

# Hanna Sopha

## List of Publications by Year in descending order

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79  
papers

1,852  
citations

185998

28  
h-index

288905

40  
g-index

81  
all docs

81  
docs citations

81  
times ranked

2165  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly efficient photoelectrochemical and photocatalytic anodic TiO <sub>2</sub> nanotube layers with additional TiO <sub>2</sub> coating. Applied Materials Today, 2017, 9, 104-110.	2.3	83
2	Influence of annealing temperatures on the properties of low aspect-ratio TiO <sub>2</sub> nanotube layers. Electrochimica Acta, 2016, 213, 452-459.	2.6	79
3	One-dimensional anodic TiO <sub>2</sub> nanotubes coated by atomic layer deposition: Towards advanced applications. Applied Materials Today, 2019, 14, 1-20.	2.3	78
4	Atomic Layer Deposition for Coating of High Aspect Ratio TiO <sub>2</sub> Nanotube Layers. Langmuir, 2016, 32, 10551-10558.	1.6	74
5	Effect of electrolyte age and potential changes on the morphology of TiO <sub>2</sub> nanotubes. Journal of Electroanalytical Chemistry, 2015, 759, 122-128.	1.9	67
6	One-Step Decoration of TiO <sub>2</sub> Nanotubes with Fe <sub>3</sub> O <sub>4</sub> Nanoparticles: Synthesis and Photocatalytic and Magnetic Properties. ACS Applied Nano Materials, 2020, 3, 1553-1563.	2.4	63
7	ALD Al <sub>2</sub> O <sub>3</sub> -Coated TiO <sub>2</sub> Nanotube Layers as Anodes for Lithium-Ion Batteries. ACS Omega, 2017, 2, 2749-2756.	1.6	60
8	ZnO Coated Anodic 1D TiO <sub>2</sub> Nanotube Layers: Efficient Photoelectrochemical and Gas Sensing Heterojunction. Advanced Engineering Materials, 2018, 20, 1700589.	1.6	48
9	Anodic TiO <sub>2</sub> nanotubes decorated by Pt nanoparticles using ALD: An efficient electrocatalyst for methanol oxidation. Journal of Catalysis, 2018, 365, 86-93.	3.1	45
10	Electrochemical Infilling of CuInSe <sub>2</sub> within TiO <sub>2</sub> Nanotube Layers and Subsequent Photoelectrochemical Studies. ChemElectroChem, 2017, 4, 495-499.	1.7	44
11	Atomic Layer Deposition Al <sub>2</sub> O <sub>3</sub> Coatings Significantly Improve Thermal, Chemical, and Mechanical Stability of Anodic TiO <sub>2</sub> Nanotube Layers. Langmuir, 2017, 33, 3208-3216.	1.6	44
12	A New Type of Bismuth Electrode for Electrochemical Stripping Analysis Based on the Ammonium Tetrafluorobismuthate Bulk-Modified Carbon Paste. Electroanalysis, 2010, 22, 1489-1493.	1.5	41
13	Enzyme-Photocatalyst Tandem Microrobot Powered by Urea for <i>Escherichia coli</i> Biofilm Eradication. Small, 2022, 18, e2106612.	5.2	41
14	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. Electrochimica Acta, 2010, 55, 7929-7933.	2.6	40
15	Self-organized Anodic TiO <sub>2</sub> Nanotube Layers: Influence of the Ti substrate on Nanotube Growth and Dimensions. Electrochimica Acta, 2016, 190, 744-752.	2.6	40
16	A 1D conical nanotubular TiO <sub>2</sub> /CdS heterostructure with superior photon-to-electron conversion. Nanoscale, 2018, 10, 16601-16612.	2.8	39
17	Bismuth film electrode for stripping voltammetric measurement of sildenafil citrate. Electrochimica Acta, 2012, 60, 274-277.	2.6	38
18	CdS-coated TiO <sub>2</sub> nanotube layers: downscaling tube diameter towards efficient heterostructured photoelectrochemical conversion. Nanoscale, 2017, 9, 7755-7759.	2.8	38

