# Vladimiro Dal Santo

List of Publications by Year
in descending order

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|---|---|---|---|
| 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 | Effect of Nature and Location of Defects on Bandgap Narrowing in Black TiO<sub>2</sub> Nanoparticles. Journal of the American Chemical Society, 2012, 134, 7600-7603. | 6.6 | 1,464 |
| 2 | 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 |
| 3 | Î±-Fe<sub>2</sub>O<sub>3</sub>/NiOOH: An Effective Heterostructure for Photoelectrochemical Water Oxidation. ACS Catalysis, 2015, 5, 5292-5300. | 5.5 | 219 |
| 4 | Bimetallic heterogeneous catalysts for hydrogen production. Catalysis Today, 2012, 197, 190-205. | 2.2 | 173 |
| 5 | Glycerol steam reforming for hydrogen production: Design of Ni supported catalysts. Applied Catalysis B: Environmental, 2012, 111-112, 225-232. | 10.8 | 165 |
| 6 | 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 |
| 7 | Bimetallic Auâ€“Pt/TiO<sub>2</sub>photocatalysts active under UV-A and simulated sunlight for H<sub>2</sub>production from ethanol. Green Chemistry, 2012, 14, 330-333. | 4.6 | 104 |
| 8 | H<sub>2</sub> Production by Renewables Photoreforming on Ptâ€“Au/TiO<sub>2</sub> Catalysts Activated by Reduction. ChemSusChem, 2012, 5, 1800-1811. | 3.6 | 102 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | Nickel Catalysts Supported Over TiO<sub>2</sub>, SiO<sub>2</sub> and ZrO<sub>2</sub> for the Steam Reforming of Glycerol. ChemCatChem, 2013, 5, 294-306. | 1.8 | 79 |
| 13 | 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 |
| 14 | 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 |
| 15 | Probing Longâ€Lived Plasmonicâ€Generated Charges in TiO<sub>2</sub>/Au by Highâ€Resolution Xâ€ray Absorption Spectroscopy. Angewandte Chemie - International Edition, 2015, 54, 5413-5416. | 7.2 | 67 |
| 16 | Hierarchical Hematite Nanoplatelets for Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2014, 6, 11997-12004. | 4.0 | 65 |
| 17 | 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 |
| 18 | Immobilization of Optically Active Rhodium-Diphosphine Complexes on Porous Silica via Hydrogen Bonding. Advanced Synthesis and Catalysis, 2001, 343, 41-45. | 2.1 | 62 |

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|---|---|---|---|
| 19 | NO<sub>x</sub>Adsorption Study over Ptâ€“Ba/Alumina Catalysts: FT-IR and Reactivity Study. Topics in Catalysis, 2004, 30/31, 181-186. | 1.3 | 61 |
| 20 | Design and Use of Nanostructured Single-Site Heterogeneous Catalysts for the Selective Transformation of Fine Chemicals. Molecules, 2010, 15, 3829-3856. | 1.7 | 60 |
| 21 | 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 |
| 22 | Phagocytosis of Biocompatible Gold Nanoparticles. Langmuir, 2010, 26, 14799-14805. | 1.6 | 55 |
| 23 | Gold nanoparticles capped by peptides. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 140, 187-194. | 1.7 | 54 |
| 24 | Hot Electron Collection on Brookite Nanorods Lateral Facets for Plasmon-Enhanced Water Oxidation. ACS Catalysis, 2017, 7, 1270-1278. | 5.5 | 53 |
| 25 | Influence of TiO<sub>2</sub>electronic structure and strong metalâ€“support interaction on plasmonic Au photocatalytic oxidations. Catalysis Science and Technology, 2016, 6, 3220-3229. | 2.1 | 48 |
| 26 | 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 |
| 27 | Emerging strategies in sustainable fine-chemical synthesis: asymmetric catalysis by metal nanoparticles. Dalton Transactions, 2010, 39, 8391. | 1.6 | 42 |
| 28 | 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 |
| 29 | 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 |
| 30 | The critical role of intragap states in the energy transfer from gold nanoparticles to TiO<sub>2</sub>. Physical Chemistry Chemical Physics, 2015, 17, 4864-4869. | 1.3 | 41 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | Nanostructured copper-zirconia composites as catalysts for methanol decomposition. Applied Catalysis B: Environmental, 2015, 165, 599-610. | 10.8 | 38 |
| 36 | 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 |

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| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | PdH<sub>x</sub> Entrapped in a Covalent Triazine Framework Modulates Selectivity in Glycerol Oxidation. ChemCatChem, 2015, 7, 2149-2154. | 1.8 | 30 |
| 44 | 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 |
| 45 | Catalytic dehydrogenation of propane over cluster-derived Irâ€“Sn/SiO2 catalysts. Catalysis Letters, 2006, 112, 89-95. | 1.4 | 26 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | Layered Nanoâ€TiO<sub>2</sub> Based Treatments for the Maintenance of Natural Stones in Historical Architecture. Angewandte Chemie - International Edition, 2018, 57, 7360-7363. | 7.2 | 25 |
| 50 | 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 |
| 51 | Titanium Dioxide Photocatalysis. Catalysts, 2018, 8, 591. | 1.6 | 23 |
| 52 | Size controlled copper nanoparticles hosted in mesoporous silica matrix: Preparation and characterization. Applied Catalysis B: Environmental, 2012, 126, 161-171. | 10.8 | 22 |
| 53 | Unconventional Pd@Sulfonated Silica Monoliths Catalysts for Selective Partial Hydrogenation Reactions under Continuous Flow. ChemCatChem, 2017, 9, 3245-3258. | 1.8 | 22 |
| 54 | 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 |

