

Giovanni Palmisano

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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 papers	5,189 citations	37 h-index	70 g-index
132 ext. papers	5,855 ext. citations	7.9 avg, IF	5.88 L-index

#	Paper	IF	Citations
122	Photocatalysis: a promising route for 21st century organic chemistry. <i>Chemical Communications</i> , 2007 , 3425-37	5.8	562
121	Nanostructured rutile TiO ₂ 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
120	Advances in selective conversions by heterogeneous photocatalysis. <i>Chemical Communications</i> , 2010 , 46, 7074-89	5.8	322
119	Flexible solar cells. <i>ChemSusChem</i> , 2008 , 1, 880-91	8.3	224
118	Overview on oxidation mechanisms of organic compounds by TiO ₂ in heterogeneous photocatalysis. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2012 , 13, 224-245	16.4	219
117	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
116	Selective photocatalytic oxidation of 4-substituted aromatic alcohols in water with rutile TiO ₂ prepared at room temperature. <i>Green Chemistry</i> , 2009 , 11, 510	10	158
115	Metal-organic frameworks for photocatalytic CO ₂ reduction under visible radiation: A review of strategies and applications. <i>Catalysis Today</i> , 2020 , 340, 209-224	5.3	128
114	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
113	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
112	Solar hydrogen: fuel of the near future. <i>Energy and Environmental Science</i> , 2010 , 3, 279	35.4	107
111	One-pot electrocatalytic oxidation of glycerol to DHA. <i>Tetrahedron Letters</i> , 2006 , 47, 6993-6995	2	96
110	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
109	Silica-based hybrid coatings. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3116		88
108	BIPV: merging the photovoltaic with the construction industry. <i>Progress in Photovoltaics: Research and Applications</i> , 2010 , 18, 61-72	6.8	87
107	Titania photocatalysts for selective oxidations in water. <i>ChemSusChem</i> , 2011 , 4, 1431-8	8.3	85
106	Environmentally Friendly Photocatalytic Oxidation of Aromatic Alcohol to Aldehyde in Aqueous Suspension of Brookite TiO ₂ . <i>Catalysis Letters</i> , 2008 , 126, 58-62	2.8	76

105	Influence of the substituent on selective photocatalytic oxidation of aromatic compounds in aqueous TiO ₂ suspensions. <i>Chemical Communications</i> , 2006 , 1012-4	5.8	76
104	Photocatalytic Selective Oxidation of 5-(Hydroxymethyl)-2-furaldehyde to 2,5-Furandicarbaldehyde in Water by Using Anatase, Rutile, and Brookite TiO ₂ Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 456-461	8.3	73
103	Nanochemistry aspects of titania in dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2009 , 2, 838	35.4	71
102	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
101	2008 ,		69
100	Synthesis of vanillin in water by TiO ₂ photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2012 , 111-112, 555-561	21.8	68
99	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
98	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, 66-71	9.3	63
97	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
96	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
95	A new class of heterogeneous Pd catalysts for synthetic organic chemistry. <i>Catalysis Science and Technology</i> , 2011 , 1, 736	5.5	57
94	The chemical effects of molecular sol-gel entrapment. <i>Chemical Society Reviews</i> , 2007 , 36, 932-40	58.5	46
93	Synthesis and Surface Modification of TiO ₂ -Based Photocatalysts for the Conversion of CO ₂ . <i>Catalysts</i> , 2020 , 10, 227	4	44
92	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
91	Graphite-supported TiO ₂ for 4-nitrophenol degradation in a photoelectrocatalytic reactor. <i>Chemical Engineering Journal</i> , 2009 , 155, 339-346	14.7	43
90	Selective photocatalytic oxidation of aromatic alcohols in solar-irradiated aqueous suspensions of Pt, Au, Pd and Ag loaded TiO ₂ catalysts. <i>Catalysis Today</i> , 2017 , 281, 53-59	5.3	42
89	A review of material aspects in developing direct Z-scheme photocatalysts. <i>Materials Today</i> , 2021 , 47, 75-107	21.8	42
88	Multilayer thin film structures for multifunctional glass: Self-cleaning, antireflective and energy-saving properties. <i>Applied Energy</i> , 2020 , 264, 114697	10.7	40

