Daniela Carta

List of Publications by Year
in descending order

44 papers	2,093 citations	279798 23 h-index	233421 45 g-index
45 all docs	45 docs citations	45 times ranked	3510 citing authors

#	Article	IF	Citations
1	Mesoporous Strontium-Doped Phosphate-Based Sol-Gel Glasses for Biomedical Applications. Frontiers in Chemistry, 2020, 8, 249.	3.6	16
2	Mesoporous Phosphate-Based Glasses Prepared via Solâ€“Gel. ACS Biomaterials Science and Engineering, 2020, 6, 1428-1437.	5.2	17
3	Multifunctional phosphate-based glass fibres prepared via electrospinning of coacervate precursors: controlled delivery, biocompatibility and antibacterial activity. Materialia, 2020, 14, 100939.	2.7	9
4	Antibacterial Copper-Doped Calcium Phosphate Glasses for Bone Tissue Regeneration. ACS Biomaterials Science and Engineering, 2019, 5, 6054-6062.	5.2	31
5	Antibacterial silver-doped phosphate-based glasses prepared by coacervation. Journal of Materials Chemistry B, 2019, 7, 7744-7755.	5.8	15
6	Cation distribution and vacancies in nickel cobaltite. Physical Chemistry Chemical Physics, 2017, 19, 16775-16784.	2.8	13
7	Neutron diffraction study of antibacterial bioactive calcium silicate solâ€gel glasses containing silver. International Journal of Applied Glass Science, 2017, 8, 364-371.	2.0	4
8	Effects of Ar and O₂ Plasma Etching on Parylene C: Topography versus Surface Chemistry and the Impact on Cell Viability. Plasma Processes and Polymers, 2016, 13, 324-333.	3.0	29
9	Copperâ€Based Catalysts Supported on Highly Porous Silica for the Water Gas Shift Reaction. ChemPlusChem, 2016, 81, 421-432.	2.8	12
10	Role and Optimization of the Active Oxide Layer in TiO₂â€Based RRAM. Advanced Functional Materials, 2016, 26, 507-513.	14.9	49
11	Surface and Electrical Characterization of Ag/AgCl Pseudo-Reference Electrodes Manufactured with Commercially Available PCB Technologies. Sensors, 2015, 15, 18102-18113.	3.8	38
12	Novel interpretation of the mean structure of feroxyhyte. Journal of Solid State Chemistry, 2015, 225, 256-260.	2.9	13
13	Direct solâ€“gel synthesis of doped cubic mesoporous SBA-16 monoliths. Microporous and Mesoporous Materials, 2014, 194, 157-166.	4.4	11
14	Cubic Mesoporous Silica (SBAâ€16) Prepared Using Butanol as the Coâ€Surfactant: A General Matrix for the Preparation of FeCoâ€SiO₂ Nanocomposites. ChemPlusChem, 2013, 78, 364-374.	2.8	11
15	Efficiency Improvement of DSSC Photoanode by Scandium Doping of Mesoporous Titania Beads. Journal of Physical Chemistry C, 2013, 117, 25276-25289.	3.1	69
16	Structural characterization of FeCo alloy nanoparticles embedded in SBA-16 and their catalytic application for carbon nanotubes production. RSC Advances, 2012, 2, 7886.	3.6	6
17	Effect of the Support on the Formation of FeCo Alloy Nanoparticles in an SBA-16 Mesoporous Silica Matrix: An X-ray Absorption Spectroscopy Study. Journal of Physical Chemistry C, 2012, 116, 12353-12365.	3.1	10
18	Exploring the Effect of Co Doping in Fine Maghemite Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 8261-8270.	3.1	84

