradation of hexane and benzene. <i>Applied Materials Today</i> , 2022, 29, 101567.	2.3	6
7	Laser Annealing of Anodic TiO ₂ Nanotubes: Explosive Solid Phase Crystallization into Anatase. , 2021, , .		0
8	High aspect ratio TiO ₂ nanotube layers obtained in a very short anodization time. <i>Electrochimica Acta</i> , 2021, 376, 138080.	2.6	34
9	High Aspect Ratio TiO ₂ Nanotube Layers via Galvanostatic Anodization in an Electrolyte Containing Lactic Acid. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100146.	1.2	3
10	(Invited) Anodic TiO ₂ Nanotube Layers: Efficient Photocatalyst. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1928-1928.	0.0	0
11	High Aspect Ratio TiO ₂ Nanotube Layers Obtained in a Short Time. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 791-791.	0.0	0
12	Secondary Material Modified Anodic TiO ₂ Nanotube Layers As Efficient Gas Sensors. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1483-1483.	0.0	0
13	Anodic TiO ₂ nanotube walls reconstructed: Inner wall replaced by ALD TiO ₂ coating. <i>Applied Surface Science</i> , 2021, 549, 149306.	3.1	20
14	Anodic TiO ₂ Nanotube Layers As Scaffolds for Deposition of Functional Materials. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 926-926.	0.0	0
15	2D MoTe ₂ nanosheets by atomic layer deposition: Excellent photo- electrocatalytic properties. <i>Applied Materials Today</i> , 2021, 23, 101017.	2.3	12
16	Wireless Anodization of Ti in Closed Bipolar Cells. <i>ChemElectroChem</i> , 2021, 8, 3827-3831.	1.7	4
17	Anodic TiO ₂ Nanotubes on 3D-Printed Titanium Meshes for Photocatalytic Applications. <i>Nano Letters</i> , 2021, 21, 8701-8706.	4.5	36
18	New Protocols for the Synthesis of Anodic TiO ₂ Nanotube Layers. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 601-601.	0.0	0

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19	Anodic TiO ₂ Nanotube Layers: Efficient Photocatalyst. ECS Meeting Abstracts, 2021, MA2021-02, 1439-1439.	0.0	0
20	Atomic Layer Deposition for Modification of Various 1D Nanomaterials. ECS Meeting Abstracts, 2021, MA2021-02, 905-905.	0.0	0
21	2D Molybdenum Dichalcogenides by Atomic Layer Deposition. ECS Meeting Abstracts, 2021, MA2021-02, 903-903.	0.0	0
22	Ti ³⁺ doped anodic single-wall TiO ₂ nanotubes as highly efficient photocatalyst. Electrochimica Acta, 2020, 331, 135374.	2.6	38
23	One-Step Decoration of TiO ₂ Nanotubes with Fe ₃ O ₄ Nanoparticles: Synthesis and Photocatalytic and Magnetic Properties. ACS Applied Nano Materials, 2020, 3, 1553-1563.	2.4	63
24	Anodization of electrodeposited titanium films towards TiO ₂ nanotube layers. Electrochemistry Communications, 2020, 118, 106788.	2.3	19
25	Atomic Layer Deposition of MoSe ₂ Nanosheets on TiO ₂ Nanotube Arrays for Photocatalytic Dye Degradation and Electrocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2020, 3, 12034-12045.	2.4	25
26	Thin TiO ₂ Coatings by ALD Enhance the Cell Growth on TiO ₂ Nanotubular and Flat Substrates. ACS Applied Bio Materials, 2020, 3, 6447-6456.	2.3	27
27	TiO ₂ Nanotube Layers Decorated with Al ₂ O ₃ /MoS ₂ /Al ₂ O ₃ as Anode for Li-ion Microbatteries with Enhanced Cycling Stability. Nanomaterials, 2020, 10, 953.	1.9	9
28	Laser-induced crystallization of anodic TiO ₂ nanotube layers. RSC Advances, 2020, 10, 22137-22145.	1.7	23
29	Atomic Layer Deposition of SnO ₂ -Coated Anodic One-Dimensional TiO ₂ Nanotube Layers for Low Concentration NO ₂ Sensing. ACS Applied Materials & Interfaces, 2020, 12, 33386-33396.	4.0	28
30	Complex cytotoxicity mechanism of bundles formed from self-organised 1-D anodic TiO ₂ nanotubes layers. Journal of Hazardous Materials, 2020, 388, 122054.	6.5	22
31	Fabrication of TiO ₂ nanotubes on Ti spheres using bipolar electrochemistry. Electrochemistry Communications, 2020, 111, 106669.	2.3	26
