Daniela Zanchet

List of Publications by Citations

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	Synthesis and Properties of Biocompatible Water-Soluble Silica-Coated CdSe/ZnS Semiconductor Quantum Dots *Journal of Physical Chemistry B*, **2001**, 105, 8861-8871	3.4	1128
101	Biological applications of colloidal nanocrystals. *Nanotechnology*, **2003**, 14, R15-R27	3.4	626
100	Synthesis of hcp-Co Nanodisks. *Journal of the American Chemical Society*, **2002**, 124, 12874-80	16.4	595
99	Electrophoretic Isolation of Discrete Au Nanocrystal/DNA Conjugates. *Nano Letters*, **2001**, 1, 32-35	11.5	419
98	Cell Motility and Metastatic Potential Studies Based on Quantum Dot Imaging of Phagokinetic Tracks. *Advanced Materials*, **2002**, 14, 882	24	332
97	Conjugation of DNA to Silanized Colloidal Semiconductor Nanocrystalline Quantum Dots. *Chemistry of Materials*, **2002**, 14, 2113-2119	9.6	274
96	Sorting fluorescent nanocrystals with DNA. *Journal of the American Chemical Society*, **2002**, 124, 7070-4	16.4	263
95	Electrophoretic and Structural Studies of DNA-Directed Au Nanoparticle Groupings. *Journal of Physical Chemistry B*, **2002**, 106, 11758-11763	3.4	190
94	Effect of dipolar interaction observed in iron-based nanoparticles. *Physical Review B*, **2005**, 72,	3.3	175
93	Estimating nanoparticle size from diffraction measurements. *Journal of Applied Crystallography*, **2000**, 33, 1335-1341	3.8	170
92	Influence of synthetic parameters on the size, structure, and stability of dodecanethiol-stabilized silver nanoparticles. *Journal of Colloid and Interface Science*, **2005**, 292, 429-35	9.3	168
91	Toward Understanding Metal-Catalyzed Ethanol Reforming. *ACS Catalysis*, **2015**, 5, 3841-3863	13.1	145
90	Steam reforming of ethanol on supported nickel catalysts. *Applied Catalysis A: General*, **2007**, 327, 197-204	5.1	123
89	Alumina-supported Ni catalysts modified with silver for the steam reforming of methane: Effect of Ag on the control of coke formation. *Applied Catalysis A: General*, **2007**, 330, 12-22	5.1	122
88	Molecular Weight, Osmotic Second Virial Coefficient, and Extinction Coefficient of Colloidal CdSe Nanocrystals. *Journal of Physical Chemistry B*, **2002**, 106, 5500-5505	3.4	117
87	Chemical synthesis and structural characterization of highly disordered N colloidal nanoparticles. *ACS Nano*, **2008**, 2, 1313-9	16.7	96
86	A simple two-phase route to silver nanoparticles/polyaniline structures. *Journal of Physical Chemistry B*, **2006**, 110, 17063-9	3.4	92

85	Inter-atomic distance contraction in thiol-passivated gold nanoparticles. *Chemical Physics Letters*, **2000**, 323, 167-172	2.5	83
84	Structural Defects and Their Role in the Growth of Ag Triangular Nanoplates. *Journal of Physical Chemistry C*, **2007**, 111, 6989-6993	3.8	80
83	Nanostructures in ionic liquids: correlation of iridium nanoparticlesR size and shape with imidazolium saltsR structural organization and catalytic properties. *Physical Chemistry Chemical Physics*, **2010**, 12, 6826-33	3.6	77
82	Commissioning and first results of the LNLS XAFS beamline. *Journal of Synchrotron Radiation*, **1998**, 5, 521-3	2.4	71
81	Structure Population in Thiol-Passivated Gold Nanoparticles. *Journal of Physical Chemistry B*, **2000**, 104, 11013-11018	3.4	67
80	The effects of La2O3 on the structural properties of La2O3Al2O3 prepared by the sol gel method and on the catalytic performance of Pt/La2O3Al2O3 towards steam reforming and partial oxidation of methane. *Applied Catalysis B: Environmental*, **2008**, 84, 552-562	21.8	65
79	Transition-Metal Nitride Core@Noble-Metal Shell Nanoparticles as Highly CO Tolerant Catalysts. *Angewandte Chemie - International Edition*, **2017**, 56, 8828-8833	16.4	64
78	Surface and structural features of Pt/CeO2-La2O3-Al2O3 catalysts for partial oxidation and steam reforming of methane. *Applied Catalysis B: Environmental*, **2011**, 107, 221-236	21.8	54
77	Size-dependent SERS enhancement of colloidal silver nanoplates: the case of 2-amino-5-nitropyridine. *Journal of Raman Spectroscopy*, **2009**, 40, 183-190	2.3	54
76	Formation Kinetics of Silver Triangular Nanoplates. *Journal of Physical Chemistry C*, **2007**, 111, 2885-2891	3.8	53
75	Partial oxidation and autothermal reforming of methane on Pd/CeO2Al2O3 catalysts. *Applied Catalysis A: General*, **2008**, 348, 183-192	5.1	52
74	Size effect and surface tension measurements in Ni and Co nanowires. *Physical Review B*, **2007**, 76,	3.3	51
73	Concerted Bimetallic Nanocluster Synthesis and Encapsulation via Induced Zeolite Framework Demetallation for Shape and Substrate Selective Heterogeneous Catalysis. *Angewandte Chemie - International Edition*, **2018**, 57, 6454-6458	16.4	50
72	Effects of magnetic interparticle coupling on the blocking temperature of ferromagnetic nanoparticle arrays. *Journal of Non-Crystalline Solids*, **2007**, 353, 743-747	3.9	50
71	Magnetic and structural properties of fcc/hcp bi-crystalline multilayer Co nanowire arrays prepared by controlled electroplating. *Journal of Applied Physics*, **2011**, 109, 083919	2.5	49
70	Surface Segregation in SnO2Fe2O3 Nanopowders and Effects in Mssbauer Spectroscopy. *European Journal of Inorganic Chemistry*, **2005**, 2005, 2134-2138	2.3	48
69	Understanding the stability of Co-supported catalysts during ethanol reforming as addressed by in situ temperature and spatial resolved XAFS analysis. *Journal of Catalysis*, **2012**, 287, 124-137	7.3	45
68	Effects of dipolar interactions on the magnetic properties of Fe2O3 nanoparticles in the blocked state. *Journal of Applied Physics*, **2006**, 99, 08N705	2.5	45

