Ricardo Gomez

List of Publications by Year
in descending order

73 papers	3,295 citations	257450 24 h-index	149698 56 g-index
73 all docs	73 docs citations	73 times ranked	4951 citing authors

#	Article	IF	Citations
1	Band-gap energy estimation from diffuse reflectance measurements on solâ€“gel and commercial TiO2: a comparative study. Journal of Sol-Gel Science and Technology, 2012, 61, 1-7.	2.4	1,331
2	Adsorption and photocatalytic degradation of phenol and 2,4 dichlorophenoxiacetic acid by Mgâ€“Znâ€“Al layered double hydroxides. Applied Catalysis B: Environmental, 2009, 90, 330-338.	20.2	232
3	Photophysical and photocatalytic properties of nanosized copper-doped titania solâ€“gel catalysts. Catalysis Today, 2009, 148, 103-108.	4.4	159
4	Photocatalytic hydrogen production by water/methanol decomposition using Au/TiO2 prepared by depositionâ€“precipitation with urea. Journal of Hazardous Materials, 2013, 263, 2-10.	12.4	97
5	MTBE visible-light photocatalytic decomposition over Au/TiO2 and Au/TiO2â€“Al2O3 solâ€“gel prepared catalysts. Journal of Molecular Catalysis A, 2008, 281, 93-98.	4.8	86
6	Photodegradation of the herbicide 2,4-dichlorophenoxyacetic acid on nanocrystalline TiO2â€“CeO2 solâ€“gel catalysts. Journal of Molecular Catalysis A, 2008, 281, 119-125.	4.8	69
7	Enhancing the H2 evolution from waterâ€“methanol solution using Mn2+â€“Mn+3â€“Mn4+ redox species of Mn-doped TiO2 solâ€“gel photocatalysts. Catalysis Today, 2016, 266, 9-16.	4.4	65
8	Interfacial charge-transfer process across ZrO2-TiO2 heterojunction and its impact on photocatalytic activity. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 335, 276-286.	3.9	64
9	Photocatalytic hydrogen production by Auâ€“MxOy (M Ag, Cu, Ni) catalysts supported on TiO2. Catalysis Communications, 2014, 47, 1-6.	3.3	58
10	Kinetic study of the 4-Nitrophenol photooxidation and photoreduction reactions using CdS. Applied Catalysis B: Environmental, 2014, 144, 507-513.	20.2	54
11	Enhanced photocatalytic hydrogen production by CdS nanofibers modified with graphene oxide and nickel nanoparticles under visible light. Fuel, 2019, 237, 227-235.	6.4	51
12	Photodegradation of Indigo Carmine dye by CdS nanostructures under blue-light irradiation emitted by LEDs. Catalysis Today, 2016, 266, 27-35.	4.4	43
13	Visible light photocatalytic reduction of 4-Nitrophenol using CdS in the presence of Na2SO3. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 257, 44-49.	3.9	40
14	An efficient ZnS-UV photocatalysts generated in situ from ZnS(en)0.5 hybrid during the H2 production in methanolâ€“water solution. International Journal of Hydrogen Energy, 2012, 37, 17002-17008.	7.1	38
15	Preparation of efficient cadmium sulfide nanofibers for hydrogen production using ethylenediamine (NH2CH2CH2NH2) as template. Journal of Colloid and Interface Science, 2015, 451, 40-45.	9.4	37
16	Photocatalytic degradation of phenol using MgAlSn hydrotalcite-like compounds. Applied Clay Science, 2016, 129, 71-78.	5.2	34
17	Degradation of the herbicide 2,4-dichlorophenoxyacetic acid over TiO2â€“CeO2 solâ€“gel photocatalysts: Effect of the annealing temperature on the photoactivity. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 217, 383-388.	3.9	33
18	Room temperature olefins oligomerization over sulfated titania. Chemical Communications, 2004, , 1498-1499.	4.1	31

