Vladimiro Dal Santo

List of Publications by Year
in descending order

96 papers	5,111 citations	101496 36 h-index	88593 70 g-index
99 all docs	99 docs citations	99 times ranked	8433 citing authors

#	Article	IF	Citations
1	Flame Pyrolysis Synthesis of Mixed Oxides for Glycerol Steam Reforming. Materials, 2021, 14, 652.	1.3	4
2	Tailored amorphization of graphitic carbon nitride triggers superior photocatalytic Câ€“C coupling towards the synthesis of perfluoroalkyl derivatives. Materials Chemistry Frontiers, 2021, 5, 7267-7275.	3.2	21
3	Discovering the role of substrate in aldehyde hydrogenation. Journal of Catalysis, 2021, 399, 162-169.	3.1	9
4	Discovering indium as hydrogen production booster for a Cu/SiO2 catalyst in steam reforming of methanol. Applied Catalysis B: Environmental, 2021, 297, 120398.	10.8	26
5	Microfluidic Synthesis of Hybrid TiO₂-Anisotropic Gold Nanoparticles with Visible and Near-Infrared Activity. ACS Applied Materials & Interfaces, 2020, 12, 38522-38529.	4.0	18
6	On demand production of ethers or alcohols from furfural and HMF by selecting the composition of a Zr/Si catalyst. Catalysis Science and Technology, 2020, 10, 7502-7511.	2.1	20
7	Gold nanoparticles onto cerium oxycarbonate as highly efficient catalyst for aerobic allyl alcohol oxidation. Catalysis Communications, 2020, 140, 105989.	1.6	4
8	Electron-poor copper nanoparticles over amorphous zirconia-silica as all-in-one catalytic sites for the methanol steam reforming. Applied Catalysis B: Environmental, 2019, 258, 118016.	10.8	39
9	Second Youth of a Metal-Free Dehydrogenation Catalyst: When Î³-Al₂O₃ Meets Coke Under Oxygen- and Steam-Free Conditions. ACS Catalysis, 2019, 9, 9474-9484.	5.5	11
10	Hierarchical TiN Nanostructured Thin Film Electrode for Highly Stable PEM Fuel Cells. ACS Applied Energy Materials, 2019, 2, 1911-1922.	2.5	14
11	Iron-montmorillonite clays as active sorbents for the decontamination of hazardous chemical warfare agents. Dalton Transactions, 2018, 47, 2939-2948.	1.6	16
12	Layered Nanoâ€TiO₂ Based Treatments for the Maintenance of Natural Stones in Historical Architecture. Angewandte Chemie - International Edition, 2018, 57, 7360-7363.	7.2	25
13	Titanium Dioxide Photocatalysis. Catalysts, 2018, 8, 591.	1.6	23
14	Catalytic Steam Reforming of Acetic Acid: Latest Advances in Catalysts Development and Mechanism Elucidation. Current Catalysis, 2018, 7, 89-98.	0.5	4
15	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
16	Ethyl lactate from dihydroxyacetone by a montmorillonite-supported Pt(II) diphosphane complex. Journal of Catalysis, 2017, 350, 133-140.	3.1	14
17	Unconventional Pd@Sulfonated Silica Monoliths Catalysts for Selective Partial Hydrogenation Reactions under Continuous Flow. ChemCatChem, 2017, 9, 3245-3258.	1.8	22
18	Effect of Ti- or Si-doping on nanostructure and photo-electro-chemical activity of electro-spun iron oxide fibres. International Journal of Hydrogen Energy, 2017, 42, 28070-28081.	3.8	8

