

# Daniela Carta

## List of Publications by Year in descending order

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44  
papers

2,093  
citations

279798

23  
h-index

233421

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g-index

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all docs

45  
docs citations

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times ranked

3510  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Structural and Magnetic Investigation of the Inversion Degree in Ferrite Nanocrystals $\text{MFe}_2\text{O}_4$ (M = Mn, Co, Ni). Journal of Physical Chemistry C, 2009, 113, 8606-8615.	3.1	422
2	Chemical recycling of poly(ethylene terephthalate) (pet) by hydrolysis and glycolysis. Environmental Science and Pollution Research, 2003, 10, 390-394.	5.3	165
3	In Situ Structural Changes upon Electrochemical Lithium Insertion in Nanosized Anatase $\text{TiO}_2$ . Journal of Physical Chemistry C, 2010, 114, 1372-1378.	3.1	131
4	Synthesis and structural characterization of $\text{P}_2\text{O}_5\text{-CaO-Na}_2\text{O}$ sol-gel materials. Journal of Non-Crystalline Solids, 2007, 353, 1141-1149.	3.1	101
5	The effect of composition on the structure of sodium borophosphate glasses. Journal of Non-Crystalline Solids, 2008, 354, 3671-3677.	3.1	87
6	Influence of particles alloying on the performances of Pt-Ru/CNT catalysts for selective hydrogenation. Journal of Catalysis, 2011, 278, 59-70.	6.2	84
7	Exploring the Effect of Co Doping in Fine Maghemite Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 8261-8270.	3.1	84
8	A structural study of sol-gel and melt-quenched phosphate-based glasses. Journal of Non-Crystalline Solids, 2007, 353, 1759-1765.	3.1	75
9	Formation and cation distribution in supported manganese ferrite nanoparticles: an X-ray absorption study. Physical Chemistry Chemical Physics, 2008, 10, 3108.	2.8	73
10	Sol-gel synthesis of the $\text{P}_2\text{O}_5\text{-CaO-Na}_2\text{O-SiO}_2$ system as a novel bioresorbable glass. Journal of Materials Chemistry, 2005, 15, 2134.	6.7	69
11	Efficiency Improvement of DSSC Photoanode by Scandium Doping of Mesoporous Titania Beads. Journal of Physical Chemistry C, 2013, 117, 25276-25289.	3.1	69
12	Structural and magnetic characterization of synthetic ferrihydrite nanoparticles. Materials Chemistry and Physics, 2009, 113, 349-355.	4.0	65
13	X-ray Absorption Investigation of the Formation of Cobalt Ferrite Nanoparticles in an Aerogel Silica Matrix. Journal of Physical Chemistry C, 2007, 111, 6308-6317.	3.1	56
14	Sol-gel synthesis and structural characterisation of $\text{P}_2\text{O}_5\text{-B}_2\text{O}_3\text{-Na}_2\text{O}$ glasses for biomedical applications. Journal of Materials Chemistry, 2009, 19, 150-158.	6.7	53
15	$\text{NiFe}_2\text{O}_4$ Nanoparticles Dispersed in an Aerogel Silica Matrix: An X-ray Absorption Study. Journal of Physical Chemistry C, 2008, 112, 15623-15630.	3.1	51
16	Role and Optimization of the Active Oxide Layer in $\text{TiO}_2$ -Based RRAM. Advanced Functional Materials, 2016, 26, 507-513.	14.9	49
17	Structural characterization study of FeCo alloy nanoparticles in a highly porous aerogel silica matrix. Journal of Chemical Physics, 2007, 127, 204705.	3.0	41
18	A high-energy X-ray diffraction, $^{31}\text{P}$ and $^{11}\text{B}$ solid-state NMR study of the structure of aged sodium borophosphate glasses. Materials Chemistry and Physics, 2008, 111, 455-462.	4.0	39