32	Recent advancements in the synthesis, properties, and applications of anodic self-organized TiO ₂ nanotube layers. , 2020, , 173-209.		6
33	Intrinsic properties of high-aspect ratio single- and double-wall anodic TiO ₂ nanotube layers annealed at different temperatures. Electrochimica Acta, 2020, 352, 136479.	2.6	34
34	Molybdenum Disulfides and Diselenides By Atomic Layer Deposition. ECS Meeting Abstracts, 2020, MA2020-01, 837-837.	0.0	1
35	Anodic TiO ₂ Nanotube Layers As Scaffolds for Deposition of Functional Materials. ECS Meeting Abstracts, 2020, MA2020-01, 1202-1202.	0.0	0
36	Anodic TiO ₂ Nanotube Layers: Efficient Photocatalyst. ECS Meeting Abstracts, 2020, MA2020-02, 3061-3061.	0.0	0

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37	Recent Progress in Anodic TiO ₂ Nanotube Layer Synthesis. ECS Meeting Abstracts, 2020, MA2020-02, 1200-1200.	0.0	0
38	Sulfur treated 1D anodic TiO ₂ nanotube layers for significant photo- and electroactivity enhancement. Applied Materials Today, 2019, 17, 104-111.	2.3	10
39	ALD growth of MoS ₂ nanosheets on TiO ₂ nanotube supports. FlatChem, 2019, 17, 100130.	2.8	22
40	Amorphous TiO ₂ Nanotubes as a Platform for Highly Selective Phosphopeptide Enrichment. ACS Omega, 2019, 4, 12156-12166.	1.6	13
41	TiO ₂ ALD Coating of Amorphous TiO ₂ Nanotube Layers: Inhibition of the Structural and Morphological Changes Due to Water Annealing. Frontiers in Chemistry, 2019, 7, 38.	1.8	17
42	Self-supported sulphurized TiO ₂ nanotube layers as positive electrodes for lithium microbatteries. Applied Materials Today, 2019, 16, 257-264.	2.3	10
43	2D MoS ₂ nanosheets on 1D anodic TiO ₂ nanotube layers: an efficient co-catalyst for liquid and gas phase photocatalysis. Nanoscale, 2019, 11, 23126-23131.	2.8	34
44	One-dimensional anodic TiO ₂ nanotubes coated by atomic layer deposition: Towards advanced applications. Applied Materials Today, 2019, 14, 1-20.	2.3	78
45	Bismuth Oxychloride Nanoplatelets by Breakdown Anodization. ChemElectroChem, 2019, 6, 336-341.	1.7	6
46	Self-organized TiO ₂ nanotubes grown on Ti substrates with different crystallographic preferential orientations: Local structure of TiO ₂ nanotubes vs. photo-electrochemical response. Electrochimica Acta, 2018, 264, 393-399.	2.6	27
47	Pt nanoparticles decorated TiO ₂ nanotubes for the reduction of olefins. Applied Materials Today, 2018, 10, 86-92.	2.3	18
48	TiO ₂ nanotubes grown on Ti substrates with different microstructure. Materials Research Bulletin, 2018, 103, 197-204.	2.7	29
49	ZnO Coated Anodic 1D TiO ₂ Nanotube Layers: Efficient Photoelectrochemical and Gas Sensing Heterojunction. Advanced Engineering Materials, 2018, 20, 1700589.	1.6	48
50	MoSe ₂ Coated 1D TiO ₂ Nanotube Layers: Efficient Interface for Light-Driven Applications. Advanced Materials Interfaces, 2018, 5, 1701146.	1.9	16
51	Photoconductive, dielectric and percolation properties of anodic TiO ₂ nanotubes studied by terahertz spectroscopy. Journal Physics D: Applied Physics, 2018, 51, 014004.	1.3	3
52	Comparison of photoelectrochemical performance of anodic single- and double-walled TiO ₂ nanotube layers. Electrochemistry Communications, 2018, 97, 1-5.	2.3	34
53	Scaling up anodic TiO ₂ nanotube layers for gas phase photocatalysis. Electrochemistry Communications, 2018, 97, 91-95.	2.3	37
54	Anodic TiO ₂ nanotubes decorated by Pt nanoparticles using ALD: An efficient electrocatalyst for methanol oxidation. Journal of Catalysis, 2018, 365, 86-93.	3.1	45

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55	A 1D conical nanotubular TiO ₂ /CdS heterostructure with superior photon-to-electron conversion. <i>Nanoscale</i> , 2018, 10, 16601-16612.	2.8	39
56	Electrochemical Infilling of CuInSe ₂ within TiO ₂ Nanotube Layers and Subsequent Photoelectrochemical Studies. <i>ChemElectroChem</i> , 2017, 4, 495-499.	1.7	44
