Giovanni Palmisano

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

122
papers5,189
citations37
h-index70
g-index132
ext. papers5,855
ext. citations7.9
avg, IF5.88
L-index

Paper Citations Characterization techniques 2022, 243-314 122 Adsorption models, surface reaction, and catalyst architectures 2022, 63-99 121 Green heterogeneous catalysis 2022, 193-242 Design of a Microfluidic Photocatalytic Reactor for Removal of Volatile Organic Components: 119 3.9 O Process Simulation and Techno-Economic Assessment.. ACS Omega, 2022, 7, 8306-8313 Computational modeling of green hydrogen generation from photocatalytic H2S splitting: Overview and perspectives. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 118 16.4 **2021**, 49, 100456 3D printed photocatalytic feed spacers functionalized with FeOOH nanorods inducing pollutant degradation and membrane cleaning capabilities in water treatment. Applied Catalysis B: 21.8 6 117 Environmental, 2021, 300, 120318 Topologically non-trivial metal-organic assemblies inhibit 2-microglobulin amyloidogenesis. Cell 116 6.1 Reports Physical Science, 2021, 100477 Techno-Economic Evaluation of Photocatalytic H2S Splitting. Energy Technology, 2021, 9, 2100163 115 3.5 1 Photocatalytic Degradation of 2-propanol Over TiO2-based Thin Films in a Simulated Pilot 0.8 114 1 Microreactor. Journal of Photocatalysis, 2021, 2, 97-104 Three-dimensional CFD modelling of a photocatalytic parallel-channel microreactor. Chemical 113 7 4.4 Engineering Science, 2021, 229, 116051 A review of material aspects in developing direct Z-scheme photocatalysts. Materials Today, 2021, 21.8 112 42 47, 75-107 Techno-Economic Evaluation of Photocatalytic H2S Splitting. Energy Technology, 2021, 9, 2170082 111 3.5 O On the selectivity of butyric acid photoreforming over Au/TiO2 and Pt/TiO2 by UV and visible 110 2 radiation: A combined experimental and theoretical study. *Applied Catalysis A: General*, **2021**, 624, 11832^{5.1} Tuning the selectivity to aldehyde via pH regulation in the photocatalytic oxidation of 4-methoxybenzyl alcohol and vanillyl alcohol by TiO2 catalysts. Journal of Environmental Chemical 6.8 109 4 Engineering, 2021, 9, 105308 A review of recent and emerging antimicrobial nanomaterials in wastewater treatment 108 8.4 7 applications. Chemosphere, 2021, 278, 130440 Current and future perspectives on catalytic-based integrated carbon capture and utilization. 107 10.2 14 Science of the Total Environment, 2021, 790, 148081 Overview and challenges of the photolytic and photocatalytic splitting of H2S. Catalysis Today, 5.3 6 **2021**, 380, 125-137