67	Synthesis Gas Conversion over Rh-Based Catalysts Promoted by Fe and Mn. *ACS Catalysis*, **2017**, 7, 4550-4563	13.1	42
66	Designing Pt nanoparticles supported on CeO2–Al2O3: Synthesis, characterization and catalytic properties in the steam reforming and partial oxidation of methane. *Journal of Catalysis*, **2010**, 276, 351-359	7.3	42
65	The effects of CeO2 on the activity and stability of Pt supported catalysts for methane reforming, as addressed by in situ temperature resolved XAFS and TEM analysis. *Journal of Catalysis*, **2009**, 263, 335-344	7.3	38
64	Colloidal Co nanoparticles supported on SiO2: Synthesis, characterization and catalytic properties for steam reforming of ethanol. *Applied Catalysis B: Environmental*, **2009**, 91, 670-678	21.8	37
63	Structure and morphology of spinel MFe2O4 (M=Fe, Co, Ni) nanoparticles chemically synthesized from heterometallic complexes. *Journal of Colloid and Interface Science*, **2011**, 358, 39-46	9.3	37
62	Alloying Tungsten Carbide Nanoparticles with Tantalum: Impact on Electrochemical Oxidation Resistance and Hydrogen Evolution Activity. *Journal of Physical Chemistry C*, **2015**, 119, 13691-13699	3.8	35
61	Anomalous Packing in Thin Nanoparticle Supercrystals. *Physical Review Letters*, **1999**, 82, 5277-5280	7.4	35
60	Effect of the CeO2 content on the surface and structural properties of CeO2–Al2O3 mixed oxides prepared by sol–gel method. *Applied Catalysis A: General*, **2010**, 388, 45-56	5.1	34
59	Structural and morphological investigation of magnetic nanoparticles based on iron oxides for biomedical applications. *Materials Science and Engineering C*, **2008**, 28, 489-494	8.3	34
58	The Structure of the Cu–CuO Sites Determines the Catalytic Activity of Cu Nanoparticles. *ACS Catalysis*, **2017**, 7, 2419-2424	13.1	32
57	Interaction effects in magnetic granular systems. *Physica B: Condensed Matter*, **2004**, 354, 80-87	2.8	32
56	The role of Pt-FexOy interfacial sites for CO oxidation. *Journal of Catalysis*, **2018**, 358, 19-26	7.3	32
55	Intrinsic activity of interfacial sites for Pt-Fe and Pt-Mo catalysts in the hydrogenation of carbonyl groups. *Applied Catalysis B: Environmental*, **2018**, 231, 182-190	21.8	31
54	Interplay between particle size, composition, and structure of MgAl2O4-supported Co–Cu catalysts and their influence on carbon accumulation during steam reforming of ethanol. *Journal of Catalysis*, **2013**, 307, 222-237	7.3	31
53	On the stabilization of gold nanoparticles over silica-based magnetic supports modified with organosilanes. *Chemistry - A European Journal*, **2011**, 17, 4626-31	4.8	31
52	Dipolar interaction and size effects in powder samples of colloidal iron oxide nanoparticles. *Nanotechnology*, **2005**, 16, S285-S290	3.4	31
51	Catalysts synthesized by selective deposition of Fe onto Pt for the water-gas shift reaction. *Applied Catalysis B: Environmental*, **2018**, 222, 182-190	21.8	29
50	Construction of heterogeneous Ni catalysts from supports and colloidal nanoparticles – A challenging puzzle. *Journal of Molecular Catalysis A*, **2009**, 301, 11-17		29

