

Marcello Marelli

List of Publications by Year in descending order

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79
docs citations

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times ranked

7925
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Nature and Location of Defects on Bandgap Narrowing in Black TiO ₂ Nanoparticles. <i>Journal of the American Chemical Society</i> , 2012, 134, 7600-7603.	6.6	1,464
2	Broadband Hot-Electron Collection for Solar Water Splitting with Plasmonic Titanium Nitride. <i>Advanced Optical Materials</i> , 2017, 5, 1601031.	3.6	248
3	Pt and Au/TiO ₂ photocatalysts for methanol reforming: Role of metal nanoparticles in tuning charge trapping properties and photoefficiency. <i>Applied Catalysis B: Environmental</i> , 2013, 130-131, 239-248.	10.8	219
4	Î±-Fe ₂ O ₃ /NiOOH: An Effective Heterostructure for Photoelectrochemical Water Oxidation. <i>ACS Catalysis</i> , 2015, 5, 5292-5300.	5.5	219
5	A Pd/CeO ₂ Anode Catalyst for High-Performance Platinum-Free Anion Exchange Membrane Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6004-6007.	7.2	199
6	Highly active nanostructured palladium-ceria electrocatalysts for the hydrogen oxidation reaction in alkaline medium. <i>Nano Energy</i> , 2017, 33, 293-305.	8.2	147
7	Bimetallic Au-Pt/TiO ₂ photocatalysts active under UV-A and simulated sunlight for H ₂ production from ethanol. <i>Green Chemistry</i> , 2012, 14, 330-333.	4.6	104
8	H ₂ Production by Renewables Photoreforming on Pt-Au/TiO ₂ Catalysts Activated by Reduction. <i>ChemSusChem</i> , 2012, 5, 1800-1811.	3.6	102
9	New generation biofuels: Î³-valerolactone into valeric esters in one pot. <i>RSC Advances</i> , 2013, 3, 1302-1306.	1.7	92
10	Controlling the Surface Energetics and Kinetics of Hematite Photoanodes Through Few Atomic Layers of NiO. <i>ACS Catalysis</i> , 2016, 6, 3619-3628.	5.5	68
11	Probing Long-Lived Plasmonic-Generated Charges in TiO ₂ /Au by High-Resolution X-ray Absorption Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5413-5416.	7.2	67
12	Hierarchical Hematite Nanoplatelets for Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 11997-12004.	4.0	65
13	Electrochemical Milling and Faceting: Size Reduction and Catalytic Activation of Palladium Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8500-8504.	7.2	63
14	Influence of reaction parameters on the activity of ruthenium based catalysts for glycerol steam reforming. <i>Applied Catalysis B: Environmental</i> , 2012, 121-122, 40-49.	10.8	63
15	Unravelling the properties of supported copper oxide: can the particle size induce acidic behaviour?. <i>Dalton Transactions</i> , 2013, 42, 1319-1328.	1.6	58
16	Palladium-Ceria Catalysts with Enhanced Alkaline Hydrogen Oxidation Activity for Anion Exchange Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 4999-5008.	2.5	56
17	Chronic toxicity effects of ZnSO ₄ and ZnO nanoparticles in <i>Daphnia magna</i> . <i>Environmental Research</i> , 2017, 152, 128-140.	3.7	54
18	Hot Electron Collection on Brookite Nanorods Lateral Facets for Plasmon-Enhanced Water Oxidation. <i>ACS Catalysis</i> , 2017, 7, 1270-1278.	5.5	53

