

Carlos Sotelo-Vazquez

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,243
citations

516681

16
h-index

526264

27
g-index

27
all docs

27
docs citations

27
times ranked

2441
citing authors

#	ARTICLE	IF	CITATIONS
1	Photo-induced enhanced Raman spectroscopy for universal ultra-trace detection of explosives, pollutants and biomolecules. <i>Nature Communications</i> , 2016, 7, 12189.	12.8	201
2	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, 715-723.	2.5	128
3	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
4	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.	6.7	113
5	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
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	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
9	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.	20.2	44
10	Photocatalytic Evidence of the Rutile-Anatase Electron Transfer in Titania. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400069.	3.7	43
11	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.	8.0	42
12	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
13	Correlation of Optical Properties, Electronic Structure, and Photocatalytic Activity in Nanostructured Tungsten Oxide. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700064.	3.7	25
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	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
16	Ultraviolet Radiation Induced Dopant Loss in a TiO ₂ Photocatalyst. <i>ACS Catalysis</i> , 2017, 7, 1485-1490.	11.2	18
17	Functionalised gold and titania nanoparticles and surfaces for use as antimicrobial coatings. <i>Faraday Discussions</i> , 2014, 175, 273-287.	3.2	16
18	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

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19	Anisotropic Electron Transport Limits Performance of Bi ₂ WO ₆ Photoanodes. Journal of Physical Chemistry C, 2020, 124, 18859-18867.	3.1	9
20	Accessing new 2D semiconductors with optical band gap: synthesis of iron-intercalated titanium diselenide thin films <i>via</i> LPCVD. RSC Advances, 2018, 8, 22552-22558.	3.6	8
21	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
22	Iron-Intercalated Zirconium Diselenide Thin Films from the Low-Pressure Chemical Vapor Deposition of [Fe ⁵⁺ -C ₅ H ₄ Se] ₂ Zr(Fe ⁵⁺ -C ₅ H ₅) ₂ . ACS Omega, 2020, 5, 15799-15804.	3.5	7
23	Stoichiometrically driven disorder and local diffusion in NMC cathodes. Journal of Materials Chemistry A, 2021, 9, 10477-10486.	10.3	7
24	Multiple diffusion pathways in Li _x Ni _{0.77} Co _{0.14} Al _{0.09} O ₂ (NCA) Li-ion battery cathodes. Journal of Materials Chemistry A, 2020, 8, 11545-11552.	10.3	6
25	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). Advanced Functional Materials, 2017, 27, .	14.9	1
26	Dopant stability in multifunctional doped TiO ₂ 's under environmental UVA exposure. Environmental Science: Nano, 2017, 4, 1108-1113.	4.3	1