49	AuCu alloy nanoparticles supported on SiO2: Impact of redox pretreatments in the catalyst performance in CO oxidation. *Catalysis Today*, **2017**, 282, 105-110	5.3	28
48	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. *Applied Catalysis A: General*, **2009**, 366, 122-129	5.1	28
47	Quantitative analysis of gold nanoparticles from synchrotron data by means of least-squares techniques. *European Physical Journal B*, **2004**, 41, 485-493	1.2	27
46	The Crucial Role of the Support in the Transformations of Bimetallic Nanoparticles and Catalytic Performance. *ACS Catalysis*, **2018**, 8, 1031-1037	13.1	26
45	Cobalt nanoparticles prepared by three different methods. *Journal of Experimental Nanoscience*, **2014**, 9, 398-405	1.9	22
44	Magnetic behavior of Ni nanoparticles with high disordered atomic structure. *Applied Physics Letters*, **2008**, 92, 183113	3.4	22
43	GISAXS and GIWAXS study on self-assembling processes of nanoparticle based superlattices. *CrystEngComm*, **2014**, 16, 9482-9492	3.3	21
42	Impact of Transition Metal Carbide and Nitride Supports on the Electronic Structure of Thin Platinum Overlayers. *ACS Catalysis*, **2019**, 9, 7090-7098	13.1	20
41	Direct Access to Oxidation-Resistant Nickel Catalysts through an Organometallic Precursor. *ACS Catalysis*, **2012**, 2, 925-929	13.1	20
40	Complex interplay of structural and surface properties of ceria on platinum supported catalyst under water gas shift reaction. *Applied Catalysis B: Environmental*, **2016**, 197, 73-85	21.8	20
39	Transverse magnetic anisotropy of magnetoelastic origin induced in Co nanowires. *Physica B: Condensed Matter*, **2006**, 384, 22-24	2.8	19
38	The electronic structure of CaMnOx with 2.66 □x □3.00. *Solid State Communications*, **1997**, 103, 9-13	1.6	18
37	Catalytic partial oxidation and steam reforming of methane on La2O3□Al2O3 supported Pt catalysts as observed by X-ray absorption spectroscopy. *Applied Catalysis A: General*, **2012**, 431-432, 79-87	5.1	17
36	Study of the properties of supported Pd catalysts for steam and autothermal reforming of methane. *Applied Catalysis A: General*, **2014**, 475, 256-269	5.1	16
35	Interplay between crystallization and particle growth during the isothermal annealing of colloidal iron oxide nanoparticles. *Journal of Colloid and Interface Science*, **2009**, 339, 344-50	9.3	16
34	A new activation process of bimetallic catalysts and application to the n-hexane isomerization. *Applied Catalysis A: General*, **2009**, 355, 20-26	5.1	16
33	Dumbbell-like AuCu@FeO Nanocrystals: Synthesis, Characterization, and Catalytic Activity in CO Oxidation. *ACS Applied Materials & Interfaces*, **2016**, 8, 28624-28632	9.5	16
32	Structural and optical characterization of strained free-standing InP nanowires. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 2182-6	1.3	15

