

# Daniela Zanchet

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102 papers	7,291 citations	38 h-index	85 g-index
107 ext. papers	7,766 ext. citations	6.7 avg, IF	5.51 L-index

#	Paper	IF	Citations
102	Contribution of Different Species in Ni-Ceria Nanorods Catalysts Applied to Steam Reforming of Ethanol. <i>ChemistrySelect</i> , <b>2021</b> , 6, 11188-11197	1.8	1
101	Enhancement of Alkyne Semi-Hydrogenation Selectivity by Electronic Modification of Platinum. <i>ACS Catalysis</i> , <b>2020</b> , 10, 6763-6770	13.1	8
100	Supported AuCu Alloy Nanoparticles for the Preferential Oxidation of CO (CO-PROX). <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 923-934	5.6	10
99	CeO <sub>2</sub> -supported Au and AuCu catalysts for CO oxidation: Impact of activation protocol and residual chlorine on the active sites. <i>Catalysis Today</i> , <b>2020</b> ,	5.3	4
98	Exploring the synthesis conditions to control the morphology of gold-iron oxide heterostructures. <i>Nano Research</i> , <b>2019</b> , 12, 1781-1788	10	11
97	Effect of the Pt Precursor and Loading on the Structural Parameters and Catalytic Properties of Pt/Al <sub>2</sub> O <sub>3</sub> . <i>ChemCatChem</i> , <b>2019</b> , 11, 3064-3074	5.2	10
96	Cooperative Co /Co Sites Stabilized by a Perovskite Matrix Enable Selective C-O and C-C bond Hydrogenolysis of Oxygenated Arenes. <i>ChemSusChem</i> , <b>2019</b> , 12, 2171-2175	8.3	9
95	Impact of Transition Metal Carbide and Nitride Supports on the Electronic Structure of Thin Platinum Overlayers. <i>ACS Catalysis</i> , <b>2019</b> , 9, 7090-7098	13.1	20
94	Intrinsic activity of interfacial sites for Pt-Fe and Pt-Mo catalysts in the hydrogenation of carbonyl groups. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 231, 182-190	21.8	31
93	Concerted Bimetallic Nanocluster Synthesis and Encapsulation via Induced Zeolite Framework Demetallation for Shape and Substrate Selective Heterogeneous Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 6454-6458	16.4	50
92	Concerted Bimetallic Nanocluster Synthesis and Encapsulation via Induced Zeolite Framework Demetallation for Shape and Substrate Selective Heterogeneous Catalysis. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 6564-6568	3.6	5
91	The Crucial Role of the Support in the Transformations of Bimetallic Nanoparticles and Catalytic Performance. <i>ACS Catalysis</i> , <b>2018</b> , 8, 1031-1037	13.1	26
90	Catalysts synthesized by selective deposition of Fe onto Pt for the water-gas shift reaction. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 222, 182-190	21.8	29
89	Formation of Bimetallic Copper-Gold Alloy Nanoparticles Probed by in Situ X-ray Absorption Fine Structure Spectroscopy. <i>European Journal of Inorganic Chemistry</i> , <b>2018</b> , 2018, 3770-3777	2.3	4
88	The role of Pt-FexOy interfacial sites for CO oxidation. <i>Journal of Catalysis</i> , <b>2018</b> , 358, 19-26	7.3	32
87	Platinum clusters deposited on maghemite applied to preferential oxidation of CO under hydrogen rich conditions (PROX-CO). <i>Applied Catalysis A: General</i> , <b>2018</b> , 568, 86-94	5.1	9
86	Pt-CeO <sub>2</sub> Catalysts Synthesized by Glucose Assisted Hydrothermal Method: Impact of Calcination Parameters on the Structural Properties and Catalytic Performance in PROX-CO. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 3405-3412	1.3	4