57	TiO ₂ Nanotube/Chalcogenide-Based Photoelectrochemical Cell: Nanotube Diameter Dependence Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6065-6071.	1.5	22
58	ALD Al ₂ O ₃ -Coated TiO ₂ Nanotube Layers as Anodes for Lithium-Ion Batteries. <i>ACS Omega</i> , 2017, 2, 2749-2756.	1.6	60
59	CdS-coated TiO ₂ nanotube layers: downscaling tube diameter towards efficient heterostructured photoelectrochemical conversion. <i>Nanoscale</i> , 2017, 9, 7755-7759.	2.8	38
60	Highly efficient photoelectrochemical and photocatalytic anodic TiO ₂ nanotube layers with additional TiO ₂ coating. <i>Applied Materials Today</i> , 2017, 9, 104-110.	2.3	83
61	Atomic Layer Deposition Al ₂ O ₃ Coatings Significantly Improve Thermal, Chemical, and Mechanical Stability of Anodic TiO ₂ Nanotube Layers. <i>Langmuir</i> , 2017, 33, 3208-3216.	1.6	44
62	Preparation of porcupine-like Bi ₂ O ₃ needle bundles by anodic oxidation of bismuth. <i>Electrochemistry Communications</i> , 2017, 84, 6-9.	2.3	7
63	Ideally Hexagonally Ordered TiO ₂ Nanotube Arrays. <i>ChemistryOpen</i> , 2017, 6, 480-483.	0.9	10
64	New Interface for Purification of Proteins: One-Dimensional TiO ₂ Nanotubes Decorated by Fe ₃ O ₄ Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28233-28242.	4.0	25
65	Self-organized double-wall oxide nanotube layers on glass-forming Ti-Zr-Si(-Nb) alloys. <i>Materials Science and Engineering C</i> , 2017, 70, 258-263.	3.8	9
66	Influence of annealing temperatures on the properties of low aspect-ratio TiO ₂ nanotube layers. <i>Electrochimica Acta</i> , 2016, 213, 452-459.	2.6	79
67	Charge transport in anodic TiO ₂ nanotubes studied by terahertz spectroscopy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 691-695.	1.2	21
68	Atomic Layer Deposition for Coating of High Aspect Ratio TiO ₂ Nanotube Layers. <i>Langmuir</i> , 2016, 32, 10551-10558.	1.6	74
69	Self-organized Anodic TiO ₂ Nanotube Layers: Influence of the Ti substrate on Nanotube Growth and Dimensions. <i>Electrochimica Acta</i> , 2016, 190, 744-752.	2.6	40
70	Influence of the Ti microstructure on anodic self-organized TiO ₂ nanotube layers produced in ethylene glycol electrolytes. <i>Applied Surface Science</i> , 2016, 371, 607-612.	3.1	36
71	Antireflection In ₂ O ₃ coatings of self-organized TiO ₂ nanotube layers prepared by atomic layer deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 516-520.	1.2	13
72	Macroporous Bismuth Film Screen-Printed Carbon Electrode for Simultaneous Determination of Ni(II) and Co(II). <i>Electroanalysis</i> , 2015, 27, 209-216.	1.5	25

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73	Effect of electrolyte age and potential changes on the morphology of TiO ₂ nanotubes. <i>Journal of Electroanalytical Chemistry</i> , 2015, 759, 122-128.	1.9	67
74	Wireless Electrosampling of Heavy Metals for Stripping Analysis with Bismuth-Based Janus Particles. <i>Analytical Chemistry</i> , 2014, 86, 10515-10519.	3.2	15
75	In-situ plated antimony film electrode for adsorptive cathodic stripping voltammetric measurement of trace nickel. <i>Electrochemistry Communications</i> , 2012, 20, 23-25.	2.3	36
76	Bismuth film electrode for stripping voltammetric measurement of sildenafil citrate. <i>Electrochimica Acta</i> , 2012, 60, 274-277.	2.6	38
77	A New Type of Bismuth Electrode for Electrochemical Stripping Analysis Based on the Ammonium Tetrafluorobismuthate Bulk-Modified Carbon Paste. <i>Electroanalysis</i> , 2010, 22, 1489-1493.	1.5	41
78	Insights into the simultaneous chronopotentiometric stripping measurement of indium(III), thallium(I) and zinc(II) in acidic medium at the in situ prepared antimony film carbon paste electrode. <i>Electrochimica Acta</i> , 2010, 55, 7929-7933.	2.6	40
79	Cathodic adsorptive stripping voltammetric detection of tRNA by labelling with osmium tetroxide. <i>Electrochemistry Communications</i> , 2008, 10, 1614-1616.	2.3	13