31	Size dependence on the ordering process in colloidal FePt nanoparticles. *Journal of Applied Physics*, **2007**, 101, 023903	2.5	14
30	Growth aspects of photochemically synthesized silver triangular nanoplates. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 618-25	1.3	14
29	Textural and Structural Analyses of Industrial Raney Nickel Catalyst. *Industrial & Engineering Chemistry Research*, **2008**, 47, 8612-8618	3.9	13
28	An investigation of the activation process of high temperature shift catalyst. *Catalysis Today*, **2008**, 133-135, 174-180	5.3	12
27	Exploring the synthesis conditions to control the morphology of gold-iron oxide heterostructures. *Nano Research*, **2019**, 12, 1781-1788	10	11
26	Studies of Fe(II) and Fe(III)-DNA complexes by XANES spectroscopy. *Journal of Synchrotron Radiation*, **1999**, 6, 417-8	2.4	11
25	Effect of the Pt Precursor and Loading on the Structural Parameters and Catalytic Properties of Pt/Al2O3. *ChemCatChem*, **2019**, 11, 3064-3074	5.2	10
24	VOx-Pt/Al2O3 catalysts for hydrogen production. *Catalysis Today*, **2017**, 289, 249-257	5.3	10
23	Supported AuCu Alloy Nanoparticles for the Preferential Oxidation of CO (CO-PROX). *ACS Applied Nano Materials*, **2020**, 3, 923-934	5.6	10
22	Cooperative Co /Co Sites Stabilized by a Perovskite Matrix Enable Selective C-O and C-C bond Hydrogenolysis of Oxygenated Arenes. *ChemSusChem*, **2019**, 12, 2171-2175	8.3	9
21	Annealing effects on 5 nm iron oxide nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 3313-7	1.3	9
20	Platinum clusters deposited on maghemite applied to preferential oxidation of CO under hydrogen rich conditions (PROX-CO). *Applied Catalysis A: General*, **2018**, 568, 86-94	5.1	9
19	Transition-Metal Nitride Core@Noble-Metal Shell Nanoparticles as Highly CO Tolerant Catalysts. *Angewandte Chemie*, **2017**, 129, 8954-8959	3.6	8
18	Enhancement of Alkyne Semi-Hydrogenation Selectivity by Electronic Modification of Platinum. *ACS Catalysis*, **2020**, 10, 6763-6770	13.1	8
17	Probing the stability of Pt nanoparticles encapsulated in sol-gel Al 2 O 3 using in situ and ex situ characterization techniques. *Applied Catalysis A: General*, **2014**, 485, 108-117	5.1	8
16	Complex magnetic internal order in structurally disordered Ni nanoparticles. *European Physical Journal B*, **2008**, 66, 503-508	1.2	7
15	Structural, magnetic, and Mossbauer characterization of size-controlled iron-iron oxide nanoparticles obtained by chemical methods. *IEEE Transactions on Magnetics*, **2003**, 39, 2681-2683	2	7
14	Correlation analysis of TEM images of nanocrystal molecules. *Langmuir*, **2008**, 24, 10084-8	4	6

13	Influence of particle size distribution on magnetic properties of nanocrystalline soft magnetic Fe/sub 86/Zr/sub 7/Cu/sub 1/B/sub 6/. *IEEE Transactions on Magnetics*, **2000**, 36, 3430-3432	2	6
12	Concerted Bimetallic Nanocluster Synthesis and Encapsulation via Induced Zeolite Framework Demetallation for Shape and Substrate Selective Heterogeneous Catalysis. *Angewandte Chemie*, **2018**, 130, 6564-6568	3.6	5
11	Au1−xCux colloidal nanoparticles synthesized via a one-pot approach: understanding the temperature effect on the Au : Cu ratio. *RSC Advances*, **2016**, 6, 22213-22221	3.7	5
10	Pretreatment impact on the morphology and the catalytic performance of hybrid heterodimers nanoparticles applied to CO oxidation. *Catalysis Today*, **2017**, 282, 151-158	5.3	5
9	Formation of Bimetallic Copper–Gold Alloy Nanoparticles Probed by in Situ X-ray Absorption Fine Structure Spectroscopy. *European Journal of Inorganic Chemistry*, **2018**, 2018, 3770-3777	2.3	4
8	New Insights on the Growth of Anisotropic Nanoparticles from Total Energy Calculations. *Journal of Physical Chemistry C*, **2009**, 113, 11976-11979	3.8	4
7	CeO2-supported Au and AuCu catalysts for CO oxidation: Impact of activation protocol and residual chlorine on the active sites. *Catalysis Today*, **2020**,	5.3	4
6	Pt-CeO2 Catalysts Synthesized by Glucose Assisted Hydrothermal Method: Impact of Calcination Parameters on the Structural Properties and Catalytic Performance in PROX-CO. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 3405-3412	1.3	4
5	Nanoscience and Nanotechnology Research at the Brazilian National Synchrotron Laboratory (LNLS). *Physica Status Solidi (B): Basic Research*, **2002**, 232, 24-31	1.3	1
4	Linearly polarized Cu K-edge absorption spectroscopy of CuGeO3: Orbital population, band dispersion, and exchange interactions. *Physical Review B*, **1999**, 59, 12450-12456	3.3	1
3	Contribution of Different Species in Ni-Ceria Nanorods Catalysts Applied to Steam Reforming of Ethanol. *ChemistrySelect*, **2021**, 6, 11188-11197	1.8	1
2	The impact of ceria loading on the CuOx-CeO2 interaction and performance of AuCu/CeO2-SiO2 catalysts in CO-PROX reaction. *European Journal of Inorganic Chemistry*,	2.3	1
1	Structural Aspects of Anisotropic Metal Nanoparticle Growth: Experiment and Theory **2012**, 215-238		