85	The Structure of the Cu <sub>2</sub> O Sites Determines the Catalytic Activity of Cu Nanoparticles. <i>ACS Catalysis</i> , <b>2017</b> , 7, 2419-2424	13.1	32
84	Transition-Metal Nitride Core@Noble-Metal Shell Nanoparticles as Highly CO Tolerant Catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 8828-8833	16.4	64
83	Transition-Metal Nitride Core@Noble-Metal Shell Nanoparticles as Highly CO Tolerant Catalysts. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 8954-8959	3.6	8
82	Synthesis Gas Conversion over Rh-Based Catalysts Promoted by Fe and Mn. <i>ACS Catalysis</i> , <b>2017</b> , 7, 4550-4563	13.1	42
81	AuCu alloy nanoparticles supported on SiO <sub>2</sub> : Impact of redox pretreatments in the catalyst performance in CO oxidation. <i>Catalysis Today</i> , <b>2017</b> , 282, 105-110	5.3	28
80	VOx-Pt/Al <sub>2</sub> O <sub>3</sub> catalysts for hydrogen production. <i>Catalysis Today</i> , <b>2017</b> , 289, 249-257	5.3	10
79	Pretreatment impact on the morphology and the catalytic performance of hybrid heterodimers nanoparticles applied to CO oxidation. <i>Catalysis Today</i> , <b>2017</b> , 282, 151-158	5.3	5
78	Au <sub>1-x</sub> Cu <sub>x</sub> colloidal nanoparticles synthesized via a one-pot approach: understanding the temperature effect on the Au : Cu ratio. <i>RSC Advances</i> , <b>2016</b> , 6, 22213-22221	3.7	5
77	Complex interplay of structural and surface properties of ceria on platinum supported catalyst under water gas shift reaction. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 197, 73-85	21.8	20
76	Dumbbell-like AuCu@FeO Nanocrystals: Synthesis, Characterization, and Catalytic Activity in CO Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 28624-28632	9.5	16
75	Toward Understanding Metal-Catalyzed Ethanol Reforming. <i>ACS Catalysis</i> , <b>2015</b> , 5, 3841-3863	13.1	145
74	Alloying Tungsten Carbide Nanoparticles with Tantalum: Impact on Electrochemical Oxidation Resistance and Hydrogen Evolution Activity. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 13691-13699	3.8	35
73	Study of the properties of supported Pd catalysts for steam and autothermal reforming of methane. <i>Applied Catalysis A: General</i> , <b>2014</b> , 475, 256-269	5.1	16
72	GISAXS and GIWAXS study on self-assembling processes of nanoparticle based superlattices. <i>CrystEngComm</i> , <b>2014</b> , 16, 9482-9492	3.3	21
71	Probing the stability of Pt nanoparticles encapsulated in sol-gel Al <sub>2</sub> O <sub>3</sub> using in situ and ex situ characterization techniques. <i>Applied Catalysis A: General</i> , <b>2014</b> , 485, 108-117	5.1	8
70	Cobalt nanoparticles prepared by three different methods. <i>Journal of Experimental Nanoscience</i> , <b>2014</b> , 9, 398-405	1.9	22
69	Interplay between particle size, composition, and structure of MgAl <sub>2</sub> O <sub>4</sub> -supported Co <sub>2</sub> Ni catalysts and their influence on carbon accumulation during steam reforming of ethanol. <i>Journal of Catalysis</i> , <b>2013</b> , 307, 222-237	7.3	31
68	Understanding the stability of Co-supported catalysts during ethanol reforming as addressed by in situ temperature and spatial resolved XAFS analysis. <i>Journal of Catalysis</i> , <b>2012</b> , 287, 124-137	7.3	45

67	Catalytic partial oxidation and steam reforming of methane on La <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> supported Pt catalysts as observed by X-ray absorption spectroscopy. <i>Applied Catalysis A: General</i> , <b>2012</b> , 431-432, 79-87	5.1	17
66	Structural Aspects of Anisotropic Metal Nanoparticle Growth: Experiment and Theory <b>2012</b> , 215-238		
65	Direct Access to Oxidation-Resistant Nickel Catalysts through an Organometallic Precursor. <i>ACS Catalysis</i> , <b>2012</b> , 2, 925-929	13.1	20
64	Magnetic and structural properties of fcc/hcp bi-crystalline multilayer Co nanowire arrays prepared by controlled electroplating. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 083919	2.5	49
63	Surface and structural features of Pt/CeO <sub>2</sub> -La <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> catalysts for partial oxidation and steam reforming of methane. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 107, 221-236	21.8	54
62	On the stabilization of gold nanoparticles over silica-based magnetic supports modified with organosilanes. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 4626-31	4.8	31
61	Structure and morphology of spinel MFe <sub>2</sub> O <sub>4</sub> (M=Fe, Co, Ni) nanoparticles chemically synthesized from heterometallic complexes. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 358, 39-46	9.3	37
60	Nanostructures in ionic liquids: correlation of iridium nanoparticles size and shape with imidazolium salts structural organization and catalytic properties. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 6826-33	3.6	77
59	Designing Pt nanoparticles supported on CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> : Synthesis, characterization and catalytic properties in the steam reforming and partial oxidation of methane. <i>Journal of Catalysis</i> , <b>2010</b> , 276, 351-359	7.3	42
58	Effect of the CeO <sub>2</sub> content on the surface and structural properties of CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> mixed oxides prepared by sol-gel method. <i>Applied Catalysis A: General</i> , <b>2010</b> , 388, 45-56	5.1	34
57	The effects of CeO <sub>2</sub> on the activity and stability of Pt supported catalysts for methane reforming, as addressed by in situ temperature resolved XAFS and TEM analysis. <i>Journal of Catalysis</i> , <b>2009</b> , 263, 335-344	7.3	38
56	Size-dependent SERS enhancement of colloidal silver nanoplates: the case of 2-amino-5-nitropyridine. <i>Journal of Raman Spectroscopy</i> , <b>2009</b> , 40, 183-190	2.3	54
55	Construction of heterogeneous Ni catalysts from supports and colloidal nanoparticles: A challenging puzzle. <i>Journal of Molecular Catalysis A</i> , <b>2009</b> , 301, 11-17		29
54	Interplay between crystallization and particle growth during the isothermal annealing of colloidal iron oxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 339, 344-50	9.3	16
53	A new activation process of bimetallic catalysts and application to the n-hexane isomerization. <i>Applied Catalysis A: General</i> , <b>2009</b> , 355, 20-26	5.1	16
52	The effects of Pt promotion on the oxi-reduction properties of alumina supported nickel catalysts for oxidative steam-reforming of methane: Temperature-resolved XAFS analysis. <i>Applied Catalysis A: General</i> , <b>2009</b> , 366, 122-129	5.1	28
51	Colloidal Co nanoparticles supported on SiO <sub>2</sub> : Synthesis, characterization and catalytic properties for steam reforming of ethanol. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 91, 670-678	21.8	37
50	New Insights on the Growth of Anisotropic Nanoparticles from Total Energy Calculations. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 11976-11979	3.8	4