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19	Investigation of the promoting effect of Mn on a Pt/C catalyst for the steam and aqueous phase reforming of glycerol. Journal of Catalysis, 2017, 349, 75-83.	3.1	40
20	Hot Electron Collection on Brookite Nanorods Lateral Facets for Plasmon-Enhanced Water Oxidation. ACS Catalysis, 2017, 7, 1270-1278.	5.5	53
21	Catalyst Shelf Life: Its Effect on Nitrogen-Doped Carbon Nanotubes. Journal of Physical Chemistry C, 2017, 121, 16415-16422.	1.5	3
22	Cooperative action of BrÃ¸nsted and Lewis acid sites of niobium phosphate catalysts for cellobiose conversion in water. Applied Catalysis B: Environmental, 2016, 193, 93-102.	10.8	77
23	TiO₂ Nanotubes Arrays Loaded with Ligand-Free Au Nanoparticles: Enhancement in Photocatalytic Activity. ACS Applied Materials & Interfaces, 2016, 8, 31051-31058.	4.0	20
24	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
25	Influence of TiO₂electronic structure and strong metalâ€“support interaction on plasmonic Au photocatalytic oxidations. Catalysis Science and Technology, 2016, 6, 3220-3229.	2.1	48
26	Well-formed, size-controlled ruthenium nanoparticles active and stable for acetic acid steam reforming. Applied Catalysis B: Environmental, 2016, 181, 599-611.	10.8	37
27	PdH_x Entrapped in a Covalent Triazine Framework Modulates Selectivity in Glycerol Oxidation. ChemCatChem, 2015, 7, 2149-2154.	1.8	30
28	Surfactant-controlled composition and crystal structure of manganese(II) sulfide nanocrystals prepared by solvothermal synthesis. Beilstein Journal of Nanotechnology, 2015, 6, 2319-2329.	1.5	8
29	Coprecipitation versus chemical vapour deposition to prepare Rh/Ni bimetallic catalysts. Applied Catalysis B: Environmental, 2015, 179, 150-159.	10.8	16
30	Nanostructured copper-zirconia composites as catalysts for methanol decomposition. Applied Catalysis B: Environmental, 2015, 165, 599-610.	10.8	38
31	The critical role of intragap states in the energy transfer from gold nanoparticles to TiO₂. Physical Chemistry Chemical Physics, 2015, 17, 4864-4869.	1.3	41
32	Probing Longâ€Lived Plasmonicâ€Generated Charges in TiO₂/Au by Highâ€Resolution Xâ€ray Absorption Spectroscopy. Angewandte Chemie - International Edition, 2015, 54, 5413-5416.	7.2	67
33	Î±-Fe₂O₃/NiOOH: An Effective Heterostructure for Photoelectrochemical Water Oxidation. ACS Catalysis, 2015, 5, 5292-5300.	5.5	219
34	Effect of preparation procedure on the formation of nanostructured ceriaâ€“zirconia mixed oxide catalysts for ethyl acetate oxidation: Homogeneous precipitation with urea vs template-assisted hydrothermal synthesis. Applied Catalysis A: General, 2015, 502, 418-432.	2.2	56
35	In-situ anatase phase stabilization of titania photocatalyst by sintering in presence of Zr4+ organic salts. Applied Surface Science, 2015, 347, 883-890.	3.1	9
36	Continuous flow asymmetric cyclopropanation reactions using Cu(<scp>i</scp>) complexes of Pc-L* ligands supported on silica as catalysts with carbon dioxide as a carrier. Green Chemistry, 2014, 16, 3202-3209.	4.6	35

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37	Hierarchical Hematite Nanoplatelets for Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2014, 6, 11997-12004.	4.0	65
38	Control of copper particles deposition in mesoporous SBA-15 silica by modified CVD method. Inorganica Chimica Acta, 2014, 423, 145-151.	1.2	4
39	Anodic Stripping Tin Titration: A Method for the Voltammetric Determination of Platinum at Trace Levels. Analytical Chemistry, 2014, 86, 6654-6659.	3.2	2
40	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
41	Cluster-derived Irâ€“Sn/SiO2 catalysts for the catalytic dehydrogenation of propane: a spectroscopic study. Dalton Transactions, 2013, 42, 12714.	1.6	5
42	Nickel Catalysts Supported Over TiO₂, SiO₂ and ZrO₂ for the Steam Reforming of Glycerol. ChemCatChem, 2013, 5, 294-306.	1.8	79
43	Pt and Au/TiO2 photocatalysts for methanol reforming: Role of metal nanoparticles in tuning charge trapping properties and photoefficiency. Applied Catalysis B: Environmental, 2013, 130-131, 239-248.	10.8	219
44	Silica â€œSHBâ€•chiral Pc-L* copper complexes for halogen-free solvent cyclopropanation reactions. RSC Advances, 2013, 3, 22199.	1.7	14
45	Rational design of single-site heterogeneous catalysts: towards high chemo-, regio- and stereoselectivity. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 1904-1926.	1.0	40
46	Use of titanium-containing silica catalysts prepared by rapid and straightforward method in selective oxidations. Catalysis Today, 2012, 197, 170-177.	2.2	10
47	Bimetallic heterogeneous catalysts for hydrogen production. Catalysis Today, 2012, 197, 190-205.	2.2	173
48	Gold Nanoparticles Capped by a GC-Containing Peptide Functionalized with an RGD Motif for Integrin Targeting. Bioconjugate Chemistry, 2012, 23, 340-349.	1.8	41
49	Size controlled copper nanoparticles hosted in mesoporous silica matrix: Preparation and characterization. Applied Catalysis B: Environmental, 2012, 126, 161-171.	10.8	22
50	Bimetallic Auâ€“Pt/TiO₂photocatalysts active under UV-A and simulated sunlight for H₂production from ethanol. Green Chemistry, 2012, 14, 330-333.	4.6	104
51	Nanoparticle-Protein Conjugates for Nanomedicine Applications: Design and Engineering at the Nano-Bio Interface. Recent Patents on Nanomedicine, 2012, 2, 17-33.	0.5	3
52	Effect of Nature and Location of Defects on Bandgap Narrowing in Black TiO₂ Nanoparticles. Journal of the American Chemical Society, 2012, 134, 7600-7603.	6.6	1,464
53	H₂ Production by Renewables Photoreforming on Ptâ€“Au/TiO₂ Catalysts Activated by Reduction. ChemSusChem, 2012, 5, 1800-1811.	3.6	102
54	Dehydrogenation of cyclohexanol on copper containing catalysts: The role of the support and the preparation method. Catalysis Communications, 2012, 17, 150-153.	1.6	21