105	Selective photocatalytic oxidation of 3-pyridinemethanol on platinized acid/base modified TiO2. <i>Catalysis Science and Technology</i> , 2021 , 11, 4549-4559	5.5	1
104	Graphene-based hybrid photocatalysts: a promising route toward high-efficiency photocatalytic water remediation 2020 , 325-359		
103	Synthesis and Surface Modification of TiO2-Based Photocatalysts for the Conversion of CO2. <i>Catalysts</i> , 2020 , 10, 227	4	44
102	Multilayer thin film structures for multifunctional glass: Self-cleaning, antireflective and energy-saving properties. <i>Applied Energy</i> , 2020 , 264, 114697	10.7	40
101	Highly stable defective TiO2-x with tuned exposed facets induced by fluorine: Impact of surface and bulk properties on selective UV/visible alcohol photo-oxidation. <i>Applied Surface Science</i> , 2020 , 510, 145419	6.7	16
100	Alkaline treatment as a means to boost the activity of TiO2 in selective photocatalytic processes. <i>Catalysis Science and Technology</i> , 2020 , 10, 5000-5012	5.5	5
99	Enhanced photoelectrochemical performance of atomic layer deposited Hf-doped ZnO. <i>Surface and Coatings Technology</i> , 2020 , 385, 125352	4.4	10
98	Modelling of a recirculating photocatalytic microreactor implementing mesoporous N-TiO2 modified with graphene. <i>Chemical Engineering Journal</i> , 2020 , 391, 123574	14.7	7
97	Water microbial disinfection via supported nAg/Kaolin in a fixed-bed reactor configuration. <i>Applied Clay Science</i> , 2020 , 184, 105387	5.2	6
96	Photocatalytic activity of neat and polymer-modified bitumen. <i>Applied Materials Today</i> , 2020 , 21, 1007	95 6.6	1
95	Combining energy efficiency with self-cleaning properties in smart glass functionalized with multilayered semiconductors. <i>Journal of Cleaner Production</i> , 2020 , 272, 122830	10.3	3
94	Hydrogen production upon UV-light irradiation of Cu/TiO2 photocatalyst in the presence of alkanol-amines. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 26701-26715	6.7	6
93	Metal-organic frameworks for photocatalytic CO2 reduction under visible radiation: A review of strategies and applications. <i>Catalysis Today</i> , 2020 , 340, 209-224	5.3	128
92	Photoactivated Fe(III)/Fe(II)/WO3 P d fuel cell for electricity generation using synthetic and real effluents under visible light. <i>Renewable Energy</i> , 2020 , 147, 1070-1081	8.1	10
91	Sputtered vs. sol-gel TiO2-doped films: Characterization and assessment of aqueous bisphenol A oxidation under UV and visible light radiation. <i>Catalysis Today</i> , 2020 , 357, 380-391	5.3	6
90	Unveiling the role of bisulfide in the photocatalytic splitting of H2S in aqueous solutions. <i>Applied Catalysis B: Environmental</i> , 2020 , 270, 118886	21.8	6
89	Combined photocatalytic properties and energy efficiency via multifunctional glass. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 102980	6.8	5
88	(Photo)catalyst Characterization Techniques 2019 , 87-152		20

87	Heterogeneous Photocatalysis and Catalysis: An Overview of Their Distinctive Features 2019 , 1-24		7
86	Hydrogen and Propane Production From Butyric Acid Photoreforming Over Pt-TiO. <i>Frontiers in Chemistry</i> , 2019 , 7, 563	5	6
85	Heterogeneous photocatalysis: guidelines on experimental setup, catalyst characterization, interpretation, and assessment of reactivity. <i>Catalysis Reviews - Science and Engineering</i> , 2019 , 61, 163-	2 13 .6	33
84	Long-Lasting Non-hydrogenated Dark Titanium Dioxide: Medium Vacuum Anneal for Enhanced Visible Activity of Modified Multiphase Photocatalysts. <i>ChemCatChem</i> , 2018 , 10, 2949-2954	5.2	15
83	Influence of fluorine on the synthesis of anatase TiO2 for photocatalytic partial oxidation: are exposed facets the main actors?. <i>Catalysis Science and Technology</i> , 2018 , 8, 1606-1620	5.5	18
82	Differences between bulk and surface electronic structure of doped TiO2 with soft-elements (C, N and S). <i>Materials Chemistry and Physics</i> , 2018 , 208, 281-288	4.4	8
81	In situ simultaneous photovoltaic and structural evolution of perovskite solar cells during film formation. <i>Energy and Environmental Science</i> , 2018 , 11, 383-393	35.4	67
80	Photoelectrochemical activity of electrospun WO3/NiWO4 nanofibers under visible light irradiation. <i>Journal of Materials Science</i> , 2018 , 53, 2208-2220	4.3	17
79	Photocatalytic ozonation under visible light for the remediation of water effluents and its integration with an electro-membrane bioreactor. <i>Chemosphere</i> , 2018 , 209, 534-541	8.4	24
78	Relating Photoelectrochemistry and Wettability of Sputtered Cu- and N-Doped TiO2 Thin Films via an Integrated Approach. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12369-12376	3.8	15
77	Influence of the Preparation Temperature on the Photocatalytic Activity of 3D-Ordered Macroporous Anatase Formed with an Opal Polymer Template. <i>ACS Applied Nano Materials</i> , 2018 , 1, 25	6 7 -257	′8 ⁶
76	Overview on microfluidic reactors in photocatalysis: Applications of graphene derivatives. <i>Catalysis Today</i> , 2018 , 315, 79-92	5.3	34
75	Selective photocatalytic oxidation of aromatic alcohols in solar-irradiated aqueous suspensions of Pt, Au, Pd and Ag loaded TiO2 catalysts. <i>Catalysis Today</i> , 2017 , 281, 53-59	5.3	42
74	Towards the Broad Utilization of Gold Nanoparticles Entrapped in Organosilica. <i>ChemCatChem</i> , 2017 , 9, 1322-1328	5.2	4
73	Micro-mesoporous N-doped brookite-rutile TiO2 as efficient catalysts for water remediation under UV-free visible LED radiation. <i>Journal of Catalysis</i> , 2017 , 346, 109-116	7.3	36
72	Citrate-stabilized gold nanoparticles hinder fibrillogenesis of a pathological variant of Emicroglobulin. <i>Nanoscale</i> , 2017 , 9, 3941-3951	7.7	22
71	Inorganic semiconductors-graphene composites in photo(electro)catalysis: Synthetic strategies, interaction mechanisms and applications. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2017 , 33, 132-164	16.4	43
70	Radiation-free superhydrophilic and antifogging properties of e-beam evaporated TiO 2 films on glass. <i>Applied Surface Science</i> , 2017 , 420, 83-93	6.7	36