87	Photocatalytic green synthesis of piperonal in aqueous TiO ₂ suspension. <i>Applied Catalysis B: Environmental</i> , 2014 , 144, 607-613	21.8	39
86	Waste-Free Electrochemical Oxidation of Alcohols in Water. <i>Advanced Synthesis and Catalysis</i> , 2006 , 348, 2033-2037	5.6	39
85	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
84	Micro-mesoporous N-doped brookite-rutile TiO ₂ as efficient catalysts for water remediation under UV-free visible LED radiation. <i>Journal of Catalysis</i> , 2017 , 346, 109-116	7.3	36
83	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
82	Self-assembled titania/silica/epiolite based nanocomposites for water decontamination. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2070		35
81	Overview on microfluidic reactors in photocatalysis: Applications of graphene derivatives. <i>Catalysis Today</i> , 2018 , 315, 79-92	5.3	34
80	Optical Properties of TiO ₂ Suspensions: Influence of pH and Powder Concentration on Mean Particle Size. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 7620-7626	3.9	33
79	Heterogeneous photocatalysis: guidelines on experimental setup, catalyst characterization, interpretation, and assessment of reactivity. <i>Catalysis Reviews - Science and Engineering</i> , 2019 , 61, 163-213	12.6	33
78	Sol-gel entrapped visible light photocatalysts for selective conversions. <i>RSC Advances</i> , 2014 , 4, 18341-18346	3.7	32
77	Photoelectrocatalytic selective oxidation of 4-methoxybenzyl alcohol in water by TiO ₂ supported on titanium anodes. <i>Applied Catalysis B: Environmental</i> , 2013 , 132-133, 535-542	21.8	31
76	E-beam evaporated TiO ₂ and Cu-TiO ₂ 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
75	Photocatalytic oxidation of nitrobenzene and phenylamine: Pathways and kinetics. <i>AIChE Journal</i> , 2007 , 53, 961-968	3.6	29
74	Advances in anti-scale magnetic water treatment. <i>Environmental Science: Water Research and Technology</i> , 2015 , 1, 408-425	4.2	28
73	Selective oxidation of phenol and benzoic acid in water via home-prepared TiO ₂ photocatalysts: Distribution of hydroxylation products. <i>Applied Catalysis A: General</i> , 2012 , 441-442, 79-89	5.1	28
72	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
71	TiO ₂ /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
70	Visible-light driven oxidation of gaseous aliphatic alcohols to the corresponding carbonyls via TiO ₂ sensitized by a perylene derivative. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 11135-41	5.1	26

69	Enhancing selectivity in photocatalytic formation of p-anisaldehyde in aqueous suspension under solar light irradiation via TiO ₂ N-doping. <i>New Journal of Chemistry</i> , 2012 , 36, 1762	3.6	25
68	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
67	Citrate-stabilized gold nanoparticles hinder fibrillogenesis of a pathological variant of Emicroglobulin. <i>Nanoscale</i> , 2017 , 9, 3941-3951	7.7	22
66	(Photo)catalyst Characterization Techniques 2019 , 87-152		20
65	Determination of Photoadsorption Capacity of Polychrystalline TiO ₂ Catalyst in Irradiated Slurry. <i>Advances in Chemical Engineering</i> , 2009 , 36, 1-35	0.6	19
64	ORMOSIL thin films: tuning mechanical properties via a nanochemistry approach. <i>Langmuir</i> , 2006 , 22, 11158-62	4	19
63	Influence of fluorine on the synthesis of anatase TiO ₂ for photocatalytic partial oxidation: are exposed facets the main actors?. <i>Catalysis Science and Technology</i> , 2018 , 8, 1606-1620	5.5	18
62	Photoelectrochemical activity of electrospun WO ₃ /NiWO ₄ nanofibers under visible light irradiation. <i>Journal of Materials Science</i> , 2018 , 53, 2208-2220	4.3	17
61	N-TiO ₂ /Cu-TiO ₂ double-layer films: Impact of stacking order on photocatalytic properties. <i>Journal of Catalysis</i> , 2017 , 353, 116-122	7.3	17
60	Validation of a two-dimensional modeling of an externally irradiated slurry photoreactor. <i>Chemical Engineering Journal</i> , 2015 , 262, 490-498	14.7	16
59	Highly stable defective TiO _{2-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
58	Nanostructured anatase TiO ₂ densified at high pressure as advanced visible light photocatalysts. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 1685-93	4.2	15
57	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
56	Relating Photoelectrochemistry and Wettability of Sputtered Cu- and N-Doped TiO ₂ Thin Films via an Integrated Approach. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12369-12376	3.8	15
55	Current and future perspectives on catalytic-based integrated carbon capture and utilization. <i>Science of the Total Environment</i> , 2021 , 790, 148081	10.2	14
54	Nanoflower-Like Bi ₂ WO ₆ 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
53	Integrated Nano- and Macroscale Investigation of Photoinduced Hydrophilicity in TiO Thin Films. <i>Langmuir</i> , 2016 , 32, 11813-11818	4	12
52	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