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55	Selective butadiene hydrogenation by Pd nanoparticles deposed onto nano-sized oxide supports by CVD of Pd-hexafluoroacetylacetonate. Inorganica Chimica Acta, 2012, 380, 216-222.	1.2	17
56	Optimization of the preparation procedure of cobalt modified silicas as catalysts in methanol decomposition. Applied Catalysis A: General, 2012, 417-418, 209-219.	2.2	25
57	Glycerol steam reforming for hydrogen production: Design of Ni supported catalysts. Applied Catalysis B: Environmental, 2012, 111-112, 225-232.	10.8	165
58	Influence of reaction parameters on the activity of ruthenium based catalysts for glycerol steam reforming. Applied Catalysis B: Environmental, 2012, 121-122, 40-49.	10.8	63
59	Nanoparticle-Protein Conjugates for Nanomedicine Applications: Design and Engineering at the Nano-Bio Interface. Recent Patents on Nanomedicine, 2012, 2, 17-33.	0.5	0
60	Electrochemically assisted deposition on TiO2scaffold for Tissue Engineering: an apatite bio-inspired crystallization pathway. Journal of Materials Chemistry, 2011, 21, 400-407.	6.7	13
61	Structure and catalytic activity of hosted in mesoporous silicas copper species: Effect of preparation procedure and support pore topology. Applied Catalysis A: General, 2011, 406, 13-21.	2.2	30
62	Single-site and nanosized Feâ€“Co electrocatalysts for oxygen reduction: Synthesis, characterization and catalytic performance. Journal of Power Sources, 2011, 196, 2519-2529.	4.0	99
63	The mechanism of surface doping in vanadyl pyrophosphate, catalyst for n-butane oxidation to maleic anhydride: The role of Au promoter. Catalysis Today, 2011, 169, 200-206.	2.2	28
64	Hydrogen Production by Glycerol Steam Reforming with Ruâ€based Catalysts: A Study on Sn Doping. Chemical Vapor Deposition, 2010, 16, 305-310.	1.4	21
65	Phagocytosis of Biocompatible Gold Nanoparticles. Langmuir, 2010, 26, 14799-14805.	1.6	55
66	Design and Use of Nanostructured Single-Site Heterogeneous Catalysts for the Selective Transformation of Fine Chemicals. Molecules, 2010, 15, 3829-3856.	1.7	60
67	Emerging strategies in sustainable fine-chemical synthesis: asymmetric catalysis by metal nanoparticles. Dalton Transactions, 2010, 39, 8391.	1.6	42
68	High-throughput spatial resolved tests over planar model catalyst libraries: A novel reactor approach. Catalysis Today, 2009, 147, S170-S175.	2.2	3
69	Tailored supported metal nanoparticles by CVD: an easy and efficient scale-up by a rotary bed OMCVD device. Journal of Materials Chemistry, 2009, 19, 9030.	6.7	10
70	Supported Rh catalysts for methane partial oxidation prepared by OM-CVD of Rh(acac)(CO)2. Applied Catalysis A: General, 2008, 346, 126-133.	2.2	30
71	Testing in annular micro-reactor and characterization of supported Rh nanoparticles for the catalytic partial oxidation of methane: Effect of the preparation procedure. Applied Catalysis B: Environmental, 2008, 83, 96-109.	10.8	41
72	Selective hydrogenation of 1,10-phenanthrolines by silica-supported palladium nanoparticles. Inorganica Chimica Acta, 2008, 361, 3677-3680.	1.2	13