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69	and activity under low energy visible radiation. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 5091-5098	6.8	10	
68	N-TiO2/Cu-TiO2 double-layer films: Impact of stacking order on photocatalytic properties. <i>Journal of Catalysis</i> , 2017 , 353, 116-122	7.3	17	
67	Antifouling and Photocatalytic Antibacterial Activity of the AquaSun Coating in Seawater and Related Media. <i>ACS Omega</i> , 2017 , 2, 7568-7575	3.9	8	
66	Silica-Based Sol © el Coatings: A Critical Perspective from a Practical Viewpoint 2016 , 149-159		5	
65	Integrated Nano- and Macroscale Investigation of Photoinduced Hydrophilicity in TiO Thin Films. <i>Langmuir</i> , 2016 , 32, 11813-11818	4	12	
64	Selective photooxidation of ortho-substituted benzyl alcohols and the catalytic role of ortho-methoxybenzaldehyde. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 328, 122-	128	5	
63	Photocatalytic activity of an electrophoretically deposited composite titanium dioxide membrane using carbon cloth as a conducting substrate. <i>RSC Advances</i> , 2016 , 6, 64219-64227	3.7	5	
62	Nanoflower-Like Bi2 WO6 Encapsulated in ORMOSIL as a Novel Photocatalytic Antifouling and Foul-Release Coating. <i>Chemistry - A European Journal</i> , 2016 , 22, 7063-7	4.8	13	
61	E-beam evaporated TiO2 and Cu-TiO2 on glass: Performance in the discoloration of methylene blue and 2-propanol oxidation. <i>Applied Catalysis A: General</i> , 2016 , 526, 191-199	5.1	30	
60	Nanostructured anatase TiO2 densified at high pressure as advanced visible light photocatalysts. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 1685-93	4.2	15	
59	Heterogeneous Photocatalysis and Photoelectrocatalysis: From Unselective Abatement of Noxious Species to Selective Production of High-Value Chemicals. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1968-81	6.4	89	
58	Unexpectedly ambivalent O2 role in the autocatalytic photooxidation of 2-methoxybenzyl alcohol in water. <i>Journal of Molecular Catalysis A</i> , 2015 , 403, 37-42		6	
57	Validation of a two-dimensional modeling of an externally irradiated slurry photoreactor. <i>Chemical Engineering Journal</i> , 2015 , 262, 490-498	14.7	16	
56	Sol G el for Environmentally Green Products 2015 , 1055-1070		1	
55	Advances in anti-scale magnetic water treatment. <i>Environmental Science: Water Research and Technology</i> , 2015 , 1, 408-425	4.2	28	
54	Electrodes Functionalized with the 2,2,6,6-Tetramethylpiperidinyloxy Radical for the Waste-Free Oxidation of Alcohols. <i>ChemCatChem</i> , 2015 , 7, 552-558	5.2	37	
53	N-Doped Anatase/Rutile Photocatalysts for the Synthesis of Aromatic Aldehydes Under Ultraviolet and Solar Irradiation. <i>Science of Advanced Materials</i> , 2015 , 7, 2306-2319	2.3	10	
52	Sol-gel entrapped visible light photocatalysts for selective conversions. <i>RSC Advances</i> , 2014 , 4, 18341-18	83. 4 6	32	