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19	Step-by-Step Growth of HKUST-1 on Functionalized TiO ₂ Surface: An Efficient Material for CO ₂ Capture and Solar Photoreduction. <i>Catalysts</i> , 2018, 8, 353.	1.6	52
20	Role of soluble zinc in ZnO nanoparticle cytotoxicity in <i>Daphnia magna</i> : A morphological approach. <i>Environmental Research</i> , 2016, 148, 376-385.	3.7	51
21	Effective Targeting of DC-SIGN by Î±-Fucosylamide Functionalized Gold Nanoparticles. <i>Bioconjugate Chemistry</i> , 2014, 25, 2244-2251.	1.8	50
22	Influence of TiO ₂ electronic structure and strong metal-support interaction on plasmonic Au photocatalytic oxidations. <i>Catalysis Science and Technology</i> , 2016, 6, 3220-3229.	2.1	48
23	A Pd/CeO ₂ Anode Catalyst for High-Performance Platinum-Free Anion Exchange Membrane Fuel Cells. <i>Angewandte Chemie</i> , 2016, 128, 6108-6111.	1.6	47
24	A detailed investigation of MnO ₂ nanorods to be grown onto activated carbon. High efficiency towards aqueous methyl orange adsorption/degradation. <i>Applied Surface Science</i> , 2019, 472, 118-126.	3.1	47
25	The critical role of intragap states in the energy transfer from gold nanoparticles to TiO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4864-4869.	1.3	41
26	High-performance of bare and Ti-doped Î±-MnO ₂ nanoparticles in catalyzing the Oxygen Reduction Reaction. <i>Journal of Power Sources</i> , 2016, 325, 116-128.	4.0	40
27	Nanostructured Fe-Ag electrocatalysts for the oxygen reduction reaction in alkaline media. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13337.	5.2	33
28	Hybrid Au/CuO Nanoparticles: Effect of Structural Features for Selective Benzyl Alcohol Oxidation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2864-2871.	1.5	31
29	Ultrafine palladium nanoparticles immobilized into poly(4-vinylpyridine)-based porous monolith for continuous-flow Mizoroki-Heck reaction. <i>Journal of Molecular Catalysis A</i> , 2016, 414, 55-61.	4.8	30
30	Influence of surface coating on the intracellular behaviour of gold nanoparticles: a fluorescence correlation spectroscopy study. <i>Nanoscale</i> , 2017, 9, 14730-14739.	2.8	30
31	Biochar Nanoparticles over TiO ₂ Nanotube Arrays: A Green Co-Catalyst to Boost the Photocatalytic Degradation of Organic Pollutants. <i>Catalysts</i> , 2021, 11, 1048.	1.6	27
32	Three-Dimensional Reconstruction, by TEM Tomography, of the Ultrastructural Modifications Occurring in <i>Cucumis sativus</i> L. Mitochondria under Fe Deficiency. <i>PLoS ONE</i> , 2015, 10, e0129141.	1.1	26
33	Shaped-controlled silicon-doped hematite nanostructures for enhanced PEC water splitting. <i>Catalysis Today</i> , 2019, 328, 43-49.	2.2	24
34	Size controlled copper nanoparticles hosted in mesoporous silica matrix: Preparation and characterization. <i>Applied Catalysis B: Environmental</i> , 2012, 126, 161-171.	10.8	22
35	Electro-spun Co ₃ O ₄ anode material for Na-ion rechargeable batteries. <i>Solid State Ionics</i> , 2017, 309, 41-47.	1.3	22
36	A supported Pd-Cu/Al ₂ O ₃ membrane from solvated metal atoms for hydrogen separation/purification. <i>Fuel Processing Technology</i> , 2019, 195, 106141.	3.7	22

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37	Hydrogen Production by Glycerol Steam Reforming with Ru-based Catalysts: A Study on Sn Doping. Chemical Vapor Deposition, 2010, 16, 305-310.	1.4	21
38	Tailored copper nanoparticles in ordered mesoporous KIT-6 silica: Preparation and application as catalysts in integrated system for NO removal with products of methanol decomposition. Applied Catalysis A: General, 2013, 464-465, 243-252.	2.2	20
39	TiO ₂ Nanotubes Arrays Loaded with Ligand-Free Au Nanoparticles: Enhancement in Photocatalytic Activity. ACS Applied Materials & Interfaces, 2016, 8, 31051-31058.	4.0	20
40	Are Electrospun Carbon/Metal Oxide Composite Fibers Relevant Electrode Materials for Li-Ion Batteries?. Journal of the Electrochemical Society, 2016, 163, A2930-A2937.	1.3	19
41	Synthesis of Water Dispersible and Catalytically Active Gold-Decorated Cobalt Ferrite Nanoparticles. Langmuir, 2016, 32, 7117-7126.	1.6	19
42	The Influence of Carbonaceous Matrices and Electrocatalytic MnO ₂ Nanopowders on Lithium-Air Battery Performances. Nanomaterials, 2016, 6, 10.	1.9	18
43	Microfluidic Synthesis of Hybrid TiO ₂ -Anisotropic Gold Nanoparticles with Visible and Near-Infrared Activity. ACS Applied Materials & Interfaces, 2020, 12, 38522-38529.	4.0	18
44	Supported Tris-Triazole Ligands for Batch and Continuous-Flow Copper-Catalyzed Huisgen 1,3-Dipolar Cycloaddition Reactions. Catalysts, 2020, 10, 434.	1.6	18
45	Carbonate pseudotachylytes: evidence for seismic faulting along carbonate faults. Terra Nova, 2011, 23, 187-194.	0.9	17
46	Coprecipitation versus chemical vapour deposition to prepare Rh/Ni bimetallic catalysts. Applied Catalysis B: Environmental, 2015, 179, 150-159.	10.8	16
47	Reverse type I core - CuI /shell - CuO: A versatile heterostructure for photoelectrochemical applications. Electrochimica Acta, 2018, 266, 441-451.	2.6	15
48	Gelatin-Based Hydrogels through Homobifunctional Triazolinediones Targeting Tyrosine Residues. Molecules, 2019, 24, 589.	1.7	15
49	Synergy between Nickel Nanoparticles and N-Enriched Carbon Nanotubes Enhances Alkaline Hydrogen Oxidation and Evolution Activity. ACS Applied Nano Materials, 2021, 4, 3586-3596.	2.4	14
50	Gold-Coated Superparamagnetic Nanoparticles for Single Methyl Discrimination in DNA Aptamers. International Journal of Molecular Sciences, 2015, 16, 27625-27639.	1.8	13
51	Photoelectrocatalytic oxidation of As(III) over hematite photoanodes: A sensible indicator of the presence of highly reactive surface sites. Electrochimica Acta, 2018, 292, 828-837.	2.6	13
52	Better Together: Ilmenite/Hematite Junctions for Photoelectrochemical Water Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 47435-47446.	4.0	13
53	A Strategy for Multivalent Presentation of Carba Analogues from <i>N. meningitidis</i> A Capsular Polysaccharide. European Journal of Organic Chemistry, 2014, 2014, 5915-5924.	1.2	10
54	Zn- vs Bi-based oxides for o-toluidine photocatalytic treatment under solar light. Environmental Science and Pollution Research, 2017, 24, 8287-8296.	2.7	10