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| 55 | 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 |
| 56 | 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 |
| 57 | Benzene Hydrogenation by Silica-Supported Catalysts Made of Palladium Nanoparticles and Electrostatically Immobilized Rhodium Single Sites. Organometallics, 2008, 27, 2809-2824. | 1.1 | 20 |
| 58 | 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 |
| 59 | TiO<sub>2</sub> Nanotubes Arrays Loaded with Ligand-Free Au Nanoparticles: Enhancement in Photocatalytic Activity. ACS Applied Materials & Interfaces, 2016, 8, 31051-31058. | 4.0 | 20 |
| 60 | 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 |
| 61 | Microfluidic Synthesis of Hybrid TiO<sub>2</sub>-Anisotropic Gold Nanoparticles with Visible and Near-Infrared Activity. ACS Applied Materials & Interfaces, 2020, 12, 38522-38529. | 4.0 | 18 |
| 62 | 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 |
| 63 | 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 |
| 64 | Coprecipitation versus chemical vapour deposition to prepare Rh/Ni bimetallic catalysts. Applied Catalysis B: Environmental, 2015, 179, 150-159. | 10.8 | 16 |
| 65 | Iron-montmorillonite clays as active sorbents for the decontamination of hazardous chemical warfare agents. Dalton Transactions, 2018, 47, 2939-2948. | 1.6 | 16 |
| 66 | Characterization of Pd/MgO Catalysts: Role of Organometallic Precursorâ€“Surface Interactions. Journal of Catalysis, 2001, 198, 296-308. | 3.1 | 15 |
| 67 | 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 |
| 68 | Silica â€œSHBâ€•chiral Pc-L* copper complexes for halogen-free solvent cyclopropanation reactions. RSC Advances, 2013, 3, 22199. | 1.7 | 14 |
| 69 | Ethyl lactate from dihydroxyacetone by a montmorillonite-supported Pt(II) diphosphane complex. Journal of Catalysis, 2017, 350, 133-140. | 3.1 | 14 |
| 70 | Hierarchical TiN Nanostructured Thin Film Electrode for Highly Stable PEM Fuel Cells. ACS Applied Energy Materials, 2019, 2, 1911-1922. | 2.5 | 14 |
| 71 | Selective hydrogenation of 1,10-phenanthrolines by silica-supported palladium nanoparticles. Inorganica Chimica Acta, 2008, 361, 3677-3680. | 1.2 | 13 |
| 72 | 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 |

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| 73 | 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 |
| 74 | Thermochemical mass-spectrometric investigation under reducing conditions of [Pd(acac)2] adsorbed on magnesium oxide. Thermochimica Acta, 1998, 317, 157-164. | 1.2 | 12 |
| 75 | Nanocomposite catalytic materials: synthesis, characterisation and reactivity of Pt/Csâ€“BEA zeolites. Inorganica Chimica Acta, 2003, 349, 227-238. | 1.2 | 12 |
| 76 | Second Youth of a Metal-Free Dehydrogenation Catalyst: When Î³-Al<sub>2</sub>O<sub>3</sub> Meets Coke Under Oxygen- and Steam-Free Conditions. ACS Catalysis, 2019, 9, 9474-9484. | 5.5 | 11 |
| 77 | 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 |
| 78 | 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 |
| 79 | Use of titanium-containing silica catalysts prepared by rapid and straightforward method in selective oxidations. Catalysis Today, 2012, 197, 170-177. | 2.2 | 10 |
| 80 | 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 |
| 81 | Discovering the role of substrate in aldehyde hydrogenation. Journal of Catalysis, 2021, 399, 162-169. | 3.1 | 9 |
| 82 | 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 |
| 83 | 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 |
| 84 | Cluster-derived Irâ€“Sn/SiO2 catalysts for the catalytic dehydrogenation of propane: a spectroscopic study. Dalton Transactions, 2013, 42, 12714. | 1.6 | 5 |
| 85 | Control of copper particles deposition in mesoporous SBA-15 silica by modified CVD method. Inorganica Chimica Acta, 2014, 423, 145-151. | 1.2 | 4 |
| 86 | Catalytic Steam Reforming of Acetic Acid: Latest Advances in Catalysts Development and Mechanism Elucidation. Current Catalysis, 2018, 7, 89-98. | 0.5 | 4 |
| 87 | Gold nanoparticles onto cerium oxycarbonate as highly efficient catalyst for aerobic allyl alcohol oxidation. Catalysis Communications, 2020, 140, 105989. | 1.6 | 4 |
| 88 | Flame Pyrolysis Synthesis of Mixed Oxides for Glycerol Steam Reforming. Materials, 2021, 14, 652. | 1.3 | 4 |
| 89 | High-throughput spatial resolved tests over planar model catalyst libraries: A novel reactor approach. Catalysis Today, 2009, 147, S170-S175. | 2.2 | 3 |
| 90 | 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 |

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| 91 | Catalyst Shelf Life: Its Effect on Nitrogen-Doped Carbon Nanotubes. Journal of Physical Chemistry C, 2017, 121, 16415-16422. | 1.5 | 3 |
| 92 | Anodic Stripping Tin Titration: A Method for the Voltammetric Determination of Platinum at Trace Levels. Analytical Chemistry, 2014, 86, 6654-6659. | 3.2 | 2 |
| 93 | 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 |
| 94 | Immobilization of Optically Active Rhodium-Diphosphine Complexes on Porous Silica via Hydrogen Bonding. , 2001, 343, 41. | | 1 |
| 95 | Rejuvenating Old Computerized Spectrometric Instrumentation: Discussion of Two Case Histories. Annali Di Chimica, 2004, 94, 155-163. | 0.6 | 0 |
| 96 | 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 |