

Patrizia Canton

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7949234/publications.pdf>

Version: 2024-02-01

104
papers

3,657
citations

136940

32
h-index

149686

56
g-index

110
all docs

110
docs citations

110
times ranked

5465
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective oxidation of glycerol with oxygen using mono and bimetallic catalysts based on Au, Pd and Pt metals. <i>Catalysis Today</i> , 2005, 102-103, 203-212.	4.4	304
2	Double rare-earth nanothermometer in aqueous media: opening the third optical transparency window to temperature sensing. <i>Nanoscale</i> , 2017, 9, 3079-3085.	5.6	145
3	Effects of gold nanoparticles deposition on the photocatalytic activity of titanium dioxide under visible light. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7171.	2.8	126
4	Clusters of Poly(acrylates) and Silver Nanoparticles: Structure and Applications for Antimicrobial Fabrics. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11758-11766.	3.1	122
5	Consecutive hydrogenation of benzaldehyde over Pd catalysts. <i>Applied Catalysis A: General</i> , 2001, 219, 195-200.	4.3	109
6	Influence of Particle Size and Crystal Orientation on the Electrochemical Behavior of Carbon-Coated LiFePO ₄ . <i>Journal of Physical Chemistry C</i> , 2010, 114, 12598-12603.	3.1	108
7	Nucleation and crystallization behavior of glass-ceramic materials in the Li ₂ O-Al ₂ O ₃ -SiO ₂ system of interest for their transparency properties. <i>Journal of Non-Crystalline Solids</i> , 2001, 288, 127-139.	3.1	106
8	A Versatile Approach to the Synthesis of Functionalized Thiol-Protected Palladium Nanoparticles. <i>Chemistry of Materials</i> , 2011, 23, 3961-3969.	6.7	94
9	Pd/CO Average Chemisorption Stoichiometry in Highly Dispersed Supported Pd/Al ₂ O ₃ Catalysts. <i>Langmuir</i> , 2002, 18, 6530-6535.	3.5	93
10	Generation of Size-Controlled Pd ₀ Nanoclusters inside Nanoporous Domains of Gel-Type Resins: Diverse and Convergent Evidence That Supports a Strategy of Template-Controlled Synthesis. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 959-962.	13.8	92
11	Calcium hydroxide nanoparticles from solvothermal reaction for the deacidification of degraded waterlogged wood. <i>Journal of Colloid and Interface Science</i> , 2016, 473, 1-8.	9.4	81
12	Gold Nanoparticles Incarcerated in Nanoporous Syndiotactic Polystyrene Matrices as New and Efficient Catalysts for Alcohol Oxidations. <i>Chemistry - A European Journal</i> , 2012, 18, 709-715.	3.3	71
13	Hydrogen production through alcohol steam reforming on Cu/ZnO-based catalysts. <i>Applied Catalysis B: Environmental</i> , 2011, 101, 397-408.	20.2	69
14	Pd-Fe/SiO ₂ Catalysts in the Hydrogenation of 2,4-Dinitrotoluene. <i>Journal of Catalysis</i> , 1994, 150, 356-367.	6.2	64
15	Highly efficient and selective reduction of nitroarenes into anilines catalyzed by gold nanoparticles incarcerated in a nanoporous polymer matrix: Role of the polymeric support and insight into the reaction mechanism. <i>Journal of Catalysis</i> , 2016, 340, 30-40.	6.2	64
16	Nanostructural Features of Pd/C Catalysts Investigated by Physical Methods: A Reference for Chemisorption Analysis. <i>Langmuir</i> , 2000, 16, 4539-4546.	3.5	63
17	Upconverting Nanoparticle to Quantum Dot Förster Resonance Energy Transfer: Increasing the Efficiency through Donor Design. <i>ACS Photonics</i> , 2018, 5, 2261-2270.	6.6	63
18	Alumina-Promoted Sulfated Zirconia System: Structure and Microstructure Characterization. <i>Chemistry of Materials</i> , 2001, 13, 1634-1641.	6.7	57

