

Cristina Della Pina

List of Publications by Year in descending order

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99
papers

6,868
citations

109321

35
h-index

58581

82
g-index

105
all docs

105
docs citations

105
times ranked

8211
citing authors

#	ARTICLE	IF	CITATIONS
1	From Glycerol to Value-Added Products. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4434-4440.	13.8	1,443
2	The Catalytic Activity of "Naked" Gold Particles. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5812-5815.	13.8	744
3	Selective oxidation using gold. <i>Chemical Society Reviews</i> , 2008, 37, 2077.	38.1	644
4	Update on selective oxidation using gold. <i>Chemical Society Reviews</i> , 2012, 41, 350-369.	38.1	318
5	Understanding the glycerol market. <i>European Journal of Lipid Science and Technology</i> , 2014, 116, 1432-1439.	1.5	302
6	Highly selective oxidation of benzyl alcohol to benzaldehyde catalyzed by bimetallic gold-copper catalyst. <i>Journal of Catalysis</i> , 2008, 260, 384-386.	6.2	256
7	Aerobic Oxidation of Glucose with Gold Catalyst: Hydrogen Peroxide as Intermediate and Reagent. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 313-316.	4.3	220
8	Aerobic oxidation of glucose. <i>Applied Catalysis A: General</i> , 2006, 297, 1-7.	4.3	172
9	Industrial Applications of Gold Catalysis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14210-14217.	13.8	161
10	Mono- and bimetallic catalysts for glucose oxidation. <i>Journal of Molecular Catalysis A</i> , 2006, 251, 89-92.	4.8	126
11	Oxidation of alcohols and sugars using Au/C catalysts. <i>Applied Catalysis A: General</i> , 2005, 291, 204-209.	4.3	118
12	One-pot electrocatalytic oxidation of glycerol to DHA. <i>Tetrahedron Letters</i> , 2006, 47, 6993-6995.	1.4	118
13	Ulvan as novel reducing and stabilizing agent from renewable algal biomass: Application to green synthesis of silver nanoparticles. <i>Carbohydrate Polymers</i> , 2019, 203, 310-321.	10.2	103
14	A green approach to chemical building blocks. The case of 3-hydroxypropanoic acid. <i>Green Chemistry</i> , 2011, 13, 1624.	9.0	97
15	Recent advances and challenges of emerging solar-driven steam and the contribution of photocatalytic effect. <i>Chemical Engineering Journal</i> , 2022, 431, 134024.	12.7	85
16	Alkaline glucose oxidation on nanostructured gold electrodes. <i>Gold Bulletin</i> , 2010, 43, 57-64.	2.7	84
17	Degradation of emerging organic pollutants in wastewater effluents by electrochemical photocatalysis on nanostructured TiO ₂ meshes. <i>Water Research</i> , 2019, 164, 114920.	11.3	83
18	Recent advances in the conversion of bioglycerol into value-added products. <i>European Journal of Lipid Science and Technology</i> , 2009, 111, 788-799.	1.5	81