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55	In-situ anatase phase stabilization of titania photocatalyst by sintering in presence of Zr ⁴⁺ organic salts. <i>Applied Surface Science</i> , 2015, 347, 883-890.	3.1	9
56	Synthesis of Nanocrystalline TiO ₂ Embedded in a Carbonaceous Matrix from TiF ₄ and <i>d</i> -Fructose. <i>Inorganic Chemistry</i> , 2016, 55, 1816-1820.	1.9	8
57	Effect of Ti- or Si-doping on nanostructure and photo-electro-chemical activity of electro-spun iron oxide fibres. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 28070-28081.	3.8	8
58	Passive Sampling of Gaseous Elemental Mercury Based on a Composite TiO ₂ NP/AuNP Layer. <i>Nanomaterials</i> , 2018, 8, 798.	1.9	8
59	Some insight on the structure/activity relationship of metal nanoparticles in Cu/SiO ₂ catalysts. <i>Chinese Journal of Catalysis</i> , 2019, 40, 1788-1794.	6.9	8
60	A convenient preparation of La ₂ CuO ₄ from molecular precursors. <i>Polyhedron</i> , 2017, 123, 33-38.	1.0	7
61	Metal vapor synthesis of ultrasmall Pd nanoparticles functionalized with N-heterocyclic carbenes. <i>Dalton Transactions</i> , 2018, 47, 12647-12651.	1.6	7
62	Photoelectrochemical Behavior of Electrophoretically Deposited Hematite Thin Films Modified with Ti(IV). <i>Molecules</i> , 2016, 21, 942.	1.7	6
63	Photoinduced Porcine Gelatin Cross-Linking by Homobi- and Homotrifunctional Tetrazoles. <i>Gels</i> , 2021, 7, 124.	2.1	6
64	A green solvent diverts the hydrogenation of ϵ -valerolactone to 1,4-pentandiol over Cu/SiO ₂ . <i>Molecular Catalysis</i> , 2021, 516, 111936.	1.0	6
65	The Role of Support Hydrophobicity in the Selective Hydrogenation of Enones and Unsaturated Sulfones over Cu/SiO ₂ Catalysts. <i>Catalysts</i> , 2020, 10, 515.	1.6	5
66	Control of copper particles deposition in mesoporous SBA-15 silica by modified CVD method. <i>Inorganica Chimica Acta</i> , 2014, 423, 145-151.	1.2	4
67	Electron Small Polaron and Magnetic Interactions Direct Anisotropic Growth of Silicon-Doped Hematite Nanocrystals. <i>Crystal Growth and Design</i> , 2020, 20, 4719-4730.	1.4	4
68	Gold nanoparticles onto cerium oxycarbonate as highly efficient catalyst for aerobic allyl alcohol oxidation. <i>Catalysis Communications</i> , 2020, 140, 105989.	1.6	4
69	Molecular cluster route for the facile synthesis of a stable and active Pt nanoparticle catalyst. <i>New Journal of Chemistry</i> , 2021, 45, 11292-11303.	1.4	4
70	High-throughput spatial resolved tests over planar model catalyst libraries: A novel reactor approach. <i>Catalysis Today</i> , 2009, 147, S170-S175.	2.2	3
71	Characteristics and Performances of a Nanostructured Material for Passive Samplers of Gaseous Hg. <i>Sensors</i> , 2020, 20, 6021.	2.1	3
72	Improving the quality of ⁶³ Cu/ ⁶⁵ Cu ratio determination by ICP-QMS through a careful evaluation of instrumental performances. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 893.	1.6	2

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73	Evaluation of the Two-Dimensional Performances of Low Activity Planar Catalysts: Development and Validation of a True Scanning Reactor. ACS Combinatorial Science, 2016, 18, 15-21.	3.8	2
74	Quantitative Determination of the Surface Distribution of Supported Metal Nanoparticles: A Laser Ablation-ICP-MS Based Approach. Chemosensors, 2021, 9, 77.	1.8	2
75	Broadband hot electron generation for solar energy conversion with plasmonic titanium nitride. , 2017, , .		1
76	Tuning the Cu/SiO2 wettability features for bio-derived platform molecules valorization. Molecular Catalysis, 2022, 528, 112462.	1.0	1
77	Development of a Scanning Chemical Vapour Deposition Reactor for the realization of patterned and non-patterned depositions: a preliminary overview. Thin Solid Films, 2021, 717, 138446.	0.8	0