

# Thomas Cottineau

## List of Publications by Year in descending order

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35  
papers

1,662  
citations

471061

17  
h-index

377514

34  
g-index

36  
all docs

36  
docs citations

36  
times ranked

3102  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured transition metal oxides for aqueous hybrid electrochemical supercapacitors. Applied Physics A: Materials Science and Processing, 2006, 82, 599-606.	1.1	575
2	TiO <sub>2</sub> Nanotube arrays: Influence of tube length on the photocatalytic degradation of Paraquat. Applied Catalysis B: Environmental, 2016, 194, 1-6.	10.8	185
3	Au/TiO <sub>2</sub> @g-C <sub>3</sub> N <sub>4</sub> Nanocomposites for Enhanced Photocatalytic H <sub>2</sub> Production from Water under Visible Light Irradiation with Very Low Quantities of Sacrificial Agents. Advanced Energy Materials, 2018, 8, 1702142.	10.2	163
4	Influence of the gas atmosphere during the synthesis of g-C <sub>3</sub> N <sub>4</sub> for enhanced photocatalytic H <sub>2</sub> production from water on Au/g-C <sub>3</sub> N <sub>4</sub> composites. Journal of Materials Chemistry A, 2019, 7, 14849-14863.	5.2	81
5	Bio-Inspired Nanostructured Sensor for the Detection of Ultralow Concentrations of Explosives. Angewandte Chemie - International Edition, 2012, 51, 5334-5338.	7.2	75
6	One step synthesis of niobium doped titania nanotube arrays to form (N,Nb) co-doped TiO <sub>2</sub> with high visible light photoelectrochemical activity. Journal of Materials Chemistry A, 2013, 1, 2151-2160.	5.2	75
7	Hydrolysis and Complexation of <i>N,N</i> -Dimethylformamide in New Nanostructured Titanium Oxide Hybrid Organic-Inorganic Sols and Gel. Journal of Physical Chemistry C, 2011, 115, 12269-12274.	1.5	62
8	Solar light-activated photocatalytic degradation of gas phase diethylsulfide on WO <sub>3</sub> -modified TiO <sub>2</sub> nanotubes. Applied Catalysis B: Environmental, 2013, 138-139, 128-140.	10.8	54
9	Activation of solid grinding-derived Au/TiO <sub>2</sub> photocatalysts for solar H <sub>2</sub> production from water-methanol mixtures with low alcohol content. Journal of Catalysis, 2017, 352, 22-34.	3.1	49
10	Temperature dependent photoluminescence of anatase and rutile TiO <sub>2</sub> single crystals: Polaron and self-trapped exciton formation. Journal of Applied Physics, 2018, 124, .	1.1	39
11	Niobium Alloying of Self-Organized TiO <sub>2</sub> Nanotubes as an Anode for Lithium-Ion Microbatteries. Advanced Materials Technologies, 2018, 3, 1700274.	3.0	33
12	Effect of deposition of Ag nanoparticles on photoelectrocatalytic activity of vertically aligned TiO <sub>2</sub> nanotubes. Catalysis Today, 2012, 189, 93-100.	2.2	26
13	Intermediate band in the gap of photosensitive hybrid gel based on titanium oxide: role of coordinated ligands during photoreduction. Journal of Materials Chemistry A, 2014, 2, 11499-11508.	5.2	23
14	Photosensitive Titanium Oxo-polymers: Synthesis and Structural Characterization. Chemistry of Materials, 2008, 20, 1421-1430.	3.2	21
15	Comparative study of the photocatalytic effects of pulsed laser deposited CoO and NiO nanoparticles onto TiO <sub>2</sub> nanotubes for the photoelectrochemical water splitting. Solar Energy Materials and Solar Cells, 2020, 217, 110703.	3.0	20
16	Synthesis of transparent vertically aligned TiO <sub>2</sub> nanotubes on a few-layer graphene (FLG) film. Chemical Communications, 2012, 48, 1224-1226.	2.2	18
17	Synthesis of vertically aligned titanium dioxide nanotubes on microcantilevers for new nanostructured micromechanical sensors for explosive detection. Sensors and Actuators B: Chemical, 2013, 182, 489-497.	4.0	18
18	Characterization and charge transfer properties of organic BODIPY dyes integrated in TiO <sub>2</sub> nanotube based dye-sensitized solar cells. RSC Advances, 2016, 6, 91529-91540.	1.7	17