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19	Is the biochemical route always advantageous? The case of glucose oxidation. <i>Journal of Catalysis</i> , 2006, 244, 122-125.	6.2	76
20	Zn ²⁺ removal from the aqueous environment using a polydopamine/hydroxyapatite/Fe ₃ O ₄ magnetic composite under ultrasonic waves. <i>RSC Advances</i> , 2021, 11, 27309-27321.	3.6	70
21	New routes to Vitamin K3. <i>Catalysis Today</i> , 2007, 121, 58-64.	4.4	62
22	A review of advances in multifunctional XTiO ₃ perovskite-type oxides as piezo-photocatalysts for environmental remediation and energy production. <i>Journal of Hazardous Materials</i> , 2022, 421, 126792.	12.4	62
23	Conductive materials by metal catalyzed polymerization. <i>Catalysis Today</i> , 2011, 160, 11-27.	4.4	58
24	A green route to conducting polyaniline by copper catalysis. <i>Journal of Catalysis</i> , 2009, 267, 93-96.	6.2	55
25	Emerging pollutant mixture mineralization by TiO ₂ photocatalysts. The role of the water medium. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 60-66.	2.9	55
26	Aerobic oxidation of glucose I. Enzymatic catalysis. <i>Journal of Catalysis</i> , 2004, 228, 282-287.	6.2	52
27	SWOT analysis of photocatalytic materials towards large scale environmental remediation. <i>Current Opinion in Chemical Engineering</i> , 2021, 33, 100696.	7.8	51
28	Gold-catalyzed oxidation in organic synthesis: a promise kept. <i>Catalysis Science and Technology</i> , 2011, 1, 1564.	4.1	44
29	Biomaterialized Anisotropic Gold Microplate-Macrophage Interactions Reveal Frustrated Phagocytosis-like Phenomenon: A Novel Paclitaxel Drug Delivery Vehicle. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14679-14689.	8.0	44
30	Degradation of Carbamazepine by Photo(electro)catalysis on Nanostructured TiO ₂ Meshes: Transformation Products and Reaction Pathways. <i>Catalysts</i> , 2020, 10, 169.	3.5	42
31	Interaction of l-cysteine with naked gold nanoparticles supported on HOPG: a high resolution XPS investigation. <i>Nanoscale</i> , 2012, 4, 7727.	5.6	41
32	Facile synthesis of polyaniline using gold catalyst. <i>Journal of Catalysis</i> , 2008, 259, 1-4.	6.2	39
33	Selective deactivation of gold catalyst. <i>Journal of Catalysis</i> , 2009, 263, 92-97.	6.2	39
34	Development of high sensitive polyaniline based piezoresistive films by conventional and green chemistry approaches. <i>Sensors and Actuators A: Physical</i> , 2014, 220, 13-21.	4.1	37
35	Sonophotocatalytic degradation of sodium diclofenac using low power ultrasound and micro sized TiO ₂ . <i>Ultrasonics Sonochemistry</i> , 2020, 67, 105123.	8.2	35
36	Selective oxidation of tertiary amines on gold catalysts. <i>Topics in Catalysis</i> , 2007, 44, 325-329.	2.8	34

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37	Comparison of the photoactivity of several semiconductor oxides in floating aerogel and suspension systems towards the reduction of Cr(VI) under visible light. <i>Chemosphere</i> , 2021, 281, 130839.	8.2	34
38	Insights on the photocatalytic degradation processes supported by TiO ₂ /WO ₃ systems. The case of ethanol and tetracycline. <i>Catalysis Today</i> , 2019, 328, 210-215.	4.4	32
39	Concurrent role of metal (Sn, Zn) and N species in enhancing the photocatalytic activity of TiO ₂ under solar light. <i>Catalysis Today</i> , 2018, 313, 40-46.	4.4	31
40	Polyaniline (PANI): an innovative support for sampling and removal of VOCs in air matrices. <i>Journal of Hazardous Materials</i> , 2018, 344, 308-315.	12.4	31
41	A green approach to magnetically-hard electrically-conducting polyaniline/CoFe ₂ O ₄ nanocomposites. <i>Composites Science and Technology</i> , 2015, 110, 138-144.	7.8	30
42	Catalytic performance of gold catalysts in the total oxidation of VOCs. <i>Gold Bulletin</i> , 2007, 40, 67-72.	2.7	29
43	Gold-catalysed synthesis of polypyrrole. <i>Gold Bulletin</i> , 2009, 42, 27-33.	2.7	26
44	Electrospinning of Polyaniline: Effect of Different Raw Sources. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 4744-4751.	0.9	26
45	Photocatalytic and Oxidative Synthetic Pathways for Highly Efficient PANI-TiO ₂ Nanocomposites as Organic and Inorganic Pollutant Sorbents. <i>Nanomaterials</i> , 2020, 10, 441.	4.1	26
46	Piezo-enhanced photocatalytic diclofenac mineralization over ZnO. <i>Ultrasonics Sonochemistry</i> , 2021, 75, 105615.	8.2	26
47	Oxidation of Allyl Alcohol in the Presence of a Gold Catalyst: A Route to 3- α -Hydroxypropionic Acid. <i>ChemSusChem</i> , 2009, 2, 57-58.	6.8	23
48	The role played by different TiO ₂ features on the photocatalytic degradation of paracetamol. <i>Applied Surface Science</i> , 2017, 424, 198-205.	6.1	22
49	Electromechanical properties of polyanilines prepared by two different approaches and their applicability in force measurements. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 395-401.	7.8	21
50	Metamaterial architecture from a self-shaping carnivorous plant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18777-18782.	7.1	21
51	Greening the Construction Industry: Enhancing the Performance of Cements by Adding Bioglycerol. <i>ChemSusChem</i> , 2008, 1, 809-812.	6.8	20
52	Enhanced performance of the catalytic conversion of allyl alcohol to 3-hydroxypropionic acid using bimetallic gold catalysts. <i>Faraday Discussions</i> , 2011, 152, 367.	3.2	20
53	One-pot synthesis of polyaniline/Fe ₃ O ₄ nanocomposites with magnetic and conductive behaviour. Catalytic effect of Fe ₃ O ₄ nanoparticles. <i>Synthetic Metals</i> , 2012, 162, 2250-2258.	3.9	20
54	Oxidative Inactivation of SARS-CoV-2 on Photoactive AgNPs@TiO ₂ Ceramic Tiles. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8836.	4.1	20

