

# Cláudia G Silva

## List of Publications by Year in descending order

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92  
papers

7,022  
citations

71102

41  
h-index

56724

83  
g-index

98  
all docs

98  
docs citations

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times ranked

9748  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Excitation Wavelength (UV or Visible Light) on the Photocatalytic Activity of Titania Containing Gold Nanoparticles for the Generation of Hydrogen or Oxygen from Water. <i>Journal of the American Chemical Society</i> , 2011, 133, 595-602.	13.7	927
2	Water Stable Zr <sup>4+</sup> -Benzenedicarboxylate Metal-Organic Frameworks as Photocatalysts for Hydrogen Generation. <i>Chemistry - A European Journal</i> , 2010, 16, 11133-11138.	3.3	718
3	Layered Double Hydroxides as Highly Efficient Photocatalysts for Visible Light Oxygen Generation from Water. <i>Journal of the American Chemical Society</i> , 2009, 131, 13833-13839.	13.7	488
4	Metal-organic frameworks as semiconductors. <i>Journal of Materials Chemistry</i> , 2010, 20, 3141.	6.7	441
5	Photochemical and photocatalytic degradation of an azo dye in aqueous solution by UV irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003, 155, 133-143.	3.9	325
6	A review on the coal gasification wastewater treatment technologies: past, present and future outlook. <i>Journal of Cleaner Production</i> , 2016, 126, 38-55.	9.3	190
7	Laccase immobilization over multi-walled carbon nanotubes: Kinetic, thermodynamic and stability studies. <i>Journal of Colloid and Interface Science</i> , 2015, 454, 52-60.	9.4	174
8	Photocatalytic and photochemical degradation of mono-, di- and tri-azo dyes in aqueous solution under UV irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 181, 314-324.	3.9	152
9	Ce-doped TiO <sub>2</sub> for photocatalytic degradation of chlorophenol. <i>Catalysis Today</i> , 2009, 144, 13-18.	4.4	148
10	Photocatalytic degradation of Chromotrope 2R using nanocrystalline TiO <sub>2</sub> /activated-carbon composite catalysts. <i>Applied Catalysis B: Environmental</i> , 2007, 70, 470-478.	20.2	145
11	Preparation and characterization of nanostructured MWCNT-TiO <sub>2</sub> composite materials for photocatalytic water treatment applications. <i>Materials Research Bulletin</i> , 2008, 43, 958-967.	5.2	143
12	Photocatalytic oxidation of benzene derivatives in aqueous suspensions: Synergic effect induced by the introduction of carbon nanotubes in a TiO <sub>2</sub> matrix. <i>Applied Catalysis B: Environmental</i> , 2010, 101, 81-89.	20.2	137
13	Novel hybrids of graphitic carbon nitride sensitized with free-base meso-tetrakis(carboxyphenyl) porphyrins for efficient visible light photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 56-69.	20.2	136
14	Metal-free g-C <sub>3</sub> N <sub>4</sub> photocatalysis of organic micropollutants in urban wastewater under visible light. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 184-192.	20.2	124
15	Enhanced biocatalytic sustainability of laccase by immobilization on functionalized carbon nanotubes/polysulfone membranes. <i>Chemical Engineering Journal</i> , 2019, 355, 974-985.	12.7	124
16	Graphitic carbon nitride modified by thermal, chemical and mechanical processes as metal-free photocatalyst for the selective synthesis of benzaldehyde from benzyl alcohol. <i>Journal of Catalysis</i> , 2017, 353, 44-53.	6.2	109
17	Ag-loaded ZnO materials for photocatalytic water treatment. <i>Chemical Engineering Journal</i> , 2017, 318, 95-102.	12.7	105
18	Homogeneous and heterogeneous photo-Fenton degradation of antibiotics using an innovative static mixer photoreactor. <i>Chemical Engineering Journal</i> , 2017, 310, 342-351.	12.7	94