#	ARTICLE	IF	CITATIONS
19	Wustite as a new precursor of industrial ammonia synthesis catalysts. <i>Applied Catalysis A: General</i> , 2003, 251, 121-129.	4.3	53
20	Formation and Controlled Growth of Bismuth Titanate Phases into Mesoporous Silica Nanoparticles: An Efficient Self-Sealing Nanosystem for UV Filtering in Cosmetic Formulation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1913-1921.	8.0	53
21	Quantitative Phase Analysis in Semicrystalline Materials Using the Rietveld Method. <i>Journal of Applied Crystallography</i> , 1998, 31, 78-82.	4.5	52
22	Optimization of bimetallic dry reforming catalysts by temperature programmed reaction. <i>Applied Catalysis A: General</i> , 2012, 439-440, 80-87.	4.3	52
23	Luminescence of Eu ³⁺ Activated CaF ₂ and SrF ₂ Nanoparticles: Effect of the Particle Size and Codoping with Alkaline Ions. <i>Crystal Growth and Design</i> , 2018, 18, 686-694.	3.0	52
24	Pd-Au and Pd-Pt catalysts for the direct synthesis of hydrogen peroxide in absence of selectivity enhancers. <i>Applied Catalysis A: General</i> , 2013, 468, 160-174.	4.3	47
25	TiO ₂ @mesoporous silica nanocomposites: cooperative effect in the photocatalytic degradation of dyes and drugs. <i>RSC Advances</i> , 2014, 4, 37826-37837.	3.6	47
26	Effect of the matrix in niobium-based aerogel catalysts for the selective oxidation of olefins with hydrogen peroxide. <i>Journal of Catalysis</i> , 2005, 229, 490-498.	6.2	44
27	X-ray Rietveld Analysis with a Physically Based Background. <i>Journal of Applied Crystallography</i> , 1995, 28, 115-120.	4.5	43
28	Nd ³⁺ activated CaF ₂ NPs as colloidal nanothermometers in the biological window. <i>Optical Materials</i> , 2017, 68, 29-34.	3.6	42
29	Synthesis and catalytic activity of metal nanoclusters inside functional resins: an endeavour lasting 15 years. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 1495-1507.	3.4	41
30	ASAXS study of Au, Pd and Pd@Au catalysts supported on active carbon. <i>Catalysis Today</i> , 1999, 49, 485-489.	4.4	35
31	Field-assisted ion diffusion of transition metals for the synthesis of nanocomposite silicate glasses. <i>Materials Science and Engineering C</i> , 2006, 26, 1087-1091.	7.3	33
32	Magnetic nanoparticle clusters as actuators of ssDNA release. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10023.	2.8	33
33	Covering the optical spectrum through collective rare-earth doping of NaGdF ₄ nanoparticles: 806 and 980 nm excitation routes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11825-11834.	2.8	33
34	Synthesis of novel allyl palladium complexes bearing purine based NHC and a water soluble phosphine and their catalytic activity in the Suzuki-Miyaura coupling in water. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4034.	3.5	33
35	Bi ₂ SiO ₅ @g-SiO ₂ upconverting nanoparticles: a bismuth-driven core-shell self-assembly mechanism. <i>Nanoscale</i> , 2019, 11, 675-687.	5.6	31
36	Nanocrystalline alanates Phase transformations, and catalysts. <i>Journal of Alloys and Compounds</i> , 2005, 404-406, 732-737.	5.5	30

