Antonio O T Patrocinio

List of Publications by Year
in descending order

65	2,682	236925 25	182427 51
papers	citations	h-index	g-index

68	68	68	3817
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient Photocatalytic H₂ Evolution by Hexaniobate Nanosheets Grafted with Copper Nanoclusters. ChemPhotoChem, 2022, 6, .	3.0	2
2	Oxygen Vacancies Promoted Piezoelectricity toward Piezo-Photocatalytic Decomposition of Tetracycline over SrBi₄Ti₄O₁₅. ACS ES&T Engineering, 2022, 2, 1365-1375.	7.6	50
3	On the influence of hydrothermal treatment pH on the performance of Bi2WO6 as photocatalyst in the glycerol photoreforming. Photochemical and Photobiological Sciences, 2022, 21, 1659-1675.	2.9	4
4	Highly Stable Au/Hexaniobate Nanocomposite Prepared by a Green Intercalation Method for Photoinduced H₂ Evolution Applications. ACS Applied Energy Materials, 2022, 5, 8371-8380.	5.1	2
5	Mechanistic Investigation of the Aerobic Oxidation of 2-pyridylacetate Coordinated to a Ru(II) Polypyridyl Complex. Dalton Transactions, 2021, 50, 15248-15259.	3.3	3
6	Photoinduced H2 Evolution by Hexaniobate Sheets Grafted with Metal Ions: The Fate of Photogenerated Carriers. ACS Applied Energy Materials, 2021, 4, 3681-3692.	5.1	8
7	Application of EPR Spectroscopy in TiO2 and Nb2O5 Photocatalysis. Catalysts, 2021, 11, 1514.	3.5	28
8	Electrocatalytic water oxidation reaction promoted by cobalt-Prussian blue and its thermal decomposition product under mild conditions. Dalton Transactions, 2020, 49, 16488-16497.	3.3	13
9	Spectroscopic characterization of a new Re(<scp>i</scp>) tricarbonyl complex with a thiosemicarbazone derivative: towards sensing and electrocatalytic applications. Dalton Transactions, 2020, 49, 16368-16379.	3.3	8
10	Intramolecular C(sp²)â€“C (sp²) bond formation between phenanthroline and Î²-diketone thiosemicarbazones in Pt^{II} complexes: crystal structures and computational studies. Dalton Transactions, 2020, 49, 9564-9567.	3.3	1
11	Innovative multifunctional hybrid photoelectrode design based on a ternary heterojunction with super-enhanced efficiency for artificial photosynthesis. Scientific Reports, 2020, 10, 10669.	3.3	4
12	Recent Advances in Niobium-Based Materials for Photocatalytic Solar Fuel Production. Catalysts, 2020, 10, 126.	3.5	55
13	Aluminum oxides as alternative building blocks for efficient layer-by-layer blocking layers in dye-sensitized solar cells. Journal of Physics Condensed Matter, 2020, 33, 055002.	1.8	2
14	Photocatalytic properties of layer-by-layer thin films of hexaniobate nanoscrolls. Catalysis Today, 2019, 326, 60-67.	4.4	14
15	Unraveling the photocatalytic properties of TiO2/WO3 mixed oxidesâ€. Photochemical and Photobiological Sciences, 2019, 18, 2469-2483.	2.9	35
16	Nb2O5 dye-sensitized solar cells. , 2019, , 287-322.		14
17	Effect of Gd3+ doping on structural and photocatalytic properties of ZnO obtained by facile microwave-hydrothermal method. SN Applied Sciences, 2019, 1, 1.	2.9	23
18	Influence of the preparation conditions on the morphology and photocatalytic performance Pt-modified hexaniobate composites. Journal of Physics Condensed Matter, 2019, 31, 394001.	1.8	9