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73	Benzene Hydrogenation by Silica-Supported Catalysts Made of Palladium Nanoparticles and Electrostatically Immobilized Rhodium Single Sites. Organometallics, 2008, 27, 2809-2824.	1.1	20
74	Gold nanoparticles capped by peptides. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 140, 187-194.	1.7	54
75	Effect of Au in Cs2.5H1.5PVMo11O40 and Cs2.5H1.5PVMo11O40/Au/TiO2 catalysts in the gas phase oxidation of propylene. Catalysis Today, 2007, 122, 307-316.	2.2	15
76	Hydrogenation of Arenes over Silica-Supported Catalysts That Combine a Grafted Rhodium Complex and Palladium Nanoparticles:â€‰Evidence for Substrate Activation on Rhsingle-siteâ¯Pdmetal Moieties. Journal of the American Chemical Society, 2006, 128, 7065-7076.	6.6	70
77	An operando DRIFTSâ€“MS study on model Ce0.5Zr0.5O2 redox catalyst: A critical evaluation of DRIFTS and MS data on CO abatement reaction. Catalysis Today, 2006, 113, 81-86.	2.2	37
78	DRIFTS study of surface reactivity to NO2 by zinc nanoparticle aggregates and zinc hollow nanofibers. Applied Surface Science, 2006, 253, 2899-2910.	3.1	16
79	Catalytic dehydrogenation of propane over cluster-derived Irâ€“Sn/SiO2 catalysts. Catalysis Letters, 2006, 112, 89-95.	1.4	26
80	Kinetic peculiarities of cis/trans methyl oleate formation during hydrogenation of methyl linoleate over Pd/MgO. Applied Catalysis A: General, 2005, 279, 99-107.	2.2	23
81	Fast transient infrared studies in material science: development of a novel low dead-volume, high temperature DRIFTS cell. Talanta, 2005, 66, 674-682.	2.9	43
82	On the mechanism of fast oxygen storage and release in ceria-zirconia model catalysts. Applied Catalysis B: Environmental, 2004, 52, 225-237.	10.8	145
83	NO_xAdsorption Study over Ptâ€“Ba/Alumina Catalysts: FT-IR and Reactivity Study. Topics in Catalysis, 2004, 30/31, 181-186.	1.3	61
84	Rejuvenating Old Computerized Spectrometric Instrumentation: Discussion of Two Case Histories. Annali Di Chimica, 2004, 94, 155-163.	0.6	0
85	Recycling asymmetric hydrogenation catalysts by their immobilisation onto ion-exchange resinsElectronic supplementary information (ESI) available: Experimental section, 31P{1H} HP NMR spectra, typical EDS surface area spectrum and ESEM images. See http://www.rsc.org/suppdata/dt/b4/b406179a/. Dalton Transactions, 2004, , 1783.	1.6	25
86	Hydrogenation of Arenes over Catalysts that Combine a Metal Phase and a Grafted Metal Complex: Role of the Single-Site Catalyst. Angewandte Chemie - International Edition, 2003, 42, 2636-2639.	7.2	37
87	Nanocomposite catalytic materials: synthesis, characterisation and reactivity of Pt/Csâ€“BEA zeolites. Inorganica Chimica Acta, 2003, 349, 227-238.	1.2	12
88	An organometallic route to mono and bimetallic Pt and Pt-Pd catalysts supported on magnesium oxide: thermoanalytical investigation and catalytic behavior in MCP conversion. Journal of Molecular Catalysis A, 2003, 204-205, 465-472.	4.8	10
89	Interaction of molecular hydrogen with three-way catalyst model of Pt/Ce0.6Zr0.4O2/Al2O3 type. Journal of Molecular Catalysis A, 2003, 204-205, 683-691.	4.8	31
90	A comparison between silica-immobilized ruthenium(II) single sites and silica-supported ruthenium nanoparticles in the catalytic hydrogenation ofÂmodel hetero- and polyaromatics contained in raw oil materials. Journal of Catalysis, 2003, 213, 47-62.	3.1	83

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91	Carbon tetrachloride hydrodechlorination with organometallics-based platinum and palladium catalysts on MgO. Journal of Molecular Catalysis A, 2002, 182-183, 157-166.	4.8	38
92	Immobilization of Optically Active Rhodium-Diphosphine Complexes on Porous Silica via Hydrogen Bonding. Advanced Synthesis and Catalysis, 2001, 343, 41-45.	2.1	62
93	Characterization of Pd/MgO Catalysts: Role of Organometallic Precursorâ€“Surface Interactions. Journal of Catalysis, 2001, 198, 296-308.	3.1	15
94	Immobilization of Optically Active Rhodium-Diphosphine Complexes on Porous Silica via Hydrogen Bonding. , 2001, 343, 41.		1
95	Preparation, Characterization, and Performance of the Supported Hydrogen-Bonded Ruthenium Catalyst [(sulphos)Ru(NCMe)3](OSO2CF3)/SiO2. Comparisons with Analogous Homogeneous and Aqueous-Biphase Catalytic Systems in the Hydrogenation of Benzylideneacetone and Benzonitrile. Organometallics, 2000, 19, 2433-2444.	1.1	82
96	Thermochemical mass-spectrometric investigation under reducing conditions of [Pd(acac)2] adsorbed on magnesium oxide. Thermochimica Acta, 1998, 317, 157-164.	1.2	12