51	Growing N-doped multiphase TiO ₂ nanocomposites on reduced graphene oxide: Characterization and activity under low energy visible radiation. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 5091-5098	6.8	10
50	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
49	Enhanced photoelectrochemical performance of atomic layer deposited HF-doped ZnO. <i>Surface and Coatings Technology</i> , 2020 , 385, 125352	4.4	10
48	Photoactivated Fe(III)/Fe(II)/WO ₃ /Pd fuel cell for electricity generation using synthetic and real effluents under visible light. <i>Renewable Energy</i> , 2020 , 147, 1070-1081	8.1	10
47	TiO ₂ -Based Photocatalysis for Organic Synthesis. <i>Nanostructure Science and Technology</i> , 2010 , 623-645	0.9	9
46	A quantitative method of photoadsorption determination for irradiated catalyst in liquid-solid system. <i>Catalysis Today</i> , 2009 , 143, 189-194	5.3	9
45	NanoMORALs [Metal nanoparticles doped with organic molecules. <i>Canadian Journal of Chemistry</i> , 2009 , 87, 673-677	0.9	9
44	Differences between bulk and surface electronic structure of doped TiO ₂ with soft-elements (C, N and S). <i>Materials Chemistry and Physics</i> , 2018 , 208, 281-288	4.4	8
43	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
42	On form dictating function: shape and structural effects in silica-based functional materials. <i>Chemical Record</i> , 2010 , 10, 17-28	6.6	8
41	Heterogeneous Photocatalysis and Catalysis: An Overview of Their Distinctive Features 2019 , 1-24		7
40	Two-Dimensional Modeling of an Externally Irradiated Slurry Photoreactor. <i>International Journal of Chemical Reactor Engineering</i> , 2013 , 11, 675-685	1.2	7
39	Modelling of a recirculating photocatalytic microreactor implementing mesoporous N-TiO ₂ modified with graphene. <i>Chemical Engineering Journal</i> , 2020 , 391, 123574	14.7	7
38	Three-dimensional CFD modelling of a photocatalytic parallel-channel microreactor. <i>Chemical Engineering Science</i> , 2021 , 229, 116051	4.4	7
37	A review of recent and emerging antimicrobial nanomaterials in wastewater treatment applications. <i>Chemosphere</i> , 2021 , 278, 130440	8.4	7
36	Unexpectedly ambivalent O ₂ role in the autocatalytic photooxidation of 2-methoxybenzyl alcohol in water. <i>Journal of Molecular Catalysis A</i> , 2015 , 403, 37-42		6
35	Hydrogen and Propane Production From Butyric Acid Photoreforming Over Pt-TiO ₂ . <i>Frontiers in Chemistry</i> , 2019 , 7, 563	5	6
34	Water microbial disinfection via supported nAg/Kaolin in a fixed-bed reactor configuration. <i>Applied Clay Science</i> , 2020 , 184, 105387	5.2	6

