

Carlos Sotelo-Vazquez

List of Publications by Citations

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26

papers

864

citations

14

h-index

27

g-index

27

ext. papers

1,054

ext. citations

9.2

avg, IF

3.96

L-index

#	Paper	IF	Citations
26	Photo-induced enhanced Raman spectroscopy for universal ultra-trace detection of explosives, pollutants and biomolecules. <i>Nature Communications</i> , 2016 , 7, 12189	17.4	143
25	Where Do Photogenerated Holes Go in Anatase:Rutile TiO ₂ ? A Transient Absorption Spectroscopy Study of Charge Transfer and Lifetime. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 715-23	2.8	101
24	Multifunctional P-Doped TiO ₂ Films: A New Approach to Self-Cleaning, Transparent Conducting Oxide Materials. <i>Chemistry of Materials</i> , 2015 , 27, 3234-3242	9.6	92
23	Water Oxidation Kinetics of Accumulated Holes on the Surface of a TiO ₂ Photoanode: A Rate Law Analysis. <i>ACS Catalysis</i> , 2017 , 7, 4896-4903	13.1	76
22	Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO ₃ /TiO ₂ Heterojunction Films: A Computational and Experimental Study. <i>Advanced Functional Materials</i> , 2017 , 27, 1605413	15.6	76
21	Optimizing the Activity of Nanoneedle Structured WO ₃ Photoanodes for Solar Water Splitting: Direct Synthesis via Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5983-5993	3.8	57
20	Enhanced Photocatalytic and Antibacterial Ability of Cu-Doped Anatase TiO Thin Films: Theory and Experiment. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15348-15361	9.5	49
19	Chemical Vapor Deposition of Photocatalytically Active Pure Brookite TiO ₂ Thin Films. <i>Chemistry of Materials</i> , 2018 , 30, 1353-1361	9.6	43
18	Critical influence of surface nitrogen species on the activity of N-doped TiO ₂ thin-films during photodegradation of stearic acid under UV light irradiation. <i>Applied Catalysis B: Environmental</i> , 2014 , 160-161, 582-588	21.8	40
17	Photocatalytic Evidence of the Rutile-to-Anatase Electron Transfer in Titania. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1400069	4.6	36
16	ZnO Rods with Exposed {100} Facets Grown via a Self-Catalyzed Vapor-Solid Mechanism and Their Photocatalytic and Gas Sensing Properties. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33335-33342	9.5	34
15	On the apparent visible-light and enhanced UV-light photocatalytic activity of nitrogen-doped TiO ₂ thin films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 333, 49-55	4.7	26
14	Interstitial boron-doped anatase TiO ₂ thin-films on optical fibres: atmospheric pressure-plasma enhanced chemical vapour deposition as the key for functional oxide coatings on temperature-sensitive substrates. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10836-10842	13	17
13	Correlation of Optical Properties, Electronic Structure, and Photocatalytic Activity in Nanostructured Tungsten Oxide. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700064	4.6	15
12	Functionalised gold and titania nanoparticles and surfaces for use as antimicrobial coatings. <i>Faraday Discussions</i> , 2014 , 175, 273-87	3.6	14
11	Ultraviolet Radiation Induced Dopant Loss in a TiO ₂ Photocatalyst. <i>ACS Catalysis</i> , 2017 , 7, 1485-1490	13.1	13
10	Charge Transport Phenomena in Heterojunction Photocatalysts: The WO/TiO System as an Archetypical Model. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 9781-9793	9.5	8

9	Deeper Understanding of Interstitial Boron-Doped Anatase Thin Films as A Multifunctional Layer Through Theory and Experiment. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 714-726	3.8	5
8	Single-step synthesis of doped TiO ₂ stratified thin-films by atmospheric-pressure chemical vapour deposition. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7082	13	5
7	Multiple diffusion pathways in Li _x Ni _{0.77} Co _{0.14} Al _{0.09} O ₂ (NCA) Li-ion battery cathodes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11545-11552	13	3
6	Iron-Intercalated Zirconium Diselenide Thin Films from the Low-Pressure Chemical Vapor Deposition of [Fe(ECHSe)Zr(ECH)]. <i>ACS Omega</i> , 2020 , 5, 15799-15804	3.9	3
5	Anisotropic Electron Transport Limits Performance of Bi ₂ WO ₆ Photoanodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 18859-18867	3.8	3
4	Photocatalysis: Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO ₃ /TiO ₂ Heterojunction Films: A Computational and Experimental Study (Adv. Funct. Mater. 18/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	1
3	Dopant stability in multifunctional doped TiO ₂ under environmental UVA exposure. <i>Environmental Science: Nano</i> , 2017 , 4, 1108-1113	7.1	1
2	Accessing new 2D semiconductors with optical band gap: synthesis of iron-intercalated titanium diselenide thin films LPCVD.. <i>RSC Advances</i> , 2018 , 8, 22552-22558	3.7	1
1	Stoichiometrically driven disorder and local diffusion in NMC cathodes. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10477-10486	13	1