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19	Ti <sup>3+</sup> doped anodic single-wall TiO <sub>2</sub> nanotubes as highly efficient photocatalyst. <i>Electrochimica Acta</i> , 2020, 331, 135374.	2.6	38
20	Scaling up anodic TiO <sub>2</sub> nanotube layers for gas phase photocatalysis. <i>Electrochemistry Communications</i> , 2018, 97, 91-95.	2.3	37
21	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
22	Influence of the Ti microstructure on anodic self-organized TiO <sub>2</sub> nanotube layers produced in ethylene glycol electrolytes. <i>Applied Surface Science</i> , 2016, 371, 607-612.	3.1	36
23	Anodic TiO <sub>2</sub> Nanotubes on 3D-Printed Titanium Meshes for Photocatalytic Applications. <i>Nano Letters</i> , 2021, 21, 8701-8706.	4.5	36
24	Comparison of photoelectrochemical performance of anodic single- and double-walled TiO <sub>2</sub> nanotube layers. <i>Electrochemistry Communications</i> , 2018, 97, 1-5.	2.3	34
25	2D MoS <sub>2</sub> nanosheets on 1D anodic TiO <sub>2</sub> nanotube layers: an efficient co-catalyst for liquid and gas phase photocatalysis. <i>Nanoscale</i> , 2019, 11, 23126-23131.	2.8	34
26	High aspect ratio TiO <sub>2</sub> nanotube layers obtained in a very short anodization time. <i>Electrochimica Acta</i> , 2021, 376, 138080.	2.6	34
27	Intrinsic properties of high-aspect ratio single- and double-wall anodic TiO <sub>2</sub> nanotube layers annealed at different temperatures. <i>Electrochimica Acta</i> , 2020, 352, 136479.	2.6	34
28	TiO <sub>2</sub> nanotubes grown on Ti substrates with different microstructure. <i>Materials Research Bulletin</i> , 2018, 103, 197-204.	2.7	29
29	Atomic Layer Deposition of SnO <sub>2</sub> -Coated Anodic One-Dimensional TiO <sub>2</sub> Nanotube Layers for Low Concentration NO <sub>2</sub> Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 33386-33396.	4.0	28
30	Self-organized TiO <sub>2</sub> nanotubes grown on Ti substrates with different crystallographic preferential orientations: Local structure of TiO <sub>2</sub> nanotubes vs. photo-electrochemical response. <i>Electrochimica Acta</i> , 2018, 264, 393-399.	2.6	27
31	Thin TiO <sub>2</sub> Coatings by ALD Enhance the Cell Growth on TiO <sub>2</sub> Nanotubular and Flat Substrates. <i>ACS Applied Bio Materials</i> , 2020, 3, 6447-6456.	2.3	27
32	Fabrication of TiO <sub>2</sub> nanotubes on Ti spheres using bipolar electrochemistry. <i>Electrochemistry Communications</i> , 2020, 111, 106669.	2.3	26
33	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
34	New Interface for Purification of Proteins: One-Dimensional TiO <sub>2</sub> Nanotubes Decorated by Fe <sub>3</sub> O <sub>4</sub> Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 28233-28242.	4.0	25
35	Atomic Layer Deposition of MoSe <sub>2</sub> Nanosheets on TiO <sub>2</sub> Nanotube Arrays for Photocatalytic Dye Degradation and Electrocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020, 3, 12034-12045.	2.4	25
36	Laser-induced crystallization of anodic TiO <sub>2</sub> nanotube layers. <i>RSC Advances</i> , 2020, 10, 22137-22145.	1.7	23

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37	TiO <sub>2</sub> Nanotube/Chalcogenide-Based Photoelectrochemical Cell: Nanotube Diameter Dependence Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6065-6071.	1.5	22
38	ALD growth of MoS <sub>2</sub> nanosheets on TiO <sub>2</sub> nanotube supports. <i>FlatChem</i> , 2019, 17, 100130.	2.8	22
39	Complex cytotoxicity mechanism of bundles formed from self-organised 1-D anodic TiO <sub>2</sub> nanotubes layers. <i>Journal of Hazardous Materials</i> , 2020, 388, 122054.	6.5	22
40	Charge transport in anodic TiO <sub>2</sub> nanotubes studied by terahertz spectroscopy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 691-695.	1.2	21
41	Anodic TiO <sub>2</sub> nanotube walls reconstructed: Inner wall replaced by ALD TiO <sub>2</sub> coating. <i>Applied Surface Science</i> , 2021, 549, 149306.	3.1	20
42	Anodization of electrodeposited titanium films towards TiO <sub>2</sub> nanotube layers. <i>Electrochemistry Communications</i> , 2020, 118, 106788.	2.3	19
43	Pt nanoparticles decorated TiO <sub>2</sub> nanotubes for the reduction of olefins. <i>Applied Materials Today</i> , 2018, 10, 86-92.	2.3	18
44	TiO <sub>2</sub> ALD Coating of Amorphous TiO <sub>2</sub> Nanotube Layers: Inhibition of the Structural and Morphological Changes Due to Water Annealing. <i>Frontiers in Chemistry</i> , 2019, 7, 38.	1.8	17
45	MoSe <sub>2</sub> /TiO <sub>2</sub> Coated 1D TiO <sub>2</sub> Nanotube Layers: Efficient Interface for Light-Driven Applications. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701146.	1.9	16
46	Wireless Electrosampling of Heavy Metals for Stripping Analysis with Bismuth-Based Janus Particles. <i>Analytical Chemistry</i> , 2014, 86, 10515-10519.	3.2	15
47	Cathodic adsorptive stripping voltammetric detection of tRNA by labelling with osmium tetroxide. <i>Electrochemistry Communications</i> , 2008, 10, 1614-1616.	2.3	13
48	Antireflection In <sub>2</sub> O <sub>3</sub> coatings of self-organized TiO <sub>2</sub> nanotube layers prepared by atomic layer deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 516-520.	1.2	13
49	Amorphous TiO <sub>2</sub> Nanotubes as a Platform for Highly Selective Phosphopeptide Enrichment. <i>ACS Omega</i> , 2019, 4, 12156-12166.	1.6	13
50	2D MoTe <sub>2</sub> nanosheets by atomic layer deposition: Excellent photo- electrocatalytic properties. <i>Applied Materials Today</i> , 2021, 23, 101017.	2.3	12
51	Ideally Hexagonally Ordered TiO <sub>2</sub> Nanotube Arrays. <i>ChemistryOpen</i> , 2017, 6, 480-483.	0.9	10
52	Sulfur treated 1D anodic TiO <sub>2</sub> nanotube layers for significant photo- and electroactivity enhancement. <i>Applied Materials Today</i> , 2019, 17, 104-111.	2.3	10
53	Self-supported sulphurized TiO <sub>2</sub> nanotube layers as positive electrodes for lithium microbatteries. <i>Applied Materials Today</i> , 2019, 16, 257-264.	2.3	10
54	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