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19	Surface and Electrical Characterization of Ag/AgCl Pseudo-Reference Electrodes Manufactured with Commercially Available PCB Technologies. <i>Sensors</i> , 2015, 15, 18102-18113.	3.8	38
20	Antibacterial Copper-Doped Calcium Phosphate Glasses for Bone Tissue Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6054-6062.	5.2	31
21	Effects of Ar and O <sub>2</sub> Plasma Etching on Parylene C: Topography versus Surface Chemistry and the Impact on Cell Viability. <i>Plasma Processes and Polymers</i> , 2016, 13, 324-333.	3.0	29
22	Structural and Magnetic Characterization of Co and Ni Silicate Hydroxides in Bulk and in Nanostructures within Silica Aerogels. <i>Chemistry of Materials</i> , 2009, 21, 945-953.	6.7	28
23	A multinuclear solid state NMR study of the sol-gel formation of amorphous Nb <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> materials. <i>Solid State Nuclear Magnetic Resonance</i> , 2005, 27, 28-36.	2.3	27
24	The use of advanced diffraction methods in the study of the structure of a bioactive calcia: silica sol-gel glass. <i>Journal of Materials Science: Materials in Medicine</i> , 2006, 17, 1003-1010.	3.6	21
25	Mesoporous Phosphate-Based Glasses Prepared via Sol-Gel. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1428-1437.	5.2	17
26	Mesoporous Strontium-Doped Phosphate-Based Sol-Gel Glasses for Biomedical Applications. <i>Frontiers in Chemistry</i> , 2020, 8, 249.	3.6	16
27	Iron-cobalt nanocrystalline alloy supported on a cubic mesostructured silica matrix: FeCo/SBA-16 porous nanocomposites. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3489-3501.	1.9	15
28	Antibacterial silver-doped phosphate-based glasses prepared by coacervation. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7744-7755.	5.8	15
29	Structural study of highly porous nanocomposite aerogels. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1785-1788.	3.1	13
30	Novel interpretation of the mean structure of ferrosilite. <i>Journal of Solid State Chemistry</i> , 2015, 225, 256-260.	2.9	13
31	Cation distribution and vacancies in nickel cobaltite. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16775-16784.	2.8	13
32	Sol-gel produced sodium calcium phosphosilicates for bioactive applications: Synthesis and structural characterisation. <i>Materials Chemistry and Physics</i> , 2011, 130, 690-696.	4.0	12
33	Copper-Based Catalysts Supported on Highly Porous Silica for the Water Gas Shift Reaction. <i>ChemPlusChem</i> , 2016, 81, 421-432.	2.8	12
34	Cubic Mesoporous Silica (SBA-16) Prepared Using Butanol as the Co-Surfactant: A General Matrix for the Preparation of FeCo-SiO <sub>2</sub> Nanocomposites. <i>ChemPlusChem</i> , 2013, 78, 364-374.	2.8	11
35	Direct sol-gel synthesis of doped cubic mesoporous SBA-16 monoliths. <i>Microporous and Mesoporous Materials</i> , 2014, 194, 157-166.	4.4	11
36	Effect of the Support on the Formation of FeCo Alloy Nanoparticles in an SBA-16 Mesoporous Silica Matrix: An X-ray Absorption Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12353-12365.	3.1	10

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37	Multifunctional phosphate-based glass fibres prepared via electrospinning of coacervate precursors: controlled delivery, biocompatibility and antibacterial activity. <i>Materialia</i> , 2020, 14, 100939.	2.7	9
38	Lanthanide-Doped Scandia and Yttria Cathodoluminescent Films: A Comparative Study. <i>Chemistry of Materials</i> , 2008, 20, 5666-5674.	6.7	8
39	A total X-ray scattering study of MnFe <sub>2</sub> O <sub>4</sub> nanoparticles dispersed in a silica aerogel matrix. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 2600-2603.	3.1	6
40	An X-ray absorption spectroscopy study of FeCo alloy nanoparticles embedded in ordered cubic mesoporous silica (SBA-16). <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 2611-2614.	3.1	6
41	One-Step Preparation of FeCo Nanoparticles in a SBA-16 Matrix as Catalysts for Carbon Nanotubes Growth. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 6735-6746.	0.9	6
42	Structural characterization of FeCo alloy nanoparticles embedded in SBA-16 and their catalytic application for carbon nanotubes production. <i>RSC Advances</i> , 2012, 2, 7886.	3.6	6
43	Neutron diffraction study of antibacterial bioactive calcium silicate sol-gel glasses containing silver. <i>International Journal of Applied Glass Science</i> , 2017, 8, 364-371.	2.0	4
44	Solid State NMR as A Probe of Inorganic Materials: Examples From Glasses and Sol-Gels. <i>Materials Research Society Symposia Proceedings</i> , 2006, 984, 1.	0.1	1