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19	Carbon nanotube-TiO <sub>2</sub> thin films for photocatalytic applications. <i>Catalysis Today</i> , 2011, 161, 91-96.	4.4	93
20	Photocatalytic production of hydrogen from methanol and saccharides using carbon nanotube-TiO <sub>2</sub> catalysts. <i>Applied Catalysis B: Environmental</i> , 2015, 178, 82-90.	20.2	93
21	β-Cyclodextrin as a Precursor to Holey C <sub>3</sub> N <sub>4</sub> Nanosheets for Photocatalytic Hydrogen Generation. <i>ChemSusChem</i> , 2018, 11, 2681-2694.	6.8	92
22	Synergistic effect between carbon nanomaterials and ZnO for photocatalytic water decontamination. <i>Journal of Catalysis</i> , 2015, 331, 172-180.	6.2	91
23	Photocatalytic degradation of caffeine: Developing solutions for emerging pollutants. <i>Catalysis Today</i> , 2013, 209, 108-115.	4.4	88
24	Photocatalytic nitrate reduction over Pd-Cu/TiO <sub>2</sub> . <i>Chemical Engineering Journal</i> , 2014, 251, 123-130.	12.7	88
25	Effect of key operational parameters on the photocatalytic oxidation of phenol by nanocrystalline sol-gel TiO <sub>2</sub> under UV irradiation. <i>Journal of Molecular Catalysis A</i> , 2009, 305, 147-154.	4.8	86
26	Metal-free carbon nitride photocatalysis with in situ hydrogen peroxide generation for the degradation of aromatic compounds. <i>Applied Catalysis B: Environmental</i> , 2019, 252, 128-137.	20.2	85
27	Graphitic carbon nitride nanosheets as highly efficient photocatalysts for phenol degradation under high-power visible LED irradiation. <i>Materials Research Bulletin</i> , 2018, 100, 322-332.	5.2	75
28	Selective photocatalytic oxidation of benzyl alcohol to benzaldehyde by using metal-loaded g-C <sub>3</sub> N <sub>4</sub> photocatalysts. <i>Catalysis Today</i> , 2017, 287, 70-77.	4.4	72
29	Single-atom Ir and Ru anchored on graphitic carbon nitride for efficient and stable electrocatalytic/photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121318.	20.2	72
30	Carbon-based TiO <sub>2</sub> materials for the degradation of Microcystin-LA. <i>Applied Catalysis B: Environmental</i> , 2015, 170-171, 74-82.	20.2	66
31	Developing highly active photocatalysts: Gold-loaded ZnO for solar phenol oxidation. <i>Journal of Catalysis</i> , 2014, 316, 182-190.	6.2	65
32	Degradation of diclofenac in water under LED irradiation using combined g-C <sub>3</sub> N <sub>4</sub> /NH <sub>2</sub> -MIL-125 photocatalysts. <i>Journal of Hazardous Materials</i> , 2021, 416, 126199.	12.4	64
33	Photocatalytic Oxidation of Phenolic Compounds by Using a Carbon Nanotube-Titanium Dioxide Composite Catalyst. <i>ChemSusChem</i> , 2010, 3, 609-618.	6.8	63
34	Photocatalytic activity of TiO <sub>2</sub> -coated glass raschig rings on the degradation of phenolic derivatives under simulated solar light irradiation. <i>Chemical Engineering Journal</i> , 2013, 224, 32-38.	12.7	61
35	Photochemical and photocatalytic degradation of trans-resveratrol. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 638-644.	2.9	59
36	Solar photocatalytic degradation of parabens using UiO-66-NH <sub>2</sub> . <i>Separation and Purification Technology</i> , 2022, 286, 120467.	7.9	58

