

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	Investigation of interactions between organophosphorus compounds and TiO ₂ modified microcantilevers for molecule detection in air. <i>Materials Advances</i> , 2022, 3, 3600-3609.	2.6	1
2	Electrosynthesis of gradient TiO ₂ nanotubes and rapid screening using scanning photoelectrochemical microscopy. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1099-1104.	2.5	4
3	Comparative study of the photocatalytic effects of pulsed laser deposited CoO and NiO nanoparticles onto TiO ₂ nanotubes for the photoelectrochemical water splitting. <i>Solar Energy Materials and Solar Cells</i> , 2020, 217, 110703.	3.0	20
4	Double side nanostructuring of microcantilever sensors with TiO ₂ -NTs as a route to enhance their sensitivity. <i>Nanoscale</i> , 2020, 12, 13338-13345.	2.8	8
5	Upscaling Anodic Synthesis of TiO ₂ 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
6	Enhanced visible-light-photoconversion efficiency of TiO ₂ nanotubes decorated by pulsed laser deposited CoNi nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28656-28667.	3.8	9
7	Functionalized TiO ₂ Nanorods on a Microcantilever for the Detection of Organophosphorus Chemical Agents in Air. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35122-35131.	4.0	15
8	Influence of the gas atmosphere during the synthesis of g-C ₃ N ₄ for enhanced photocatalytic H ₂ production from water on Au/g-C ₃ N ₄ composites. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14849-14863.	5.2	81
9	Nanostructured and functionalized cantilever for sensing organophosphorous compounds. , 2019, , .		2
10	Au/TiO ₂ @gC ₃ N ₄ Nanocomposites for Enhanced Photocatalytic H ₂ Production from Water under Visible Light Irradiation with Very Low Quantities of Sacrificial Agents. <i>Advanced Energy Materials</i> , 2018, 8, 1702142.	10.2	163
11	Niobium Alloying of Self-Organized TiO ₂ Nanotubes as an Anode for Lithium-Ion Microbatteries. <i>Advanced Materials Technologies</i> , 2018, 3, 1700274.	3.0	33
12	Anions and cations distribution in M ⁵⁺ /N ³⁻ co-alloyed TiO ₂ nanotubular structures for photo-electrochemical water splitting. <i>Materials Science in Semiconductor Processing</i> , 2018, 73, 22-29.	1.9	4
13	High-Frequency Stimulation of Normal and Blind Mouse Retinas Using TiO ₂ Nanotubes. <i>Advanced Functional Materials</i> , 2018, 28, 1804639.	7.8	13
14	Temperature dependent photoluminescence of anatase and rutile TiO ₂ single crystals: Polaron and self-trapped exciton formation. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	39
15	Activation of solid grinding-derived Au/TiO ₂ photocatalysts for solar H ₂ production from water-methanol mixtures with low alcohol content. <i>Journal of Catalysis</i> , 2017, 352, 22-34.	3.1	49
16	Influence of the anatase/rutile ratio on the charge transport properties of TiO ₂ -NTs arrays studied by dual wavelength opto-electrochemical impedance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31469-31478.	1.3	15
17	Theoretical and photo-electrochemical studies of surface plasmon induced visible light absorption of Ag loaded TiO ₂ nanotubes for water splitting. <i>Applied Physics Letters</i> , 2016, 109, 153903.	1.5	8
18	TiO ₂ Nanotube arrays: Influence of tube length on the photocatalytic degradation of Paraquat. <i>Applied Catalysis B: Environmental</i> , 2016, 194, 1-6.	10.8	185

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19	Characterization and charge transfer properties of organic BODIPY dyes integrated in TiO ₂ nanotube based dye-sensitized solar cells. RSC Advances, 2016, 6, 91529-91540.	1.7	17
20	Bio-inspired Explosive Sensors and Specific Signatures. Procedia Engineering, 2014, 87, 740-746.	1.2	5
21	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
22	Monodispersed titanium oxide nanoparticles in N,N-dimethylformamide: water solutions. Journal of Sol-Gel Science and Technology, 2013, 67, 288-296.	1.1	3
23	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
24	Surface band structure of aryl-diazonium modified p-Si electrodes determined by X-ray photoelectron spectroscopy and electrochemical measurements. RSC Advances, 2013, 3, 23649.	1.7	14
25	One step synthesis of niobium doped titania nanotube arrays to form (N,Nb) co-doped TiO ₂ with high visible light photoelectrochemical activity. Journal of Materials Chemistry A, 2013, 1, 2151-2160.	5.2	75
26	Solar light-activated photocatalytic degradation of gas phase diethylsulfide on WO ₃ -modified TiO ₂ nanotubes. Applied Catalysis B: Environmental, 2013, 138-139, 128-140.	10.8	54
27	Effect of deposition of Ag nanoparticles on photoelectrocatalytic activity of vertically aligned TiO ₂ nanotubes. Catalysis Today, 2012, 189, 93-100.	2.2	26
28	Synthesis of transparent vertically aligned TiO ₂ nanotubes on a few-layer graphene (FLG) film. Chemical Communications, 2012, 48, 1224-1226.	2.2	18
29	Bio-inspired Nanostructured Sensor for the Detection of Ultralow Concentrations of Explosives. Angewandte Chemie - International Edition, 2012, 51, 5334-5338.	7.2	75
30	Design of an efficient measurement cell for characterizing sensing properties of nanostructured sensitive layers coated on chips. Sensors and Actuators B: Chemical, 2012, 166-167, 829-832.	4.0	3
31	Hydrolysis and Complexation of N,N-Dimethylformamide in New Nanostructured Titanium Oxide Hybrid Organic-Inorganic Sols and Gel. Journal of Physical Chemistry C, 2011, 115, 12269-12274.	1.5	62
32	Modification of p-type Silicon for the Photoelectrochemical Reduction of CO ₂ . ECS Transactions, 2009, 19, 1-7.	0.3	9
33	Evidence of Interfacial Charge Transfer upon UV Light Irradiation in Novel Titanium Oxide Gel. Advanced Functional Materials, 2008, 18, 2602-2610.	7.8	14
34	Photosensitive Titanium Oxo-polymers: Synthesis and Structural Characterization. Chemistry of Materials, 2008, 20, 1421-1430.	3.2	21
35	Nanostructured transition metal oxides for aqueous hybrid electrochemical supercapacitors. Applied Physics A: Materials Science and Processing, 2006, 82, 599-606.	1.1	575