#	Article	IF	Citations
19	Photoelectrochemical hydrogen production from water splitting using heterostructured nanowire arrays of Bi2O3/BiAl oxides as a photocathode. Solar Energy Materials and Solar Cells, 2019, 194, 276-284.	6.2	28
20	Inorganic Photochemistry and Solar Energy Harvesting: Current Developments and Challenges to Solar Fuel Production. International Journal of Photoenergy, 2019, 2019, 1-23.	2.5	35
21	Photophysical and DFT Studies of Cationic Ag(I) Complexes with Thiosemicarbazides Derived from pâ€Toluenesulfohydrazide. ChemistrySelect, 2018, 3, 2108-2114.	1.5	2
22	Photochemistry of fac-[Re(CO)₃(dcbH₂)(trans-stpy)]⁺: New Insights on the Isomerization Mechanism of Coordinated Stilbene-like Ligands. Inorganic Chemistry, 2018, 57, 2933-2941.	4.0	19
23	New insights into the plasmonic enhancement for photocatalytic H₂ production by Cuâ€“TiO₂ upon visible light illumination. Physical Chemistry Chemical Physics, 2018, 20, 5264-5273.	2.8	60
24	Photocatalytic CO₂ Reduction by Re(I) Polypyridyl Complexes Immobilized on Niobates Nanoscrolls. ACS Sustainable Chemistry and Engineering, 2018, 6, 6073-6083.	6.7	34
25	High Water Oxidation Performance of Wâ€Doped BiVO₄ Photoanodes Coupled to V₂O₅ Rods as a Photoabsorber and Hole Carrier. Solar Rrl, 2018, 2, 1800089.	5.8	22
26	Quenching Effects of Graphene Oxides on the Fluorescence Emission and Reactive Oxygen Species Generation of Chloroaluminum Phthalocyanine. Journal of Physical Chemistry A, 2018, 122, 6842-6851.	2.5	14
27	Cu(I) complexes with thiosemicarbazides derived from p-toluenesulfohydrazide: Structural, luminescence and biological studies. Polyhedron, 2018, 155, 170-179.	2.2	14
28	Transient Absorption Studies on Nanostructured Materials and Composites: Towards the Development of New Photocatalytic Systems. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1469-1493.	2.8	10
29	INFLUÃŠNCIA DA RIGIDEZ DO MEIO NA CINÃ‰TICA DO FOTOCROMISMO DE DITIZONATOS METÃLICOS. Quimica Nova, 2018, , .	0.3	0
30	Effect of Er 3+ ions on the phase formation and properties of In 2 O 3 nanostructures crystallized upon microwave heating. Journal of Solid State Chemistry, 2017, 249, 58-63.	2.9	14
31	Layer-by-layer assembled photocatalysts for environmental remediation and solar energy conversion. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2017, 32, 1-20.	11.6	36
32	Efficient Mineralization of Paracetamol Using the Nanocomposite TiO₂/Zn(II) Phthalocyanine as Photocatalyst. Journal of the Brazilian Chemical Society, 2016, , .	0.6	7
33	Contrasting photophysical properties of rhenium(<scp>i</scp>) tricarbonyl complexes having carbazole groups attached to the polypyridine ligand. Dalton Transactions, 2016, 45, 11688-11698.	3.3	35
34	Characterization of a highly efficient N-doped TiO₂ photocatalyst prepared via factorial design. New Journal of Chemistry, 2016, 40, 7846-7855.	2.8	23
35	A hole inversion layer at the BiVO4/Bi4V2O11 interface produces a high tunable photovoltage for water splitting. Scientific Reports, 2016, 6, 31406.	3.3	54
36	Charge carrier dynamics and photocatalytic behavior of TiO₂ nanopowders submitted to hydrothermal or conventional heat treatment. RSC Advances, 2015, 5, 70536-70545.	3.6	61