49	Chemical synthesis and structural characterization of highly disordered Ni colloidal nanoparticles. <i>ACS Nano</i> , <b>2008</b> , 2, 1313-9	16.7	96
48	Textural and Structural Analyses of Industrial Raney Nickel Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 8612-8618	3.9	13
47	Magnetic behavior of Ni nanoparticles with high disordered atomic structure. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 183113	3.4	22
46	Correlation analysis of TEM images of nanocrystal molecules. <i>Langmuir</i> , <b>2008</b> , 24, 10084-8	4	6
45	Structural and morphological investigation of magnetic nanoparticles based on iron oxides for biomedical applications. <i>Materials Science and Engineering C</i> , <b>2008</b> , 28, 489-494	8.3	34
44	Partial oxidation and autothermal reforming of methane on Pd/CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Applied Catalysis A: General</i> , <b>2008</b> , 348, 183-192	5.1	52
43	The effects of La <sub>2</sub> O <sub>3</sub> on the structural properties of La <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> prepared by the sol-gel method and on the catalytic performance of Pt/La <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> towards steam reforming and partial oxidation of methane. <i>Applied Catalysis B: Environmental</i> , <b>2008</b> , 84, 552-562	21.8	65
42	An investigation of the activation process of high temperature shift catalyst. <i>Catalysis Today</i> , <b>2008</b> , 133-135, 174-180	5.3	12
41	Complex magnetic internal order in structurally disordered Ni nanoparticles. <i>European Physical Journal B</i> , <b>2008</b> , 66, 503-508	1.2	7
40	Formation Kinetics of Silver Triangular Nanoplates. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 2885-2891	3.8	53
39	Steam reforming of ethanol on supported nickel catalysts. <i>Applied Catalysis A: General</i> , <b>2007</b> , 327, 197-204	3.4	123
38	Alumina-supported Ni catalysts modified with silver for the steam reforming of methane: Effect of Ag on the control of coke formation. <i>Applied Catalysis A: General</i> , <b>2007</b> , 330, 12-22	5.1	122
37	Annealing effects on 5 nm iron oxide nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 3313-7	1.3	9
36	Size dependence on the ordering process in colloidal FePt nanoparticles. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 023903	2.5	14
35	Growth aspects of photochemically synthesized silver triangular nanoplates. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 618-25	1.3	14
34	Effects of magnetic interparticle coupling on the blocking temperature of ferromagnetic nanoparticle arrays. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 743-747	3.9	50
33	Structural Defects and Their Role in the Growth of Ag Triangular Nanoplates. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 6989-6993	3.8	80
32	Size effect and surface tension measurements in Ni and Co nanowires. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	51