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55	Extra-Small Gold Nanospheres Decorated With a Thiol Functionalized Biodegradable and Biocompatible Linear Polyamidoamine as Nanovectors of Anticancer Molecules. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 132.	4.1	19
56	Catalysis with Silver: From Complexes and Nanoparticles to MORALs and Single-Atom Catalysts. <i>Catalysts</i> , 2020, 10, 1343.	3.5	18
57	Targeting the "Sweet Side" of Tumor with Glycan-Binding Molecules Conjugated-Nanoparticles: Implications in Cancer Therapy and Diagnosis. <i>Nanomaterials</i> , 2021, 11, 289.	4.1	18
58	Doped-polyaniline based sorbents for the simultaneous removal of heavy metals and dyes from water: Unravelling the role of synthesis method and doping agent. <i>Chemosphere</i> , 2022, 286, 131941.	8.2	18
59	Industrielle Anwendungen von Goldkatalysatoren. <i>Angewandte Chemie</i> , 2016, 128, 14420-14428.	2.0	17
60	Methionine supplementation stimulates mitochondrial respiration. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 1901-1913.	4.1	17
61	Triply green polyaniline: UV irradiation-induced synthesis of a highly porous PANI/TiO ₂ composite and its application in dye removal. <i>Chemical Communications</i> , 2018, 54, 10702-10705.	4.1	17
62	Advances in Polyaniline for Biomedical Applications. <i>Current Medicinal Chemistry</i> , 2022, 29, 329-357.	2.4	16
63	Effect of Au in Cs _{2.5} H _{1.5} PVMo ₁₁ O ₄₀ and Cs _{2.5} H _{1.5} PVMo ₁₁ O ₄₀ /Au/TiO ₂ catalysts in the gas phase oxidation of propylene. <i>Catalysis Today</i> , 2007, 122, 307-316.	4.4	15
64	Inkjet printed doped polyaniline: Navigating through physics and chemistry for the next generation devices. <i>Applied Surface Science</i> , 2018, 456, 246-258.	6.1	15
65	Ultrathin electrospun PANI nanofibers for neuronal tissue engineering. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	13
66	Pigmented Corn Varieties as Functional Ingredients for Gluten-Free Products. <i>Foods</i> , 2021, 10, 1770.	4.3	13
67	Gold Nanomaterials: From Preparation to Pharmaceutical Design and Application. <i>Current Pharmaceutical Design</i> , 2016, 22, 1485-1493.	1.9	13
68	Investigation of glycerol polymerization in the clinker grinding process. <i>Green Chemistry</i> , 2011, 13, 143-148.	9.0	11
69	Optimizing operating conditions and electrochemical characterization of glucose-gluconate alkaline fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 1273-1278.	7.8	11
70	Solar Light Photoactive Floating Polyaniline/TiO ₂ Composites for Water Remediation. <i>Nanomaterials</i> , 2021, 11, 3071.	4.1	10
71	Presence of perfluoroalkyl substances in Mediterranean sea and North Italian lake fish addressed to Italian consumer. <i>International Journal of Food Science and Technology</i> , 2022, 57, 1303-1316.	2.7	10
72	Polyanilines as New Sorbents for Hydrocarbons Removal from Aqueous Solutions. <i>Materials</i> , 2020, 13, 2161.	2.9	9