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19	Mn-doped Zn/Al layered double hydroxides as photocatalysts for the 4-chlorophenol photodegradation. Applied Clay Science, 2015, 118, 38-47.	5.2	31
20	Enhanced photocatalytic degradation of 4-chlorophenol and 2,4-dichlorophenol on<i>in situ</i>phosphated sol-gel TiO₂. Journal of Chemical Technology and Biotechnology, 2016, 91, 2170-2178.	3.2	31
21	Synthesis of CdS/MgAl layered double hydroxides for hydrogen production from methanol-water decomposition. Applied Clay Science, 2017, 136, 67-74.	5.2	29
22	Heterojunction formation on InVO4/N-TiO2 with enhanced visible light photocatalytic activity for reduction of 4-NP. Materials Science in Semiconductor Processing, 2019, 89, 201-211.	4.0	28
23	Comparative activity of CdS nanofibers superficially modified by Au, Cu, and Ni nanoparticles as co-catalysts for photocatalytic hydrogen production under visible light. Journal of Chemical Technology and Biotechnology, 2016, 91, 2205-2210.	3.2	27
24	Suitable preparation of Bi₂S₃nanorods -TiO₂heterojunction semiconductors with improved photocatalytic hydrogen production from water/methanol decomposition. Journal of Chemical Technology and Biotechnology, 2016, 91, 2198-2204.	3.2	26
25	Improved photocatalytic hydrogen production from methanol/water solution using CuO supported on fluorinated TiO₂. Journal of Chemical Technology and Biotechnology, 2018, 93, 1113-1120.	3.2	26
26	Photocatalytic reduction of 4-nitrophenol on in situ fluorinated solâ€“gel TiO2 under UV irradiation using Na2SO3 as reducing agent. Journal of Sol-Gel Science and Technology, 2016, 80, 426-435.	2.4	25
27	Photocatalytic Degradation of 4-Nitrophenol on Well Characterized Solâ€“Gel Molybdenum Doped Titania Semiconductors. Topics in Catalysis, 2011, 54, 504-511.	2.8	24
28	Improving photocatalytic reduction of 4-nitrophenol over ZrO₂â€“TiO₂ by synergistic interaction between methanol and sulfite ions. New Journal of Chemistry, 2017, 41, 12655-12663.	2.8	24
29	Enhanced photoreduction of Cr(VI) using ZnS(en)0.5 hybrid semiconductor. Catalysis Communications, 2012, 19, 51-55.	3.3	23
30	Intrinsically Formed Trivalent Titanium Ions in Solâ€“Gel Titania. Journal of the American Ceramic Society, 2001, 84, 392-98.	3.8	22
31	Caffeine photocatalytic degradation using composites of NiO/TiO2â€“F and CuO/TiO2â€“F under UV irradiation. Chemosphere, 2022, 288, 132506.	8.2	22
32	Novel preparation of ZnS from Zn5(CO3)2(OH)6 by the hydro- or solvothermal method for H2 production. Catalysis Today, 2017, 287, 91-98.	4.4	21
33	New nanostructured CdS fibers for the photocatalytic reduction of 4-nitrophenol. Powder Technology, 2013, 250, 97-102.	4.2	20
34	Combination of Mn oxidation states improves the photocatalytic degradation of phenol with ZnAl LDH materials without a source of O2 in the reaction system. Catalysis Today, 2016, 266, 62-71.	4.4	20
35	Preparation and characterization of the hybrid ZnS(en)0.5â€“CdS heterojunction. Materials Letters, 2014, 115, 147-150.	2.6	19
36	Efficient ZnO1-xSx composites from the Zn5(CO3)2(OH)6 precursor for the H2 production by photocatalysis. Renewable Energy, 2017, 113, 43-51.	8.9	17

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37	EVALUATION OF SULFATED ALUMINAS SYNTHESIZED VIA THE SOL-GEL METHOD IN THE ESTERIFICATION OF OLEIC ACID WITH ETHANOL. Chemical Engineering Communications, 2009, 196, 1152-1162.	2.6	16
38	Synthesis of Bi₂S₃nanorods supported on ZrO₂semiconductor as an efficient photocatalyst for hydrogen production under UV and visible light. Journal of Chemical Technology and Biotechnology, 2017, 92, 1503-1510.	3.2	16
39	Ga₂O₃/TiO₂ semiconductors free of noble metals for the photocatalytic hydrogen production in a water/methanol mixture. Journal of Chemical Technology and Biotechnology, 2019, 94, 3457-3465.	3.2	15
40	Synthesis and characterization of ZnZr composites for the photocatalytic degradation of phenolic molecules: addition effect of ZrO₂ over hydrozincite Zn₅(OH)₆(CO₃)₂. Journal of Chemical Technology and Biotechnology, 2019, 94, 3428-3439.	3.2	15
41	Photocatalytic Decomposition of Synthetic Alizarin Red S by Nickel Doped TiO2. Topics in Catalysis, 2011, 54, 490-495.	2.8	14
42	Photocatalytic reduction of Cr(VI) by using stacked ZnS layers of ZnS(en) x complex. Journal of Environmental Chemical Engineering, 2015, 3, 3048-3054.	6.7	14
43	Catalyst Doped Sol-Gel Materials. , 1994, , 345-371.		13
44	Sol-gel preparation of In2O3-Al2O3 supports with controlled textural and structural properties. Reaction Kinetics and Catalysis Letters, 2007, 90, 331-338.	0.6	13
45	Enhanced blue-light photocatalytic H2 production using CdS nanofiber. Catalysis Communications, 2014, 45, 139-143.	3.3	13
46	Photoreduction of 4-Nitrophenol in the presence of carboxylic acid using CdS nanofibers. Journal of Materials Science: Materials in Electronics, 2018, 29, 7345-7355.	2.2	13
47	Effective photocatalytic degradation of Rhodamine B using tin semiconductors over hydrotalcite-type materials under sunlight driven. Catalysis Today, 2021, 372, 191-197.	4.4	13
48	Synthesis of Camphene by Î±-Pinene Isomerization Using W2O3â€“Al2O3 Catalysts. Topics in Catalysis, 2010, 53, 1176-1178.	2.8	12
49	Hydrogen Production from Aqueous Methanol Solutions Using Tiâ€“Zr Mixed Oxides as Photocatalysts under UV Irradiation. Catalysts, 2019, 9, 938.	3.5	12
50	Effective electronâ€“hole separation over Nâ€doped TiO₂ materials for improved photocatalytic reduction of 4â€nitrophenol using visible light. Journal of Chemical Technology and Biotechnology, 2020, 95, 2694-2706.	3.2	12
51	Al2O3-TiO2 SOL-GEL MIXED OXIDES AS SUITABLE SUPPORTS FOR THE REDUCTION OF NO BY CO. Reaction Kinetics and Catalysis Letters, 2002, 76, 75-81.	0.6	11
52	IMPROVED SELECTIVITY TO C8-OLEFINS FOR ISOBUTENE OLIGOMERIZATION ON NIO-W2O3/Al2O3CATALYSTS. Chemical Engineering Communications, 2009, 196, 1198-1205.	2.6	11
53	Synthesis of new ZnSâ€“Bipy based hybrid organicâ€“inorganic materials for photocatalytic reduction of 4-nitrophenol. New Journal of Chemistry, 2015, 39, 2188-2194.	2.8	11
54	Title is missing!. Journal of Sol-Gel Science and Technology, 2000, 17, 219-225.	2.4	10

