

# Siowwoon Ng

## List of Publications by Year in descending order

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44  
papers

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516710

16  
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citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.0	9
2	2D MoS <sub>2</sub> /carbon/polylactic acid filament for 3D printing: Photo and electrochemical energy conversion and storage. <i>Applied Materials Today</i> , 2022, 26, 101301.	4.3	18
3	Two-dimensional vanadium sulfide flexible graphite/polymer films for near-infrared photoelectrocatalysis and electrochemical energy storage. <i>Chemical Engineering Journal</i> , 2022, 435, 135131.	12.7	12
4	Fluorinated MAX Phases for Photoelectrochemical Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2793-2801.	6.7	11
5	Photoelectrolysis of TiO <sub>2</sub> is Highly Localized and the Selectivity is Affected by the Light. <i>Chemical Engineering Journal</i> , 2022, , 136995.	12.7	5
6	Al <sub>2</sub> O <sub>3</sub> /Covalent Organic Framework on 3D-Printed Nanocarbon Electrodes for Enhanced Biomarker Detection. <i>ACS Applied Nano Materials</i> , 2022, 5, 9719-9727.	5.0	5
7	Atomic layer deposition of photoelectrocatalytic material on 3D-printed nanocarbon structures. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11405-11414.	10.3	21
8	Chiral Protein@Covalent Organic Framework 3D-Printed Structures as Chiral Biosensors. <i>Analytical Chemistry</i> , 2021, 93, 5277-5283.	6.5	61
9	High aspect ratio TiO <sub>2</sub> nanotube layers obtained in a very short anodization time. <i>Electrochimica Acta</i> , 2021, 376, 138080.	5.2	34
10	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.	2.4	3
11	Two-Dimensional Functionalized Germananes as Photoelectrocatalysts. <i>ACS Nano</i> , 2021, 15, 11681-11693.	14.6	25
12	Layered transition metal selenophosphites for visible light photoelectrochemical production of hydrogen. <i>Electrochemistry Communications</i> , 2021, 129, 107077.	4.7	7
13	Local electrochemical activity of transition metal dichalcogenides and their heterojunctions on 3D-printed nanocarbon surfaces. <i>Nanoscale</i> , 2021, 13, 5324-5332.	5.6	15
14	Atomic Layer Deposition of Electrocatalytic Insulator Al <sub>2</sub> O <sub>3</sub> on Three-Dimensional Printed Nanocarbons. <i>ACS Nano</i> , 2021, 15, 686-697.	14.6	28
15	ReS <sub>2</sub> : A High-Rate Pseudocapacitive Energy Storage Material. <i>ACS Applied Energy Materials</i> , 2020, 3, 10261-10269.	5.1	15
16	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.	4.6	27
17	Inherent Impurities in Graphene/Polylactic Acid Filament Strongly Influence on the Capacitive Performance of 3D-Printed Electrode. <i>Chemistry - A European Journal</i> , 2020, 26, 15746-15753.	3.3	34
18	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.	4.1	9

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19	Tunable Room-Temperature Synthesis of ReS <sub>2</sub> Bicatalyst on 3D- and 2D-Printed Electrodes for Photo- and Electrochemical Energy Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1910193.	14.9	45
20	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.	8.0	28
21	Atomic Layer Deposition of MoSe <sub>2</sub> Using New Selenium Precursors. <i>FlatChem</i> , 2020, 21, 100166.	5.6	16
22	Catalyst coating of 3D printed structures via electrochemical deposition: Case of the transition metal chalcogenide MoS <sub>x</sub> for hydrogen evolution reaction. <i>Applied Materials Today</i> , 2020, 20, 100654.	4.3	35
23	Tailoring capacitance of 3D-printed graphene electrodes by carbonisation temperature. <i>Nanoscale</i> , 2020, 12, 19673-19680.	5.6	28
24	Molybdenum Disulfides and Diselenides By Atomic Layer Deposition. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 837-837.	0.0	1
25	Anodic TiO <sub>2</sub> Nanotube Layers: Efficient Photocatalyst. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 3061-3061.	0.0	0
26	Recent Progress in Anodic TiO <sub>2</sub> Nanotube Layer Synthesis. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 1200-1200.	0.0	0
27	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.	4.3	10
28	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.	3.6	17
29	One-dimensional anodic TiO <sub>2</sub> nanotubes coated by atomic layer deposition: Towards advanced applications. <i>Applied Materials Today</i> , 2019, 14, 1-20.	4.3	78
30	(Invited) Anodic TiO <sub>2</sub> Nanotube Layers: Efficient Photocatalyst. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
31	Noble Metal Decorated Anodic TiO <sub>2</sub> Nanotubes: Excellent (Electro)Catalyst. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
32	Molybdenum Disulfides and Diselenides By Atomic Layer Deposition. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
33	Pt nanoparticles decorated TiO <sub>2</sub> nanotubes for the reduction of olefins. <i>Applied Materials Today</i> , 2018, 10, 86-92.	4.3	18
34	ZnO Coated Anodic 1D TiO <sub>2</sub> Nanotube Layers: Efficient Photo-Electrochemical and Gas Sensing Heterojunction. <i>Advanced Engineering Materials</i> , 2018, 20, 1700589.	3.5	48
35	MoSe <sub>x</sub> /TiO <sub>y</sub> -Coated 1D TiO <sub>2</sub> Nanotube Layers: Efficient Interface for Light-Driven Applications. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701146.	3.7	16
36	Optical Properties and UV Sensing Response of Nitrogen-doped TiO <sub>2</sub> Thin Film by CVD. <i>Journal of Physics: Conference Series</i> , 2018, 1083, 012025.	0.4	0

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37	Photoelectrochemical ultraviolet photodetector by anodic titanium dioxide nanotube layers. <i>Sensors and Actuators A: Physical</i> , 2018, 279, 263-271.	4.1	18
38	Highly efficient photoelectrochemical and photocatalytic anodic TiO <sub>2</sub> nanotube layers with additional TiO <sub>2</sub> coating. <i>Applied Materials Today</i> , 2017, 9, 104-110.	4.3	83
39	Ideally Hexagonally Ordered TiO <sub>2</sub> Nanotube Arrays. <i>ChemistryOpen</i> , 2017, 6, 480-483.	1.9	10
40	Improved conductivity of indium-tin-oxide film through the introduction of intermediate layer. <i>Superlattices and Microstructures</i> , 2016, 97, 202-211.	3.1	6
41	Fabrication of titanium dioxide nanotubes in fluoride-free electrolyte via rapid breakdown anodization. <i>Journal of Porous Materials</i> , 2015, 22, 1437-1444.	2.6	14
42	Photoelectrochemical Fabrication of Porous GaN and Their Applications in Ultraviolet and Ammonia Sensing. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 08JK03.	1.5	8
43	Electrochemical Impregnation of Silver Nanostructures in Titanium Dioxide Nanotubes. <i>Journal of the Electrochemical Society</i> , 2012, 159, D742-D746.	2.9	2
44	The effects of morphological changes on the vibrational properties of self-organized TiO <sub>2</sub> nanotubes. <i>Thin Solid Films</i> , 2011, 520, 807-812.	1.8	8