#	ARTICLE	IF	CITATIONS
37	Bimetallic Pd-Au catalysts for benzaldehyde hydrogenation: Effects of preparation and of sulfur poisoning. <i>Catalysis Communications</i> , 2008, 9, 2353-2356.	3.3	30
38	Chemoselective and re-usable heterogeneous catalysts for the direct synthesis of hydrogen peroxide in the liquid phase under non-explosive conditions and in the absence of chemoselectivity enhancers. <i>Applied Catalysis A: General</i> , 2009, 358, 224-231.	4.3	30
39	The effect of Al ₂ O ₃ -promotion of sulfated zirconia on n-butane isomerization: An isotopic transient kinetic analysis. <i>Catalysis Communications</i> , 2006, 7, 209-213.	3.3	29
40	Synchrotron X-Ray Studies of Ti-Doped NaAlH ₄ . <i>Journal of Physical Chemistry B</i> , 2006, 110, 3051-3054.	2.6	29
41	Polymorphism and magnetic properties of Li ₂ MSiO ₄ (M = Fe, Mn) cathode materials. <i>Scientific Reports</i> , 2013, 3, 3452.	3.3	29
42	Mesoporous silica nanoparticles with tunable pore size for tailored gold nanoparticles. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	29
43	Au/C Catalyst: Experimental Evidence of the Coexistence of Nanoclusters and Larger Au Particles. <i>Langmuir</i> , 1998, 14, 6617-6619.	3.5	27
44	Colloidal nanothermometers based on neodymium doped alkaline-earth fluorides in the first and second biological windows. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 147-155.	7.8	27
45	Structure and Size of Poly-Domain Pd Nanoparticles Supported on Silica. <i>Catalysis Letters</i> , 2003, 88, 141-146.	2.6	26
46	Selective Hydrogenations and Dechlorinations in Water Mediated by Anionic Surfactant-Stabilized Pd Nanoparticles. <i>Journal of Organic Chemistry</i> , 2018, 83, 7438-7446.	3.2	26
47	Mercaptosilane-Passivated CuInS ₂ Quantum Dots for Luminescence Thermometry and Luminescent Labels. <i>ACS Applied Nano Materials</i> , 2019, 2, 2426-2436.	5.0	26
48	Calibration of the monochromator bandpass function for the X-ray Rietveld analysis. <i>Powder Diffraction</i> , 1997, 12, 160-166.	0.2	24
49	Laser beam irradiation of silver doped silicate glasses. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 3177-3182.	1.4	24
50	Increasing the Antibacterial Effect of Lysozyme by Immobilization on Multi-Walled Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 3100-3106.	0.9	24
51	Gel-type ion exchange resin stabilized Pd-Bi nanoparticles for the glycerol oxidation in liquid phase. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 39, 77-86.	5.8	24
52	Bismuth titanate-based UV filters embedded mesoporous silica nanoparticles: Role of bismuth concentration in the self-sealing process. <i>Journal of Colloid and Interface Science</i> , 2019, 549, 1-8.	9.4	24
53	Patterned nanoporous-gold thin layers: Structure control and tailoring of plasmonic properties. <i>Microporous and Mesoporous Materials</i> , 2012, 163, 153-159.	4.4	23
54	Determining the Degree of Crystallinity in Semicrystalline Materials by means of the Rietveld Analysis. <i>Journal of Applied Crystallography</i> , 1995, 28, 121-126.	4.5	22

#	ARTICLE	IF	CITATIONS
55	Thermal Evolution of Carbon-Supported Pd Nanoparticles Studied by Time-Resolved X-ray Diffraction. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8088-8091.	2.6	22
56	Microgel electrospinning: A novel tool for the fabrication of nanocomposite fibers. <i>Polymer</i> , 2009, 50, 6193-6197.	3.8	21
57	TiO ₂ nanoparticles obtained by laser ablation in water: Influence of pulse energy and duration on the crystalline phase. <i>Journal of Alloys and Compounds</i> , 2015, 643, S75-S79.	5.5	20
58	TEM and XRD investigation of Pd on ultradispersed diamond, correlation with catalytic activity. <i>Mendeleev Communications</i> , 2009, 19, 133-135.	1.6	19
59	Engineering efficient upconverting nanothermometers using Eu ³⁺ ions. <i>Nanoscale Advances</i> , 2019, 1, 757-764.	4.6	19
60	Structural and physical properties of cobalt nanocluster composite glasses. <i>Journal of Non-Crystalline Solids</i> , 2004, 336, 148-152.	3.1	18
61	WO ₃ /ZrO ₂ catalysts by sol-gel processing. <i>Journal of Non-Crystalline Solids</i> , 1998, 225, 178-183.	3.1	17
62	Fluorinated and Charged Hydrogenated Alkanethiolates Grafted on Gold: Expanding the Diversity of Mixed-Monolayer Nanoparticles for Biological Applications. <i>Bioconjugate Chemistry</i> , 2017, 28, 43-52.	3.6	17
63	Triphasic liquid systems: generation and segregation of catalytically active Pd nanoparticles in an ammonium-based catalyst-philic phase. <i>Chemical Communications</i> , 2006, , 4480.	4.1	16
64	Template controlled synthesis of monometallic zerovalent metal nanoclusters inside cross-linked polymer frameworks: the effect of a single matrix on the size of different metal nanoparticles. <i>New Journal of Chemistry</i> , 2010, 34, 2956.	2.8	16
65	Bottom-up/top-down synthesis of stable zirconium hydroxide nanophases. <i>Journal of Materials Chemistry</i> , 2012, 22, 23497.	6.7	16
66	Some structural and optical properties of copper and copper oxide nanoparticles in silica films formed by co-deposition of copper and silica. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 1932-1936.	3.1	15
67	Size dependent hcp-to-fcc transition temperature in Co nanoclusters obtained by ion implantation in silica. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 250, 206-209.	1.4	15
68	Cross-linked poly-vinyl polymers versus polyureas as designed supports for catalytically active MO nanoclusters. <i>Journal of Molecular Catalysis A</i> , 2009, 300, 48-58.	4.8	15
69	Cross-linked polyvinyl polymers versus polyureas as designed supports for catalytically active MO nanoclusters : Part III. Nanometer scale structure of the cross-linked polyurea support EnCat 30 and of the PdII/EnCat 30 and Pd0/EnCat 30NP catalysts. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 4068.	2.8	15
70	Cu/Ag-based bifunctional nanoparticles obtained by one-pot laser-assisted galvanic replacement. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	15
71	Characterization of Nanoporous Lanthanide-Doped Gadolinium Gallium Garnet Powders Obtained by Propellant Synthesis. <i>Materials Science Forum</i> , 2005, 494, 143-148.	0.3	14
72	A tri-block copolymer templated synthesis of gold nanostructures. <i>Journal of Colloid and Interface Science</i> , 2011, 357, 88-94.	9.4	14