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55	Blue-photodecomposition of hydrazine in aqueous solution for H₂production by using CdS photocatalyst. Journal of Chemical Technology and Biotechnology, 2016, 91, 2179-2184.	3.2	9
56	TiO2 xerogels prepared by modified solâ€“gel method with ethylenediamine are photoactive for the 4-nitrophenol photoreduction. Journal of Sol-Gel Science and Technology, 2014, 72, 428-434.	2.4	8
57	Zn-Ge oxynitride based nano-photocatalyst for hydrogen production under visible light. Materials Research Bulletin, 2016, 83, 603-608.	5.2	8
58	Photocatalytic reduction of 4-nitrophenol to 4-aminophenol over CdS/MgAl layered double hydroxide catalysts under UV irradiation. Reaction Kinetics, Mechanisms and Catalysis, 2017, 122, 625-634.	1.7	8
59	Effect of Co-catalyst (CuO, CoO or NiO) on Bi2O3â€“TiO2 Structures and Its Impact on the Photocatalytic Reduction of 4-nitrophenol. Topics in Catalysis, 2021, 64, 112-120.	2.8	8
60	Synthesis of Ni/GO-TiO2 composites for the photocatalytic hydrogen production and CO2 reduction to methanol. Topics in Catalysis, 2022, 65, 1015-1027.	2.8	8
61	Synthesis and characterization of SnOx/Al2O3 derived gel catalysts. Reaction Kinetics and Catalysis Letters, 1996, 59, 247-251.	0.6	7
62	Effective phosphated CeO 2 materials in the photocatalytic degradation of phenol under UV irradiation. Journal of Chemical Technology and Biotechnology, 2020, 95, 3213-3220.	3.2	7
63	Title is missing!. Reaction Kinetics and Catalysis Letters, 2003, 79, 271-279.	0.6	6
64	Claisen-Schmidt condensation reaction on BaO-ZrO2 mixed oxides. Reaction Kinetics and Catalysis Letters, 2007, 92, 361-368.	0.6	6
65	Synthesis, characterization, and 2,4-dichlorophenoxyacetic acid degradation on In-Na2Ti6O13 solâ€“gel prepared photocatalysts. Research on Chemical Intermediates, 2010, 36, 5-15.	2.7	6
66	Structure Sensitivity of Sol-Gel Alkali Tantalates, ATaO₃ (A= Li, Na and K): Acetone Gas Phase Condensation. Advanced Materials Research, 2010, 132, 61-67.	0.3	5
67	Fourier Electron Density Maps for Nanostructured TiO₂ and TiO₂-CeO₂ Sol-Gel Solid. Journal of Nano Research, 2009, 5, 87-94.	0.8	4
68	Ni/C nanostructures: Impregnating-method preparation, textural and structural features, and catalytic property for the hydrogen production. Journal of Materials Research, 2013, 28, 3297-3309.	2.6	4
69	Photocatalytic oxidative esterification of benzaldehyde by V2O5â€“ZnO catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2017, 122, 1281-1296.	1.7	4
70	Thermal decomposition and FTIR study of pyridine adsorption on sonogel catalysts. Thermochimica Acta, 1995, 255, 319-328.	2.7	2
71	ZnS-Bipy hybrid materials for the photocatalytic generation of hydrogen from water. Catalysis Today, 2020, 341, 104-111.	4.4	2
72	Indium-Sensitized UV Photocatalysts Made from Alkali Titanate Microfibers. Materials Science Forum, 2009, 620-622, 651-654.	0.3	1

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73	Structural changes and photocatalytic aspects into anatase network after doping with cerium: Comprehensive study via radial distribution functions, electron density maps and molecular hardness. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 428, 113855.	3.9	1