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73	Protective effect of <i>Vigna unguiculata</i> extract against aging and neurodegeneration. <i>Aging</i> , 2020, 12, 19785-19808.	3.1	9
74	Catalytic Transformation of Ethanol with Silicalite-1: Influence of Pretreatments and Conditions on Activity and Selectivity. <i>ChemCatChem</i> , 2010, 2, 1587-1593.	3.7	7
75	Polyaniline nanofibers: Towards pure electrospun PANI. , 2012, , .		7
76	Microwave characterization of magnetically hard and soft ferrite nanoparticles in K-band. <i>Journal of Applied Physics</i> , 2014, 116, 154306.	2.5	7
77	Experimental methods in chemical engineering: Mössbauer spectroscopy. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 2105-2114.	1.7	7
78	One-pot catalytic synthesis of higher aliphatic ketones. <i>Applied Catalysis A: General</i> , 2007, 321, 35-39.	4.3	6
79	One pot synthesis of thio-glycosides via aziridine opening reactions. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 233-247.	2.8	6
80	Effect of Salicylic Acid and 5-Sulfosalicylic Acid on UV-Vis Spectroscopic Characteristics, Morphology, and Contact Angles of Spin Coated Polyaniline and Poly(4-aminodiphenylaniline) Thin Films. <i>Journal of Spectroscopy</i> , 2015, 2015, 1-8.	1.3	5
81	Size-dependent catalytic effect of magnetite nanoparticles in the synthesis of tunable magnetic polyaniline nanocomposites. <i>Chemical Papers</i> , 2021, 75, 5057-5069.	2.2	5
82	Selective dehydrosulfurization of 3-mercaptopropionic acid to acrylic acid on silicalite catalyst. <i>Catalysis Communications</i> , 2010, 11, 456-459.	3.3	4
83	Clean Transformation of Ethanol to Useful Chemicals. The Behavior of a Gold-Modified Silicalite Catalyst. <i>Molecules</i> , 2016, 21, 379.	3.8	4
84	The versatility of gold: From heterogeneous catalysis to biomedicine. <i>Inorganica Chimica Acta</i> , 2022, 537, 120959.	2.4	4
85	Liquid Phase Oxidation of Organic Compounds by Supported Metal-Based Catalysts with a Focus on Gold. , 0, , 221-262.		3
86	Towards "Green" Smart Materials for Force and Strain Sensors: The Case of Polyaniline. <i>Key Engineering Materials</i> , 2015, 644, 157-162.	0.4	3
87	Nonabsorbable Iron(III) binding polymers: Synthesis and evaluation of the chelating properties. <i>Polymer Testing</i> , 2020, 90, 106693.	4.8	3
88	Plant nutrients recovery from agro-food wastewaters using microbial electrochemical technologies based on porous biocompatible materials. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107453.	6.7	3
89	Oxidation of Alcohols and Carbohydrates. , 2012, , 309-329.		2
90	Annealing effect on electromechanical behaviour of polyanilines organic acids-doped. <i>Sensors and Actuators A: Physical</i> , 2016, 252, 59-66.	4.1	2

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91	Advances in Poly (4-aminodiphenylaniline) Nanofibers Preparation by Electrospinning Technique. Journal of Nanoscience and Nanotechnology, 2016, 16, 5369-5377.	0.9	2
92	Gold Nanoparticles-catalyzed Oxidations in Organic Chemistry. , 0, , 427-455.		1
93	Gold Nanoparticles: From Preparation to Catalytic Evaluation. , 2008, , 253-262.		1
94	Gold-Based Catalysts. RSC Green Chemistry, 2014, , 133-154.	0.1	1
95	Bioglycerol: a multifunctional aid for the construction industry. Biofuels, Bioproducts and Biorefining, 2015, 9, 468-475.	3.7	1
96	Self-cleaning, photocatalytic films on aluminum plates for multi-pollutant air remediation: promoting adhesion and activity by SiO ₂ interlayers. Nanotechnology, 2021, 32, 475710.	2.6	1
97	Advanced Nanomaterials for Energy and Environmental Applications. Journal of Nanomaterials, 2015, 2015, 1-2.	2.7	0
98	A Journey into the Determination of Polyaniline Molecular Weight. Advanced Materials Science and Technology, 2021, 3, 8-21.	0.2	0
99	Development of an experimental test rig for the pyrolysis of plastic residues and waste tires. E3S Web of Conferences, 2021, 238, 01013.	0.5	0