

Carlos Sotelo-Vazquez

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,243
citations

516710

16
h-index

526287

27
g-index

27
all docs

27
docs citations

27
times ranked

2441
citing authors

#	ARTICLE	IF	CITATIONS
1	Stoichiometrically driven disorder and local diffusion in NMC cathodes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10477-10486.	10.3	7
2	Charge Transport Phenomena in Heterojunction Photocatalysts: The WO ₃ /TiO ₂ System as an Archetypical Model. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9781-9793.	8.0	24
3	Anisotropic Electron Transport Limits Performance of Bi ₂ WO ₆ Photoanodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18859-18867.	3.1	9
4	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.	10.3	6
5	Iron-Intercalated Zirconium Diselenide Thin Films from the Low-Pressure Chemical Vapor Deposition of [Fe(⁵ I-C ₅ H ₄ Se) ₂ Zr(⁵ I-C ₅ H ₅) ₂] ₂ . <i>ACS Omega</i> , 2020, 5, 15799-15804.	3.5	7
6	Enhanced Photocatalytic and Antibacterial Ability of Cu-Doped Anatase TiO ₂ Thin Films: Theory and Experiment. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15348-15361.	8.0	102
7	Chemical Vapor Deposition of Photocatalytically Active Pure Brookite TiO ₂ Thin Films. <i>Chemistry of Materials</i> , 2018, 30, 1353-1361.	6.7	79
8	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.	3.1	16
9	Accessing new 2D semiconductors with optical band gap: synthesis of iron-intercalated titanium diselenide thin films <i>via</i> LPCVD. <i>RSC Advances</i> , 2018, 8, 22552-22558.	3.6	8
10	Ultraviolet Radiation Induced Dopant Loss in a TiO ₂ Photocatalyst. <i>ACS Catalysis</i> , 2017, 7, 1485-1490.	11.2	18
11	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.	3.1	71
12	Correlation of Optical Properties, Electronic Structure, and Photocatalytic Activity in Nanostructured Tungsten Oxide. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700064.	3.7	25
13	Photocatalysis: Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO ₃ /TiO ₂ Heterojunction Films: A Computational and Experimental Study (<i>Adv. Funct. Mater.</i> 18/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	14.9	1
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.	10.3	25
15	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.	11.2	105
16	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.	14.9	115
17	Dopant stability in multifunctional doped TiO ₂ 's under environmental UVA exposure. <i>Environmental Science: Nano</i> , 2017, 4, 1108-1113.	4.3	1
18	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.	3.9	29

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19	ZnO Rods with Exposed {100} Facets Grown via a Self-Catalyzed Vapor-Solid Mechanism and Their Photocatalytic and Gas Sensing Properties. ACS Applied Materials & Interfaces, 2016, 8, 33335-33342.	8.0	42
20	Photo-induced enhanced Raman spectroscopy for universal ultra-trace detection of explosives, pollutants and biomolecules. Nature Communications, 2016, 7, 12189.	12.8	201
21	Where Do Photogenerated Holes Go in Anatase:Rutile TiO ₂ ? A Transient Absorption Spectroscopy Study of Charge Transfer and Lifetime. Journal of Physical Chemistry A, 2016, 120, 715-723.	2.5	128
22	Multifunctional P-Doped TiO ₂ Films: A New Approach to Self-Cleaning, Transparent Conducting Oxide Materials. Chemistry of Materials, 2015, 27, 3234-3242.	6.7	113
23	Functionalised gold and titania nanoparticles and surfaces for use as antimicrobial coatings. Faraday Discussions, 2014, 175, 273-287.	3.2	16
24	Photocatalytic Evidence of the Rutile-to-Anatase Electron Transfer in Titania. Advanced Materials Interfaces, 2014, 1, 1400069.	3.7	43
25	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. Applied Catalysis B: Environmental, 2014, 160-161, 582-588.	20.2	44
26	Single-step synthesis of doped TiO ₂ stratified thin-films by atmospheric-pressure chemical vapour deposition. Journal of Materials Chemistry A, 2014, 2, 7082.	10.3	7