#	ARTICLE	IF	CITATIONS
73	Surfactant-induced Substrate Selectivity in the Palladium Nanoparticle-Mediated Chemoselective Hydrogenation of Unsaturated Aldehydes in Water. <i>ChemCatChem</i> , 2014, 6, 1575-1578.	3.7	14
74	Novel nanostructured semicrystalline ionomers by chemoselective sulfonation of multiblock copolymers of syndiotactic polystyrene with polybutadiene. <i>RSC Advances</i> , 2014, 4, 60158-60167.	3.6	14
75	Rietveld analysis of the cubic crystal structure of Na-stabilized zirconia. <i>Journal of Materials Research</i> , 1997, 12, 318-321.	2.6	13
76	Scale Factor in Powder Diffraction. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1998, 54, 219-224.	0.3	13
77	Detecting palladium nanoparticles in Pd/C catalysts using X-ray Rietveld method. <i>Catalysis Letters</i> , 2000, 64, 119-124.	2.6	13
78	Gel-Type Cross-Linked Functional Polymers as Template in the Synthesis of Size Controlled Metal Nanoclusters. , 2008, , 413-418.		13
79	Gold stabilized aqueous sols immobilized on mesoporous CeO ₂ -Al ₂ O ₃ as catalysts for the preferential oxidation of carbon monoxide. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 435-442.	9.4	12
80	Stabilization of cubic Na-modified ZrO ₂ : a neutron diffraction study. <i>Journal of Applied Crystallography</i> , 1999, 32, 475-480.	4.5	11
81	Neutron diffraction study of mechanically alloyed and in situ annealed Al ₇₅ Mo ₂₅ powders. <i>Journal of Applied Physics</i> , 2000, 87, 2753-2759.	2.5	11
82	Highly Hydrophilic Copolymers of N,N-Dimethylacrylamide, Acrylamido-2-methylpropanesulfonic acid, and Ethylenedimethacrylate: Nanoscale Morphology in the Swollen State and Use as Exotemplates for Synthesis of Nanostructured Ferric Oxide. <i>Chemistry - A European Journal</i> , 2012, 18, 6632-6643.	3.3	11
83	SERS and catalytically active Ag/Pd nanoparticles obtained by combining laser ablation and galvanic replacement. <i>Journal of Alloys and Compounds</i> , 2014, 615, S352-S356.	5.5	11
84	Radiofrequency magnetron co-sputtering deposition synthesis of Co-based nanocomposite glasses for optical and magnetic applications. <i>Applied Surface Science</i> , 2004, 226, 62-67.	6.1	10
85	Biphase hydroformylation catalyzed by rhodium in combination with a water-soluble pyridyl-triazole ligand. <i>Inorganica Chimica Acta</i> , 2017, 455, 613-617.	2.4	10
86	A semi-empirical asymmetry function for X-ray diffraction peak profiles. <i>Powder Diffraction</i> , 1995, 10, 204-206.	0.2	9
87	Influence of preparation procedure on physical and catalytic properties of carbon supported Pd-Au catalysts.. <i>Studies in Surface Science and Catalysis</i> , 2000, 143, 1011-1018.	1.5	9
88	Thermal evolution of cobalt nanocrystals embedded in silica. <i>Materials Science and Engineering C</i> , 2007, 27, 193-196.	7.3	9
89	The metathesis of 1-olefins over supported Re-catalysts in supercritical CO ₂ . <i>Green Chemistry</i> , 2009, 11, 229-238.	9.0	9
90	Synthesis of Nanocomposites from Pd ⁰ and a Hyper-Cross-Linked Functional Resin Obtained from a Conventional Gel-Type Precursor. <i>Chemistry - A European Journal</i> , 2013, 19, 9381-9387.	3.3	9