#	ARTICLE	IF	CITATIONS
19	Influence of the anatase/rutile ratio on the charge transport properties of TiO <sub>2</sub> -NTs arrays studied by dual wavelength opto-electrochemical impedance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31469-31478.	1.3	15
20	Functionalized TiO <sub>2</sub> Nanorods on a Microcantilever for the Detection of Organophosphorus Chemical Agents in Air. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35122-35131.	4.0	15
21	Evidence of Interfacial Charge Transfer upon UV-Visible Light Irradiation in Novel Titanium Oxide Gel. <i>Advanced Functional Materials</i> , 2008, 18, 2602-2610.	7.8	14
22	Surface band structure of aryl-diazonium modified p-Si electrodes determined by X-ray photoelectron spectroscopy and electrochemical measurements. <i>RSC Advances</i> , 2013, 3, 23649.	1.7	14
23	High-Frequency Stimulation of Normal and Blind Mouse Retinas Using TiO <sub>2</sub> Nanotubes. <i>Advanced Functional Materials</i> , 2018, 28, 1804639.	7.8	13
24	Modification of p-type Silicon for the Photoelectrochemical Reduction of CO <sub>2</sub> . <i>ECS Transactions</i> , 2009, 19, 1-7.	0.3	9
25	Enhanced visible-light-photoconversion efficiency of TiO <sub>2</sub> nanotubes decorated by pulsed laser deposited CoNi nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28656-28667.	3.8	9
26	Theoretical and photo-electrochemical studies of surface plasmon induced visible light absorption of Ag loaded TiO <sub>2</sub> nanotubes for water splitting. <i>Applied Physics Letters</i> , 2016, 109, 153903.	1.5	8
27	Double side nanostructuring of microcantilever sensors with TiO <sub>2</sub> -NTs as a route to enhance their sensitivity. <i>Nanoscale</i> , 2020, 12, 13338-13345.	2.8	8
28	Bio-inspired Explosive Sensors and Specific Signatures. <i>Procedia Engineering</i> , 2014, 87, 740-746.	1.2	5
29	Anions and cations distribution in M <sup>5+</sup> /N <sup>3-</sup> -co-alloyed TiO <sub>2</sub> nanotubular structures for photo-electrochemical water splitting. <i>Materials Science in Semiconductor Processing</i> , 2018, 73, 22-29.	1.9	4
30	Electrosynthesis of gradient TiO <sub>2</sub> nanotubes and rapid screening using scanning photoelectrochemical microscopy. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1099-1104.	2.5	4
31	Design of an efficient measurement cell for characterizing sensing properties of nanostructured sensitive layers coated on chips. <i>Sensors and Actuators B: Chemical</i> , 2012, 166-167, 829-832.	4.0	3
32	Monodispersed titanium oxide nanoparticles in N,N-dimethylformamide: water solutions. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 67, 288-296.	1.1	3
33	Nanostructured and functionalized cantilever for sensing organophosphorous compounds. , 2019, , .		2
34	Investigation of interactions between organophosphorus compounds and TiO <sub>2</sub> modified microcantilevers for molecule detection in air. <i>Materials Advances</i> , 2022, 3, 3600-3609.	2.6	1
35	Upscaling Anodic Synthesis of TiO <sub>2</sub> Nanotubes Film as Potential Material for Photoelectrocatalytic Applications: Influence of Electrolyte Overheating and Aging on Nanotube Morphology and Stability. <i>Journal of Photocatalysis</i> , 2020, 1, 43-49.	0.4	0