#	Article	IF	Citations
37	Structural characterization of Ag-doped TiO₂ with enhanced photocatalytic activity. RSC Advances, 2015, 5, 103752-103759.	3.6	128
38	Synergism between n-type WO3 and p-type Î´-FeOOH semiconductors: High interfacial contacts and enhanced photocatalysis. Applied Catalysis B: Environmental, 2015, 165, 579-588.	20.2	54
39	Rapid Preparation of (BiO)2CO3Nanosheets by Microwave-Assisted Hydrothermal Method with Promising Photocatalytic Activity Under UV-Vis Light. Journal of the Brazilian Chemical Society, 2015, , .	0.6	3
40	Heterojunction Solar Cells. International Journal of Photoenergy, 2014, 2014, 1-2.	2.5	2
41	fac-[1,2-Bis(pyridin-4-yl)ethane-ÎºN]tricarbonyl(1,10-phenanthroline-Îº²N,Nâ€²)rhenium(I) hexafluoridophosphate acetonitrile monosolvate. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, m278-m279.	0.2	2
42	The photophysics of fac-[Re(CO)3(NN)(bpa)]+ complexes: a theoretical/experimental study. Photochemical and Photobiological Sciences, 2014, 13, 1213-1224.	2.9	19
43	Layer-by-Layer TiO₂/WO₃ Thin Films As Efficient Photocatalytic Self-Cleaning Surfaces. ACS Applied Materials & Interfaces, 2014, 6, 16859-16866.	8.0	99
44	New layer-by-layer Nb₂O₅â€“TiO₂ film as an effective underlayer in dye-sensitised solar cells. RSC Advances, 2014, 4, 10310-10316.	3.6	19
45	COORDINATION CHEMISTRY AND SOLAR FUEL PRODUCTION. Quimica Nova, 2014, , .	0.3	1
46	Solid State Molecular Device Based on a Rhenium(I) Polypyridyl Complex Immobilized on TiO₂ Films. Inorganic Chemistry, 2013, 52, 5889-5896.	4.0	35
47	Influence of the Sol-Gel pH Process and Compact Film on the Efficiency of -Based Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2012, 2012, 1-7.	2.5	17
48	Interfacial Electron Transfer Dynamics Following Laser Flash Photolysis of [Ru(bpy)₂((4,4â€²â€PO₃H₂)₂bpy)]²⁺ in TiO₂ Nanoparticle Films in Aqueous Environments. ChemSusChem, 2011, 4, 216-227.	6.8	71
49	Making solar fuels by artificial photosynthesis. Pure and Applied Chemistry, 2011, 83, 749-768.	1.9	123
50	Em busca da sustentabilidade: cÃ©lulas solares sensibilizadas por extratos naturais. Quimica Nova, 2010, 33, 574-578.	0.3	17
51	Excited-State Dynamics in fac-[Re(CO)₃(Me₄phen)(L)]⁺. Journal of Physical Chemistry A, 2010, 114, 12129-12137.	2.5	56
52	Role of Polyelectrolyte for Layer-by-Layer Compact TiO₂ Films in Efficiency Enhanced Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 17954-17959.	3.1	47
53	Layer-by-layer TiO2 films as efficient blocking layers in dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 205, 23-27.	3.9	76
54	Efficient and low cost devices for solar energy conversion: Efficiency and stability of some natural-dye-sensitized solar cells. Synthetic Metals, 2009, 159, 2342-2344.	3.9	53

#	Article	IF	Citations
55	On the energy transfer from a polymer host to the rhenium(I) complex in OLEDs. Synthetic Metals, 2009, 159, 2315-2317.	3.9	25
56	Making Oxygen with Ruthenium Complexes. Accounts of Chemical Research, 2009, 42, 1954-1965.	15.6	788
57	XPS characterization of sensitized n-TiO2 thin films for dye-sensitized solar cell applications. Applied Surface Science, 2008, 254, 1874-1879.	6.1	83
58	Photoswitches and Luminescent Rigidity Sensors Based onfac-[Re(CO)3(Me4phen)(L)]+. Inorganic Chemistry, 2008, 47, 10851-10857.	4.0	58
59	Opto-electrical properties of single layer flexible electroluminescence device with ruthenium complex. Journal of Non-Crystalline Solids, 2008, 354, 2571-2574.	3.1	18
60	Development and characterization of lightâ€emitting diodes (LEDs) based on ruthenium complex single layer for transparent displays. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2057-2060.	1.8	12
61	Light driven trans-to-cis isomerization of stilbene-like ligands in fac-[Re(CO)3(NN)(trans-L)]+ and luminescence of their photoproducts. Coordination Chemistry Reviews, 2006, 250, 1669-1680.	18.8	122
62	CÃ©lulas solares sensibilizadas por pontos quÃ¢nticos. Quimica Nova, 0, , .	0.3	0
63	Influence of the Protonatable Site in the Photo-Induced Proton-Coupled Electron Transfer between Rhenium(I) Polypyridyl Complexes and Hydroquinone. Journal of the Brazilian Chemical Society, 0, , .	0.6	2
64	REDUÃ‡ÃƒO DE CO2 EM HIDROCARBONETOS E OXIGENADOS: FUNDAMENTOS, ESTRATÃ‰GIAS E DESAFIOS. Quimica Nova, 0, , .	0.3	3
65	Temperature Dependent Emission Properties of ReI Tricarbonyl Complexes with Dipyrido-Quinoxaline and Phenazine Ligands. Journal of the Brazilian Chemical Society, 0, , .	0.6	0