Paolo Dolcet

List of Publications by Year in descending order

39 papers	952 citations	430874 18 h-index	454955 30 g-index
40 all docs	40 docs citations	40 times ranked	1605 citing authors

#	Article	IF	Citations
1	Tracking the formation, fate and consequence for catalytic activity of Pt single sites on CeO2. Nature Catalysis, 2020, 3, 824-833.	34.4	209
2	The Effect of Prereduction on the Performance of Pd/Al₂O₃ and Pd/CeO₂ Catalysts during Methane Oxidation. Industrial & Engineering Chemistry Research, 2019, 58, 12561-12570.	3.7	58
3	Pursuing the Crystallization of Mono- and Polymetallic Nanosized Crystalline Inorganic Compounds by Low-Temperature Wet-Chemistry and Colloidal Routes. Chemical Reviews, 2015, 115, 11449-11502.	47.7	55
4	Effects of graphite nano-particle additions on dry sliding behaviour of plasma-electrolytic-oxidation-treated EV31A magnesium alloy against steel in air. Wear, 2018, 404-405, 122-132.	3.1	50
5	Miniemulsions as chemical nanoreactors for the room temperature synthesis of inorganic crystalline nanostructures: ZnO colloids. Journal of Materials Chemistry, 2012, 22, 1620-1626.	6.7	40
6	Plasma electrolytic oxidation coating produced on 39NiCrMo3 steel. Surface and Coatings Technology, 2016, 307, 73-80.	4.8	33
7	Antibacterial effect of PEO coating with silver on AA7075. Materials Science and Engineering C, 2017, 75, 554-564.	7.3	32
8	Exploring wet chemistry approaches to ZnFe₂O₄ spinel ferrite nanoparticles with different inversion degrees: a comparative study. Inorganic Chemistry Frontiers, 2019, 6, 1527-1534.	6.0	32
9	Synergy of Miniemulsion and Solvothermal Conditions for the Low-Temperature Crystallization of Magnetic Nanostructured Transition-Metal Ferrites. Chemistry of Materials, 2017, 29, 985-997.	6.7	30
10	Synthesis and full characterization of the phase-pure pyrochlore Ce2Zr2O7 and the Î²-Ce2Zr2O8 phases. Applied Catalysis B: Environmental, 2016, 197, 23-34.	20.2	28
11	Room temperature crystallization of highly luminescent lanthanide-doped CaF₂ in nanosized droplets: first example of the synthesis of metal halogenide in miniemulsion with effective doping and size control. RSC Advances, 2015, 5, 16302-16310.	3.6	27
12	Very fast crystallisation of MFe2O4 spinel ferrites (M = Co, Mn, Ni, Zn) under low temperature hydrothermal conditions: a time-resolved structural investigation. Green Chemistry, 2018, 20, 2257-2268.	9.0	25
13	Engineering of oxoclusters-reinforced polymeric materials with application as heterogeneous oxydesulfurization catalysts. Applied Catalysis B: Environmental, 2016, 182, 636-644.	20.2	22
14	Inorganic chemistry in a nanoreactor: Au/TiO2 nanocomposites by photolysis of a single-source precursor in miniemulsion. Nanoscale, 2013, 5, 10534.	5.6	21
15	Solâ€“gel processes at the droplet interface: hydrous zirconia and hafnia nanocapsules by interfacial inorganic polycondensation. Journal of Materials Chemistry, 2012, 22, 5622.	6.7	20
16	In Situ Study of the Oxygen-Induced Transformation of Pyrochlore Ce₂Zr₂O_{7+x} to the Î²-Ce₂Zr₂O₈ Phase. Chemistry of Materials, 2017, 29, 9218-9226.	6.7	20
17	The Influence of the Gold Particle Size on the Catalytic Oxidation of 5-(Hydroxymethyl)furfural. Catalysts, 2020, 10, 342.	3.5	20
18	Inorganic Chemistry in a Nanoreactor: Doped ZnO Nanostructures by Miniemulsion. European Journal of Inorganic Chemistry, 2013, 2013, 2291-2300.	2.0	19

