

Siowwoon Ng

List of Publications by Year in descending order

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papers

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docs citations

44
times ranked

1059
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly efficient photoelectrochemical and photocatalytic anodic TiO ₂ nanotube layers with additional TiO ₂ coating. Applied Materials Today, 2017, 9, 104-110.	2.3	83
2	One-dimensional anodic TiO ₂ nanotubes coated by atomic layer deposition: Towards advanced applications. Applied Materials Today, 2019, 14, 1-20.	2.3	78
3	Chiral Protein-templated Covalent Organic Framework 3D-Printed Structures as Chiral Biosensors. Analytical Chemistry, 2021, 93, 5277-5283.	3.2	61
4	ZnO Coated Anodic 1D TiO ₂ Nanotube Layers: Efficient Photoelectrochemical and Gas Sensing Heterojunction. Advanced Engineering Materials, 2018, 20, 1700589.	1.6	48
5	Tunable Room-Temperature Synthesis of ReS ₂ Bicatalyst on 3D- and 2D-Printed Electrodes for Photo- and Electrochemical Energy Applications. Advanced Functional Materials, 2020, 30, 1910193.	7.8	45
6	Catalyst coating of 3D printed structures via electrochemical deposition: Case of the transition metal chalcogenide MoS _x for hydrogen evolution reaction. Applied Materials Today, 2020, 20, 100654.	2.3	35
7	Inherent Impurities in Graphene/Poly(lactic Acid) Filament Strongly Influence on the Capacitive Performance of 3D-Printed Electrode. Chemistry - A European Journal, 2020, 26, 15746-15753.	1.7	34
8	High aspect ratio TiO ₂ nanotube layers obtained in a very short anodization time. Electrochimica Acta, 2021, 376, 138080.	2.6	34
9	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
10	Atomic Layer Deposition of Electrocatalytic Insulator Al ₂ O ₃ on Three-Dimensional Printed Nanocarbons. ACS Nano, 2021, 15, 686-697.	7.3	28
11	Tailoring capacitance of 3D-printed graphene electrodes by carbonisation temperature. Nanoscale, 2020, 12, 19673-19680.	2.8	28
12	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
13	Two-Dimensional Functionalized Germananes as Photoelectrocatalysts. ACS Nano, 2021, 15, 11681-11693.	7.3	25
14	Atomic layer deposition of photoelectrocatalytic material on 3D-printed nanocarbon structures. Journal of Materials Chemistry A, 2021, 9, 11405-11414.	5.2	21
15	Pt nanoparticles decorated TiO ₂ nanotubes for the reduction of olefins. Applied Materials Today, 2018, 10, 86-92.	2.3	18
16	Photoelectrochemical ultraviolet photodetector by anodic titanium dioxide nanotube layers. Sensors and Actuators A: Physical, 2018, 279, 263-271.	2.0	18
17	2D MoS ₂ /carbon/poly(lactic acid) filament for 3D printing: Photo and electrochemical energy conversion and storage. Applied Materials Today, 2022, 26, 101301.	2.3	18
18	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

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19	MoSe ₂ /O ₂ -Coated 1D TiO ₂ Nanotube Layers: Efficient Interface for Light-Driven Applications. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701146.	1.9	16
20	Atomic Layer Deposition of MoSe ₂ Using New Selenium Precursors. <i>FlatChem</i> , 2020, 21, 100166.	2.8	16
21	ReS ₂ : A High-Rate Pseudocapacitive Energy Storage Material. <i>ACS Applied Energy Materials</i> , 2020, 3, 10261-10269.	2.5	15
22	Local electrochemical activity of transition metal dichalcogenides and their heterojunctions on 3D-printed nanocarbon surfaces. <i>Nanoscale</i> , 2021, 13, 5324-5332.	2.8	15
23	Fabrication of titanium dioxide nanotubes in fluoride-free electrolyte via rapid breakdown anodization. <i>Journal of Porous Materials</i> , 2015, 22, 1437-1444.	1.3	14
24	Two-dimensional vanadium sulfide flexible graphite/polymer films for near-infrared photoelectrocatalysis and electrochemical energy storage. <i>Chemical Engineering Journal</i> , 2022, 435, 135131.	6.6	12
25	Fluorinated MAX Phases for Photoelectrochemical Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2793-2801.	3.2	11
26	Ideally Hexagonally Ordered TiO ₂ Nanotube Arrays. <i>ChemistryOpen</i> , 2017, 6, 480-483.	0.9	10
27	Sulfur treated 1D anodic TiO ₂ nanotube layers for significant photo- and electroactivity enhancement. <i>Applied Materials Today</i> , 2019, 17, 104-111.	2.3	10
28	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. <i>Nanomaterials</i> , 2020, 10, 953.	1.9	9
29	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
30	The effects of morphological changes on the vibrational properties of self-organized TiO ₂ nanotubes. <i>Thin Solid Films</i> , 2011, 520, 807-812.	0.8	8
31	Photoelectrochemical Fabrication of Porous GaN and Their Applications in Ultraviolet and Ammonia Sensing. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 08JK03.	0.8	8
32	Layered transition metal selenophosphites for visible light photoelectrochemical production of hydrogen. <i>Electrochemistry Communications</i> , 2021, 129, 107077.	2.3	7
33	Improved conductivity of indium-tin-oxide film through the introduction of intermediate layer. <i>Superlattices and Microstructures</i> , 2016, 97, 202-211.	1.4	6
34	Photoelectrolysis of TiO ₂ is Highly Localized and the Selectivity is Affected by the Light. <i>Chemical Engineering Journal</i> , 2022, , 136995.	6.6	5
35	Al ₂ O ₃ /Covalent Organic Framework on 3D-Printed Nanocarbon Electrodes for Enhanced Biomarker Detection. <i>ACS Applied Nano Materials</i> , 2022, 5, 9719-9727.	2.4	5
36	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

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37	Electrochemical Impregnation of Silver Nanostructures in Titanium Dioxide Nanotubes. Journal of the Electrochemical Society, 2012, 159, D742-D746.	1.3	2
38	Molybdenum Disulfides and Diselenides By Atomic Layer Deposition. ECS Meeting Abstracts, 2020, MA2020-01, 837-837.	0.0	1
39	Optical Properties and UV Sensing Response of Nitrogen-doped TiO ₂ Thin Film by CVD. Journal of Physics: Conference Series, 2018, 1083, 012025.	0.3	0
40	(Invited) Anodic TiO ₂ Nanotube Layers: Efficient Photocatalyst. ECS Meeting Abstracts, 2019, , .	0.0	0
41	Noble Metal Decorated Anodic TiO ₂ Nanotubes: Excellent (Electro)Catalyst. ECS Meeting Abstracts, 2019, , .	0.0	0
42	Molybdenum Disulfides and Diselenides By Atomic Layer Deposition. ECS Meeting Abstracts, 2019, , .	0.0	0
43	Anodic TiO ₂ Nanotube Layers: Efficient Photocatalyst. ECS Meeting Abstracts, 2020, MA2020-02, 3061-3061.	0.0	0
44	Recent Progress in Anodic TiO ₂ Nanotube Layer Synthesis. ECS Meeting Abstracts, 2020, MA2020-02, 1200-1200.	0.0	0