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37	Anatase vs. rutile efficiency on the photocatalytic degradation of clofibric acid under near UV to visible irradiation. Photochemical and Photobiological Sciences, 2009, 8, 705-711.	2.9	50
38	Photocatalytic performance of Au/ZnO nanocatalysts for hydrogen production from ethanol. Applied Catalysis A: General, 2016, 518, 198-205.	4.3	50
39	Recent Strategies for Hydrogen Peroxide Production by Metal-Free Carbon Nitride Photocatalysts. Catalysts, 2019, 9, 990.	3.5	50
40	Recent Strategies and Applications for L-Asparaginase Confinement. Molecules, 2020, 25, 5827.	3.8	47
41	Photocatalytic synthesis of vanillin using N-doped carbon nanotubes/ZnO catalysts under UV-LED irradiation. Applied Catalysis A: General, 2018, 551, 71-78.	4.3	44
42	Magnetically recoverable Fe <sub>3</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> composite for photocatalytic production of benzaldehyde under UV-LED radiation. Catalysis Today, 2019, 328, 293-299.	4.4	43
43	Nanodiamond-TiO <sub>2</sub> composites for photocatalytic degradation of microcystin-LA in aqueous solutions under simulated solar light. RSC Advances, 2015, 5, 58363-58370.	3.6	39
44	Efficient removal of parabens from real water matrices by a metal-free carbon nitride photocatalyst. Science of the Total Environment, 2020, 716, 135346.	8.0	37
45	Intensification strategies for improving the performance of photocatalytic processes: A review. Journal of Cleaner Production, 2022, 340, 130800.	9.3	37
46	A strategy for improving peroxidase stability via immobilization on surface modified multi-walled carbon nanotubes. Journal of Chemical Technology and Biotechnology, 2015, 90, 1570-1578.	3.2	29
47	Continuous flow photo-Fenton treatment of ciprofloxacin in aqueous solutions using homogeneous and magnetically recoverable catalysts. Environmental Science and Pollution Research, 2014, 21, 11116-11125.	5.3	28
48	Carbon-nanotube/TiO <sub>2</sub> materials synthesized by a one-pot oxidation/hydrothermal route for the photocatalytic production of hydrogen from biomass derivatives. Materials Science in Semiconductor Processing, 2020, 115, 105098.	4.0	28
49	Visible-light-induced self-cleaning functional fabrics using graphene oxide/carbon nitride materials. Applied Surface Science, 2019, 497, 143757.	6.1	27
50	Evaluation of sol-gel TiO <sub>2</sub> photocatalysts modified with carbon or boron compounds and crystallized in nitrogen or air atmospheres. Chemical Engineering Journal, 2015, 277, 11-20.	12.7	26
51	Controlling the Surface Chemistry of Multiwalled Carbon Nanotubes for the Production of Highly Efficient and Stable Laccase-Based Biocatalysts. ChemPlusChem, 2014, 79, 1116-1122.	2.8	23
52	Advances on Graphyne Family Members for Superior Photocatalytic Behavior. Advanced Science, 2021, 8, 2003900.	11.2	22
53	Simultaneous photochemical and photocatalyzed liquid phase reactions: Dye decolorization kinetics. Catalysis Today, 2015, 240, 80-85.	4.4	21
54	Catalytic and Photocatalytic Nitrate Reduction Over Pd-Cu Loaded Over Hybrid Materials of Multi-Walled Carbon Nanotubes and TiO <sub>2</sub> . Frontiers in Chemistry, 2018, 6, 632.	3.6	21

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55	Photo-Fenton degradation assisted by in situ generation of hydrogen peroxide using a carbon nitride photocatalyst. <i>Journal of Water Process Engineering</i> , 2020, 37, 101467.	5.6	21
56	Tailoring the properties of immobilized titanium dioxide/carbon nanotube composites for photocatalytic water treatment. <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 945-953.	6.7	20
57	Development and characterization of a novel <i>l</i> -asparaginase/MWCNT nanobioconjugate. <i>RSC Advances</i> , 2020, 10, 31205-31213.	3.6	20
58	Facile Preparation of ZnO/CNTs Nanocomposites via ALD for Photocatalysis Applications. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 1743-1750.	2.0	19
59	MIL-160(Al) MOFs potential in adsorptive water harvesting. <i>Adsorption</i> , 2021, 27, 213-226.	3.0	18
60	Synthesis of selected aromatic aldehydes under UV-LED irradiation over a hybrid photocatalyst of carbon nanofibers and zinc oxide. <i>Catalysis Today</i> , 2019, 328, 286-292.	4.4	16
61	An innovative static mixer photoreactor: Proof of concept. <i>Chemical Engineering Journal</i> , 2016, 287, 419-424.	12.7	14
62	Selective Production of Benzaldehyde Using Metal-Free Reduced Graphene Oxide/Carbon Nitride Hybrid Photocatalysts. <i>ChemistrySelect</i> , 2018, 3, 8070-8081.	1.5	14
63	Kinetic modelling for the photocatalytic degradation of phenol by using $\text{TiO}_2$ -coated glass raschig rings under simulated solar light. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 346-352.	3.2	13
64	Water vapor harvesting by a (P)TSA process with MIL-125(Ti)-NH <sub>2</sub> as adsorbent. <i>Separation and Purification Technology</i> , 2020, 237, 116336.	7.9	13
65	Selective photocatalytic synthesis of benzaldehyde in microcapillaries with immobilized carbon nitride. <i>Chemical Engineering Journal</i> , 2022, 430, 132643.	12.7	13
66	Adsorption equilibrium of xylene isomers and ethylbenzene on MIL-125(Ti)-NH <sub>2</sub> : the temperature influence on the para-selectivity. <i>Adsorption</i> , 2018, 24, 715-724.	3.0	12
67	Outstanding response of carbon nitride photocatalysts for selective synthesis of aldehydes under UV-LED irradiation. <i>Catalysis Today</i> , 2020, 357, 32-38.	4.4	12
68	Aqueous solution photocatalytic synthesis of <i>p</i> -anisaldehyde by using graphite-like carbon nitride photocatalysts obtained via the hard-templating route. <i>RSC Advances</i> , 2020, 10, 19431-19442.	3.6	12
69	Atmospheric water harvesting on MIL-100(Fe) upon a cyclic adsorption process. <i>Separation and Purification Technology</i> , 2022, 290, 120803.	7.9	12
70	Enhanced efficiency of the visible-light photocatalytic hydrogen generation by the ruthenium tris(2,2'-bipyridyl)-methyl viologen system in the presence of cucurbit[n]urils. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 1650.	2.9	10
71	A microfluidic reactor application for the continuous-flow photocatalytic selective synthesis of aromatic aldehydes. <i>Applied Catalysis A: General</i> , 2020, 608, 117844.	4.3	10
72	Sustainable production of value-added chemicals and fuels by using a citric acid-modified carbon nitride optical semiconductor. <i>Applied Catalysis A: General</i> , 2021, 609, 117912.	4.3	10