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19	Surface Noble Metal Concentration on Ceria as a Key Descriptor for Efficient Catalytic CO Oxidation. ACS Catalysis, 2022, 12, 2473-2486.	11.2	19
20	The role of the synthetic pathways on properties of Ag2S nanoparticles for photothermal applications. Applied Surface Science, 2020, 514, 145856.	6.1	17
21	Synthesis and Physicochemical Characterization of Ce_{1â^'x}Gd_xO_{2â^'Î´}: A Case Study on the Impact of the Oxygen Storage Capacity on the HCl Oxidation Reaction. ChemCatChem, 2015, 7, 3738-3747.	3.7	16
22	Crystallization at Nanodroplet Interfaces in Emulsion Systems: A Soft-Template Strategy for Preparing Porous and Hollow Nanoparticles. Langmuir, 2016, 32, 13116-13123.	3.5	15
23	Pursuing the stabilisation of crystalline nanostructured magnetic manganites through a green low temperature hydrothermal synthesis. Journal of Materials Chemistry C, 2017, 5, 3359-3371.	5.5	15
24	Thermal Evolution of ZnS Nanostructures: Effect of Oxidation Phenomena on Structural Features and Photocatalytical Performances. Inorganic Chemistry, 2018, 57, 13104-13114.	4.0	15
25	An Effective Two-Emulsion Approach to the Synthesis of Doped ZnS Crystalline Nanostructures. European Journal of Inorganic Chemistry, 2015, 2015, 706-714.	2.0	13
26	In-depth mesocrystal formation analysis of microwave-assisted synthesis of LiMnPO4 nanostructures in organic solution. CrystEngComm, 2016, 18, 316-327.	2.6	13
27	Microfluidic Crystallization of Surfactant-Free Doped Zinc Sulfide Nanoparticles for Optical Bioimaging Applications. ACS Applied Materials & Interfaces, 2020, 12, 44074-44087.	8.0	13
28	Tin(IV) Oxide Coatings from Hybrid Organotin/Polymer Nanoparticles. ACS Applied Materials & Interfaces, 2011, 3, 4292-4298.	8.0	11
29	Simple, common but functional: biocompatible and luminescent rare-earth doped magnesium and calcium hydroxides from miniemulsion. Journal of Materials Chemistry B, 2014, 2, 6639-6651.	5.8	10
30	Hierarchically Organized Silicaâ€“Titania Monoliths Prepared under Purely Aqueous Conditions. Chemistry - A European Journal, 2014, 20, 17409-17419.	3.3	9
31	Room-Temperature Crystallization of CuS Nanostructures for Photothermal Applications through a Nanoreactor Approach. European Journal of Inorganic Chemistry, 2017, 2017, 2745-2754.	2.0	8
32	Very low temperature wet-chemistry colloidal routes for mono- and polymetallic nanosized crystalline inorganic compounds. Journal of Sol-Gel Science and Technology, 2015, 73, 591-604.	2.4	7
33	Ligand-free ZnS nanoparticles: as easy and green as it gets. Chemical Communications, 2020, 56, 8707-8710.	4.1	7
34	Transition Metal Manganites Prepared by a Green and Low-Temperature Wet Chemistry Route, Investigated by XPS. Surface Science Spectra, 2015, 22, 1-20.	1.3	6
35	Insights into the Structural Dynamics of Pt/CeO2 Single-Site Catalysts during CO Oxidation. Catalysts, 2021, 11, 617.	3.5	6
36	Smart and Covalently Crossâ€Linked: Hybrid Shape Memory Materials Reinforced through Covalent Bonds by Zirconium Oxoclusters. ChemPlusChem, 2016, 81, 338-350.	2.8	4

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37	Easy and Green Route towards Nanostructured ZnO as an Active Sensing Material with Unexpected H₂S Dosimeterâ€Type Behaviour. European Journal of Inorganic Chemistry, 2019, 2019, 837-846.	2.0	4
38	Design Principles and Insights into the Liquid-Phase Exfoliation of Alpha-MoO₃ for the Production of Colloidal 2D Nano-inks in Green Solvents. Journal of Physical Chemistry C, 2022, 126, 404-415.	3.1	2
39	Tuning the Activity of a Hybrid Polymerâ€“Oxocluster Catalyst: A Compositionâ€”Selectivity Correlation. Polymers, 2021, 13, 3268.	4.5	1