51	Visible-light driven oxidation of gaseous aliphatic alcohols to the corresponding carbonyls via TiO2 sensitized by a perylene derivative. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 11135-41	5.1	26
50	Halloysite nanotube with fluorinated lumen: non-foaming nanocontainer for storage and controlled release of oxygen in aqueous media. <i>Journal of Colloid and Interface Science</i> , 2014 , 417, 66-7	19.3	63
49	Erratum to Two-Dimensional Modeling of an Externally Irradiated Slurry Photoreactor. <i>International Journal of Chemical Reactor Engineering</i> , 2014 , 12, 665-665	1.2	
48	Photocatalytic green synthesis of piperonal in aqueous TiO2 suspension. <i>Applied Catalysis B: Environmental</i> , 2014 , 144, 607-613	21.8	39
47	Photoelectrocatalytic selective oxidation of 4-methoxybenzyl alcohol in water by TiO2 supported on titanium anodes. <i>Applied Catalysis B: Environmental</i> , 2013 , 132-133, 535-542	21.8	31
46	Photocatalytic Selective Oxidation of 5-(Hydroxymethyl)-2-furaldehyde to 2,5-Furandicarbaldehyde in Water by Using Anatase, Rutile, and Brookite TiO2 Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 456-461	8.3	73
45	Two-Dimensional Modeling of an Externally Irradiated Slurry Photoreactor. <i>International Journal of Chemical Reactor Engineering</i> , 2013 , 11, 675-685	1.2	7
44	Overview on oxidation mechanisms of organic compounds by TiO2 in heterogeneous photocatalysis. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2012 , 13, 224-24	.5 ^{16.4}	219
43	Selective oxidation of phenol and benzoic acid in water via home-prepared TiO2 photocatalysts: Distribution of hydroxylation products. <i>Applied Catalysis A: General</i> , 2012 , 441-442, 79-89	5.1	28
42	Enhancing selectivity in photocatalytic formation of p-anisaldehyde in aqueous suspension under solar light irradiation via TiO2 N-doping. <i>New Journal of Chemistry</i> , 2012 , 36, 1762	3.6	25
41	Synthesis of vanillin in water by TiO2 photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2012 , 111-112, 555-561	21.8	68
40	A new class of heterogeneous Pd catalysts for synthetic organic chemistry. <i>Catalysis Science and Technology</i> , 2011 , 1, 736	5.5	57
39	Titania photocatalysts for selective oxidations in water. <i>ChemSusChem</i> , 2011 , 4, 1431-8	8.3	85
38	Kinetics of 4-Methoxybenzyl Alcohol Oxidation in Aqueous Solution in a Fixed Bed Photocatalytic Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 6699-6708	3.9	27
37	TiO2-Based Photocatalysis for Organic Synthesis. <i>Nanostructure Science and Technology</i> , 2010 , 623-645	0.9	9
36	Solar hydrogen: fuel of the near future. <i>Energy and Environmental Science</i> , 2010 , 3, 279	35.4	107
35	Advances in selective conversions by heterogeneous photocatalysis. <i>Chemical Communications</i> , 2010 , 46, 7074-89	5.8	322
34	BIPV: merging the photovoltaic with the construction industry. <i>Progress in Photovoltaics: Research and Applications</i> , 2010 , 18, 61-72	6.8	87