#	ARTICLE	IF	CITATIONS
91	Influence of Metal Precursors and Reduction Protocols on the Chloride-Free Preparation of Catalysts for the Direct Synthesis of Hydrogen Peroxide without Selectivity Enhancers. <i>ChemCatChem</i> , 2016, 8, 1564-1574.	3.7	9
92	A study of Al-Mo alloys synthesized by mechanical treatment and annealed in-situ. <i>Scripta Materialia</i> , 1999, 12, 547-550.	0.5	8
93	Nanoscale Characterization of Metal Nanoclusters by Means of X-Ray Diffraction (XRD) and Transmission Electron Microscopy (TEM) Techniques. , 2008, , 129-147.		8
94	Metal catalysis with nanostructured metals supported on strongly acidic cross-linked polymer frameworks. Part I. The behaviour of M ²⁺ ions (M=Ni, Pd, Pt, Cu) supported on Rohm & Haas's resin A70 and Du Pont's SAC-13, towards H ₂ in the solid state and NaBH ₄ in aqueous medium. <i>Reactive and Functional Polymers</i> , 2010, 70, 639-646.	4.1	8
95	Copper-based nanocluster composite silica films by rf-sputtering deposition. <i>Materials Science and Engineering C</i> , 2006, 26, 1092-1096.	7.3	7
96	In situ wide angle X-ray scattering (WAXS) study of bimetallic Au-Pd catalysts. <i>Catalysis Letters</i> , 2000, 69, 17-20.	2.6	6
97	Influence of halide ions on the structure and properties of copper indium sulphide quantum dots. <i>Chemical Communications</i> , 2020, 56, 3341-3344.	4.1	6
98	Metal catalysis with nanostructured metals supported inside strongly acidic cross-linked polymer frameworks: Influence of reduction conditions of Au(III)-containing resins on metal nanoclusters formation in macroreticular and gel-type materials. <i>Inorganica Chimica Acta</i> , 2012, 391, 114-120.	2.4	5
99	Metal nanoclusters stabilized by pH-responsive microgels: Preparation and evaluation of their catalytic potential. <i>Reactive and Functional Polymers</i> , 2017, 115, 81-86.	4.1	5
100	Seeded growth of gold nanorods: the effect of sulfur-containing quenching agents. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	4
101	Resonant-XRD Characterization of Nanoalloyed Au-Pd Catalysts for the Direct Synthesis of H ₂ O ₂ : Quantitative Analysis of Size Dependent Composition of the Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2959.	2.5	4
102	Microgels as Soluble Scaffolds for the Preparation of Noble Metal Nanoparticles Supported on Nanostructured Metal Oxides. <i>ACS Applied Nano Materials</i> , 2021, 4, 8343-8351.	5.0	4
103	Polymer-Hematite Nanocomposites: Templating Effect of Commercial Ion-Exchangers in the Growth of Size-Controlled Iron Oxide Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 6872-6879.	0.9	2
104	Ionic liquid mediated deposition of ruthenium mirrors on glass under multiphase conditions. <i>New Journal of Chemistry</i> , 2016, 40, 1948-1952.	2.8	1