31	Structural and optical characterization of strained free-standing InP nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 2182-6	1.3	15
30	Effects of dipolar interactions on the magnetic properties of Fe <sub>2</sub> O <sub>3</sub> nanoparticles in the blocked state. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08N705	2.5	45
29	A simple two-phase route to silver nanoparticles/polyaniline structures. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 17063-9	3.4	92
28	Transverse magnetic anisotropy of magnetoelastic origin induced in Co nanowires. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 384, 22-24	2.8	19
27	Effect of dipolar interaction observed in iron-based nanoparticles. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	175
26	Dipolar interaction and size effects in powder samples of colloidal iron oxide nanoparticles. <i>Nanotechnology</i> , <b>2005</b> , 16, S285-S290	3.4	31
25	Surface Segregation in SnO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> Nanopowders and Effects in Mössbauer Spectroscopy. <i>European Journal of Inorganic Chemistry</i> , <b>2005</b> , 2005, 2134-2138	2.3	48
24	Influence of synthetic parameters on the size, structure, and stability of dodecanethiol-stabilized silver nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 292, 429-35	9.3	168
23	Quantitative analysis of gold nanoparticles from synchrotron data by means of least-squares techniques. <i>European Physical Journal B</i> , <b>2004</b> , 41, 485-493	1.2	27
22	Interaction effects in magnetic granular systems. <i>Physica B: Condensed Matter</i> , <b>2004</b> , 354, 80-87	2.8	32
21	Structural, magnetic, and Mossbauer characterization of size-controlled iron-iron oxide nanoparticles obtained by chemical methods. <i>IEEE Transactions on Magnetism</i> , <b>2003</b> , 39, 2681-2683	2	7
20	Biological applications of colloidal nanocrystals. <i>Nanotechnology</i> , <b>2003</b> , 14, R15-R27	3.4	626
19	Nanoscience and Nanotechnology Research at the Brazilian National Synchrotron Laboratory (LNLS). <i>Physica Status Solidi (B): Basic Research</i> , <b>2002</b> , 232, 24-31	1.3	1
18	Cell Motility and Metastatic Potential Studies Based on Quantum Dot Imaging of Phagokinetic Tracks. <i>Advanced Materials</i> , <b>2002</b> , 14, 882	2.4	332
17	Sorting fluorescent nanocrystals with DNA. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 7070-4	16.4	263
16	Molecular Weight, Osmotic Second Virial Coefficient, and Extinction Coefficient of Colloidal CdSe Nanocrystals. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 5500-5505	3.4	117
15	Conjugation of DNA to Silanized Colloidal Semiconductor Nanocrystalline Quantum Dots. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 2113-2119	9.6	274
14	Synthesis of hcp-Co Nanodisks. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 12874-80	16.4	595

13	Electrophoretic and Structural Studies of DNA-Directed Au Nanoparticle Groupings. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 11758-11763	3.4	190
12	Electrophoretic Isolation of Discrete Au Nanocrystal/DNA Conjugates. <i>Nano Letters</i> , <b>2001</b> , 1, 32-35	11.5	419
11	Synthesis and Properties of Biocompatible Water-Soluble Silica-Coated CdSe/ZnS Semiconductor Quantum Dots $\square$ <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 8861-8871	3.4	1128
10	Inter-atomic distance contraction in thiol-passivated gold nanoparticles. <i>Chemical Physics Letters</i> , <b>2000</b> , 323, 167-172	2.5	83
9	Estimating nanoparticle size from diffraction measurements. <i>Journal of Applied Crystallography</i> , <b>2000</b> , 33, 1335-1341	3.8	170
8	Influence of particle size distribution on magnetic properties of nanocrystalline soft magnetic Fe/sub 86/Zr/sub 7/Cu/sub 1/B/sub 6/. <i>IEEE Transactions on Magnetics</i> , <b>2000</b> , 36, 3430-3432	2	6
7	Structure Population in Thiol-Passivated Gold Nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 11013-11018	3.4	67
6	Anomalous Packing in Thin Nanoparticle Supercrystals. <i>Physical Review Letters</i> , <b>1999</b> , 82, 5277-5280	7.4	35
5	Linearly polarized Cu K-edge absorption spectroscopy of CuGeO <sub>3</sub> : Orbital population, band dispersion, and exchange interactions. <i>Physical Review B</i> , <b>1999</b> , 59, 12450-12456	3.3	1
4	Studies of Fe(II) and Fe(III)-DNA complexes by XANES spectroscopy. <i>Journal of Synchrotron Radiation</i> , <b>1999</b> , 6, 417-8	2.4	11
3	Commissioning and first results of the LNLS XAFS beamline. <i>Journal of Synchrotron Radiation</i> , <b>1998</b> , 5, 521-3	2.4	71
2	The electronic structure of CaMnO <sub>x</sub> with 2.66 $\leq x \leq 3.00$ . <i>Solid State Communications</i> , <b>1997</b> , 103, 9-13	1.6	18
1	The impact of ceria loading on the CuO <sub>x</sub> -CeO <sub>2</sub> interaction and performance of AuCu/CeO <sub>2</sub> -SiO <sub>2</sub> catalysts in CO-PROX reaction. <i>European Journal of Inorganic Chemistry</i> ,	2.3	1