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33	On form dictating function: shape and structural effects in silica-based functional materials. <i>Chemical Record</i> , 2010 , 10, 17-28	6.6	8
32	Determination of Photoadsorption Capacity of Polychrystalline TiO2 Catalyst in Irradiated Slurry. <i>Advances in Chemical Engineering</i> , 2009 , 36, 1-35	0.6	19
31	Graphite-supported TiO2 for 4-nitrophenol degradation in a photoelectrocatalytic reactor. <i>Chemical Engineering Journal</i> , 2009 , 155, 339-346	14.7	43
30	A quantitative method of photoadsorption determination for irradiated catalyst in liquid s olid system. <i>Catalysis Today</i> , 2009 , 143, 189-194	5.3	9
29	Selective photocatalytic oxidation of 4-substituted aromatic alcohols in water with rutile TiO2 prepared at room temperature. <i>Green Chemistry</i> , 2009 , 11, 510	10	158
28	Nanochemistry aspects of titania in dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2009 , 2, 838	35.4	71
27	Self-assembled titaniaBilicaBepiolite based nanocomposites for water decontamination. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2070		35
26	Home-prepared anatase, rutile, and brookite TiO(2) for selective photocatalytic oxidation of 4-methoxybenzyl alcohol in water: reactivity and ATR-FTIR study. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 663-9	4.2	60
25	NanoMORALs [Metal nanoparticles doped with organic molecules. <i>Canadian Journal of Chemistry</i> , 2009 , 87, 673-677	0.9	9
24	Silica-based hybrid coatings. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3116		88
23	TiO2/ORMOSIL Thin Films Doped with Phthalocyanine Dyes: New Photocatalytic Devices Activated by Solar Light. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 2667-2670	3.8	27
22	Enhanced Mechanical Properties in Organofluorosilica Thin Films. <i>Journal of Nanomaterials</i> , 2008 , 2008, 1-5	3.2	2
21	2008,		69
20	Environmentally Friendly Photocatalytic Oxidation of Aromatic Alcohol to Aldehyde in Aqueous Suspension of Brookite TiO2. <i>Catalysis Letters</i> , 2008 , 126, 58-62	2.8	76
19	Oxidation of aromatic alcohols in irradiated aqueous suspensions of commercial and home-prepared rutile TiO(2): a selectivity study. <i>Chemistry - A European Journal</i> , 2008 , 14, 4640-6	4.8	112
18	Flexible solar cells. <i>ChemSusChem</i> , 2008 , 1, 880-91	8.3	224
17	Photocatalytic oxidation of aromatic alcohols to aldehydes in aqueous suspension of home-prepared titanium dioxide. <i>Applied Catalysis A: General</i> , 2008 , 349, 182-188	5.1	70
16	Photocatalytic oxidation of aromatic alcohols to aldehydes in aqueous suspension of home prepared titanium dioxide: 2. Intrinsic and surface features of catalysts. <i>Applied Catalysis A: General</i> , 2008 , 349, 189-197	5.1	60

15	Nanostructured rutile TiO2 for selective photocatalytic oxidation of aromatic alcohols to aldehydes in water. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1568-9	16.4	399
14	The chemical effects of molecular sol-gel entrapment. <i>Chemical Society Reviews</i> , 2007 , 36, 932-40	58.5	46
13	Optical Properties of TiO2 Suspensions: Influence of pH and Powder Concentration on Mean Particle Size. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 7620-7626	3.9	33
12	Photocatalysis: a promising route for 21st century organic chemistry. <i>Chemical Communications</i> , 2007 , 3425-37	5.8	562
11	Photocatalytic Selective Oxidation of 4-Methoxybenzyl Alcohol to Aldehyde in Aqueous Suspension of Home-Prepared Titanium Dioxide Catalyst. <i>Advanced Synthesis and Catalysis</i> , 2007 , 349, 964-970	5.6	166
10	Photocatalytic oxidation of nitrobenzene and phenylamine: Pathways and kinetics. <i>AICHE Journal</i> , 2007 , 53, 961-968	3.6	29
9	Selectivity of hydroxyl radical in the partial oxidation of aromatic compounds in heterogeneous photocatalysis. <i>Catalysis Today</i> , 2007 , 122, 118-127	5.3	113
8	Structural insight on organosilica electrodes for waste-free alcohol oxidations. <i>Catalysis Letters</i> , 2007 , 114, 55-58	2.8	5
7	Selective Photocatalytic Oxidation of 4-Methoxybenzyl Alcohol to p-Anisaldehyde in Organic-Free Water in a Continuous Annular Fixed Bed Reactor. <i>International Journal of Chemical Reactor Engineering</i> , 2007 , 5,	1.2	11
6	Waste-Free Electrochemical Oxidation of Alcohols in Water. <i>Advanced Synthesis and Catalysis</i> , 2006 , 348, 2033-2037	5.6	39
5	Influence of the substituent on selective photocatalytic oxidation of aromatic compounds in aqueous TiO2 suspensions. <i>Chemical Communications</i> , 2006 , 1012-4	5.8	76
4	ORMOSIL thin films: tuning mechanical properties via a nanochemistry approach. <i>Langmuir</i> , 2006 , 22, 11158-62	4	19
3	One-pot electrocatalytic oxidation of glycerol to DHA. <i>Tetrahedron Letters</i> , 2006 , 47, 6993-6995	2	96
2	Design of Metal D ielectric Multilayer Coatings for Energy-Efficient Building Glazing. <i>Energy Technology</i> ,2100776	3.5	
-1	Advanced Protection Against Marine Riofouling Using Solar Light		7