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73	Overview on Protein Extraction and Purification Using Ionic-Liquid-Based Processes. Journal of Solution Chemistry, 2022, 51, 243-278.	1.2	10
74	Graphitic carbon nitride photocatalysis: the hydroperoxyl radical role revealed by kinetic modelling. Catalysis Science and Technology, 2021, 11, 7712-7726.	4.1	10
75	Light-driven oxygen evolution from water oxidation with immobilised TiO <sub>2</sub> engineered for high performance. Scientific Reports, 2021, 11, 21306.	3.3	8
76	Structured TiO <sub>2</sub> based catalysts for clean water technologies. Studies in Surface Science and Catalysis, 2006, 162, 151-158.	1.5	7
77	Efficiency and stability of metal-free carbon nitride in the photocatalytic ozonation of oxamic acid under visible light. Journal of Environmental Chemical Engineering, 2020, 8, 104172.	6.7	7
78	L-Asparaginase-Based Biosensors. Encyclopedia, 2021, 1, 848-858.	4.5	7
79	Interactions of pharmaceutical compounds in water matrices under visible-driven photocatalysis. Journal of Environmental Chemical Engineering, 2021, 9, 104747.	6.7	6
80	Superior operational stability of immobilized l-asparaginase over surface-modified carbon nanotubes. Scientific Reports, 2021, 11, 21529.	3.3	6
81	Role of TiO <sub>2</sub> -based photocatalysts on the synthesis of the pharmaceutical precursor benzhydrol by UVA-LED radiation. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 391, 112350.	3.9	4
82	Immobilization and Characterization of L-Asparaginase over Carbon Xerogels. BioTech, 2022, 11, 10.	2.6	4
83	Nanocrystalline CNT-TiO <sub>2</sub> Composites Produced by an Acid Catalyzed Sol-Gel Method. Materials Science Forum, 2008, 587-588, 849-853.	0.3	3
84	Consecutive Flow Distributor Device for Mesostructured Reactors and Networks of Reactors. Chemical Engineering and Processing: Process Intensification, 2021, 167, 108541.	3.6	3
85	Synthesis of Vitamin B3 through a Heterogeneous Photocatalytic Approach Using Metal-Free Carbon Nitride-Based Catalysts. Molecules, 2022, 27, 1295.	3.8	3
86	Chitosan-based electrolytes containing carbon nanotube-titanium dioxide for energy conversion devices applications. Iranian Polymer Journal (English Edition), 2022, 31, 1197-1208.	2.4	3
87	Treatment of centrifugal mother liquid of polyvinyl chloride by internal circulation aerobic biofilm reactor: Lab to plant scale system. Journal of Cleaner Production, 2018, 200, 568-577.	9.3	2
88	Impact of atomic layer deposited TiO <sub>2</sub> on the photocatalytic efficiency of TiO <sub>2</sub> /w-VA-CNT nanocomposite materials. RSC Advances, 2022, 12, 16419-16430.	3.6	2
89	Sustainable Bleaching Process of Raw Cotton by TiO <sub>2</sub> Light-Activated Nanoparticles. U Porto Journal of Engineering, 2020, 6, 11-21.	0.4	1
90	Characterization of Biocompatible Nanocomposite based on Silica, Dextran and Lidocaine. Journal of Nanosciences Current Research, 2016, 01, .	1.2	0

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91	Biomedical-related applications of functionalized nanomaterials. , 2020, , 205-230.		0
92	Synthesis and performance of a composite photocatalyst based on polyester-supported carbon nitride nanosheets for selective oxidation of anisyl alcohol. Surfaces and Interfaces, 2022, 30, 101938.	3.0	0