33	Hydrogen production upon UV-light irradiation of Cu/TiO ₂ photocatalyst in the presence of alkanol-amines. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 26701-26715	6.7	6
32	3D printed photocatalytic feed spacers functionalized with FeOOH nanorods inducing pollutant degradation and membrane cleaning capabilities in water treatment. <i>Applied Catalysis B: Environmental</i> , 2021 , 300, 120318	21.8	6
31	Sputtered vs. sol-gel TiO ₂ -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
30	Unveiling the role of bisulfide in the photocatalytic splitting of H ₂ S in aqueous solutions. <i>Applied Catalysis B: Environmental</i> , 2020 , 270, 118886	21.8	6
29	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, 2567-2578	5.6	6
28	Overview and challenges of the photolytic and photocatalytic splitting of H ₂ S. <i>Catalysis Today</i> , 2021 , 380, 125-137	5.3	6
27	Combined photocatalytic properties and energy efficiency via multifunctional glass. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 102980	6.8	5
26	Silica-Based Sol-Gel Coatings: A Critical Perspective from a Practical Viewpoint 2016 , 149-159		5
25	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	14.7	5
24	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
23	Structural insight on organosilica electrodes for waste-free alcohol oxidations. <i>Catalysis Letters</i> , 2007 , 114, 55-58	2.8	5
22	Alkaline treatment as a means to boost the activity of TiO ₂ in selective photocatalytic processes. <i>Catalysis Science and Technology</i> , 2020 , 10, 5000-5012	5.5	5
21	Towards the Broad Utilization of Gold Nanoparticles Entrapped in Organosilica. <i>ChemCatChem</i> , 2017 , 9, 1322-1328	5.2	4
20	Tuning the selectivity to aldehyde via pH regulation in the photocatalytic oxidation of 4-methoxybenzyl alcohol and vanillyl alcohol by TiO ₂ catalysts. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105308	6.8	4
19	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
18	Enhanced Mechanical Properties in Organofluorosilica Thin Films. <i>Journal of Nanomaterials</i> , 2008 , 2008, 1-5	3.2	2
17	On the selectivity of butyric acid photoreforming over Au/TiO ₂ and Pt/TiO ₂ by UV and visible radiation: A combined experimental and theoretical study. <i>Applied Catalysis A: General</i> , 2021 , 624, 118321	5.1	2
16	Sol-Gel for Environmentally Green Products 2015 , 1055-1070		1

15	Computational modeling of green hydrogen generation from photocatalytic H ₂ S splitting: Overview and perspectives. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2021 , 49, 100456	16.4	1
14	Advanced Protection Against Marine Biofouling Using Solar Light		1
13	Photocatalytic activity of neat and polymer-modified bitumen. <i>Applied Materials Today</i> , 2020 , 21, 100795	5.6	1
12	Topologically non-trivial metal-organic assemblies inhibit α -microglobulin amyloidogenesis. <i>Cell Reports Physical Science</i> , 2021 , 100477	6.1	1
11	Techno-Economic Evaluation of Photocatalytic H ₂ S Splitting. <i>Energy Technology</i> , 2021 , 9, 2100163	3.5	1
10	Photocatalytic Degradation of 2-propanol Over TiO ₂ -based Thin Films in a Simulated Pilot Microreactor. <i>Journal of Photocatalysis</i> , 2021 , 2, 97-104	0.8	1
9	Selective photocatalytic oxidation of 3-pyridinemethanol on platinized acid/base modified TiO ₂ . <i>Catalysis Science and Technology</i> , 2021 , 11, 4549-4559	5.5	1
8	Techno-Economic Evaluation of Photocatalytic H ₂ S Splitting. <i>Energy Technology</i> , 2021 , 9, 2170082	3.5	0
7	Design of a Microfluidic Photocatalytic Reactor for Removal of Volatile Organic Components: Process Simulation and Techno-Economic Assessment.. <i>ACS Omega</i> , 2022 , 7, 8306-8313	3.9	0
6	Graphene-based hybrid photocatalysts: a promising route toward high-efficiency photocatalytic water remediation 2020 , 325-359		
5	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	
4	Characterization techniques 2022 , 243-314		
3	Adsorption models, surface reaction, and catalyst architectures 2022 , 63-99		
2	Green heterogeneous catalysis 2022 , 193-242		
1	Design of Metal-Dielectric Multilayer Coatings for Energy-Efficient Building Glazing. <i>Energy Technology</i> , 2021 , 9, 2100776	3.5	