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55	TiO <sub>2</sub> Nanotube Layers Decorated with Al <sub>2</sub> O <sub>3</sub> /MoS <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> as Anode for Li-ion Microbatteries with Enhanced Cycling Stability. <i>Nanomaterials</i> , 2020, 10, 953.	1.9	9
56	TiO <sub>2</sub> nanotube layers decorated by titania nanoparticles as anodes for Li-ion microbatteries. <i>Materials Chemistry and Physics</i> , 2022, 276, 125337.	2.0	9
57	Preparation of porcupine-like Bi <sub>2</sub> O <sub>3</sub> needle bundles by anodic oxidation of bismuth. <i>Electrochemistry Communications</i> , 2017, 84, 6-9.	2.3	7
58	Bismuth Oxychloride Nanoplatelets by Breakdown Anodization. <i>ChemElectroChem</i> , 2019, 6, 336-341.	1.7	6
59	Recent advancements in the synthesis, properties, and applications of anodic self-organized TiO <sub>2</sub> nanotube layers. , 2020, , 173-209.		6
60	Scaling up anodic TiO <sub>2</sub> 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
61	Wireless Anodization of Ti in Closed Bipolar Cells. <i>ChemElectroChem</i> , 2021, 8, 3827-3831.	1.7	4
62	Photoconductive, dielectric and percolation properties of anodic TiO <sub>2</sub> nanotubes studied by terahertz spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 014004.	1.3	3
63	High Aspect Ratio TiO <sub>2</sub> 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
64	Molybdenum Disulfides and Diselenides By Atomic Layer Deposition. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 837-837.	0.0	1
65	Laser Annealing of Anodic TiO <sub>2</sub> Nanotubes: Explosive Solid Phase Crystallization into Anatase. , 2021, , .		0
66	(Invited) Anodic TiO <sub>2</sub> Nanotube Layers: Efficient Photocatalyst. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1928-1928.	0.0	0
67	High Aspect Ratio TiO <sub>2</sub> Nanotube Layers Obtained in a Short Time. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 791-791.	0.0	0
68	Secondary Material Modified Anodic TiO <sub>2</sub> Nanotube Layers As Efficient Gas Sensors. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1483-1483.	0.0	0
69	Anodic TiO <sub>2</sub> Nanotube Layers As Scaffolds for Deposition of Functional Materials. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 926-926.	0.0	0
70	Anodic TiO <sub>2</sub> Nanotube Layers As Scaffolds for Deposition of Functional Materials. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1202-1202.	0.0	0
71	New Protocols for the Synthesis of Anodic TiO <sub>2</sub> Nanotube Layers. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 601-601.	0.0	0
72	Anodic TiO <sub>2</sub> Nanotube Layers: Efficient Photocatalyst. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1439-1439.	0.0	0

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73	Anodic TiO <sub>2</sub> Nanotube Layers: Efficient Photocatalyst. ECS Meeting Abstracts, 2020, MA2020-02, 3061-3061.	0.0	0
74	Recent Progress in Anodic TiO <sub>2</sub> Nanotube Layer Synthesis. ECS Meeting Abstracts, 2020, MA2020-02, 1200-1200.	0.0	0
75	Atomic Layer Deposition for Modification of Various 1D Nanomaterials. ECS Meeting Abstracts, 2021, MA2021-02, 905-905.	0.0	0
76	2D Molybdenum Dichalcogenides by Atomic Layer Deposition. ECS Meeting Abstracts, 2021, MA2021-02, 903-903.	0.0	0
77	Bipolar Electrochemistry for the Synthesis of Anodic TiO <sub>2</sub> Nanotube Layers. ECS Meeting Abstracts, 2022, MA2022-01, 1978-1978.	0.0	0
78	Large-Scale Synthesis of Photocatalytic TiO <sub>2</sub> Nanotube Layers. ECS Meeting Abstracts, 2022, MA2022-01, 1587-1587.	0.0	0
79	Recent Advancements in Morphologies of TiO <sub>2</sub> Nanotube Layers and Their Photocatalytic Performance. ECS Meeting Abstracts, 2022, MA2022-01, 1586-1586.	0.0	0