#	Article	IF	Citations
19	A total X-ray scattering study of MnFe2O4 nanoparticles dispersed in a silica aerogel matrix. Journal of Non-Crystalline Solids, 2011, 357, 2600-2603.	3.1	6
20	An X-ray absorption spectroscopy study of FeCo alloy nanoparticles embedded in ordered cubic mesoporous silica (SBA-16). Journal of Non-Crystalline Solids, 2011, 357, 2611-2614.	3.1	6
21	One-Step Preparation of FeCo Nanoparticles in a SBA-16 Matrix as Catalysts for Carbon Nanotubes Growth. Journal of Nanoscience and Nanotechnology, 2011, 11, 6735-6746.	0.9	6
22	Solâ€“gel produced sodium calcium phosphosilicates for bioactive applications: Synthesis and structural characterisation. Materials Chemistry and Physics, 2011, 130, 690-696.	4.0	12
23	Influence of particles alloying on the performances of Ptâ€“Ru/CNT catalysts for selective hydrogenation. Journal of Catalysis, 2011, 278, 59-70.	6.2	84
24	Ironâ€“cobalt nanocrystalline alloy supported on a cubic mesostructured silica matrix: FeCo/SBA-16 porous nanocomposites. Journal of Nanoparticle Research, 2011, 13, 3489-3501.	1.9	15
25	In Situ Structural Changes upon Electrochemical Lithium Insertion in Nanosized Anatase TiO₂. Journal of Physical Chemistry C, 2010, 114, 1372-1378.	3.1	131
26	Structural and magnetic characterization of synthetic ferrihydrite nanoparticles. Materials Chemistry and Physics, 2009, 113, 349-355.	4.0	65
27	A Structural and Magnetic Investigation of the Inversion Degree in Ferrite Nanocrystals MFe₂O₄ (M = Mn, Co, Ni). Journal of Physical Chemistry C, 2009, 113, 8606-8615.	3.1	422
28	Structural and Magnetic Characterization of Co and Ni Silicate Hydroxides in Bulk and in Nanostructures within Silica Aerogels. Chemistry of Materials, 2009, 21, 945-953.	6.7	28
29	Solâ€“gel synthesis and structural characterisation of P₂O₅â€“B₂O₃â€“Na₂O glasses for biomedical applications. Journal of Materials Chemistry, 2009, 19, 150-158.	6.7	53
30	Formation and cation distribution in supported manganese ferrite nanoparticles: an X-ray absorption study. Physical Chemistry Chemical Physics, 2008, 10, 3108.	2.8	73
31	A high-energy X-ray diffraction, 31P and 11B solid-state NMR study of the structure of aged sodium borophosphate glasses. Materials Chemistry and Physics, 2008, 111, 455-462.	4.0	39
32	NiFe₂O₄Nanoparticles Dispersed in an Aerogel Silica Matrix: An X-ray Absorption Study. Journal of Physical Chemistry C, 2008, 112, 15623-15630.	3.1	51
33	The effect of composition on the structure of sodium borophosphate glasses. Journal of Non-Crystalline Solids, 2008, 354, 3671-3677.	3.1	87
34	Lanthanide-Doped Scandia and Yttria Cathodoluminescent Films: A Comparative Study. Chemistry of Materials, 2008, 20, 5666-5674.	6.7	8
35	Synthesis and structural characterization of P2O5â€“CaOâ€“Na2O solâ€“gel materials. Journal of Non-Crystalline Solids, 2007, 353, 1141-1149.	3.1	101
36	A structural study of solâ€“gel and melt-quenched phosphate-based glasses. Journal of Non-Crystalline Solids, 2007, 353, 1759-1765.	3.1	75

#	Article	IF	Citations
37	Structural study of highly porous nanocomposite aerogels. Journal of Non-Crystalline Solids, 2007, 353, 1785-1788.	3.1	13
38	Structural characterization study of FeCo alloy nanoparticles in a highly porous aerogel silica matrix. Journal of Chemical Physics, 2007, 127, 204705.	3.0	41
39	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
40	The use of advanced diffraction methods in the study of the structure of a bioactive calcia: silica sol-gel glass. Journal of Materials Science: Materials in Medicine, 2006, 17, 1003-1010.	3.6	21
41	Solid State NMR as A Probe of Inorganic Materials:Examples From Glasses and Sol-Gels. Materials Research Society Symposia Proceedings, 2006, 984, 1.	0.1	1
42	A multinuclear solid state NMR study of the solâ€“gel formation of amorphous Nb2O5â€“SiO2 materials. Solid State Nuclear Magnetic Resonance, 2005, 27, 28-36.	2.3	27
43	Solâ€“gel synthesis of the P2O5â€“CaOâ€“Na2Oâ€“SiO2 system as a novel bioresorbable glass. Journal of Materials Chemistry, 2005, 15, 2134.	6.7	69
44	Chemical recycling of poly(ethylene terephthalate) (pet) by hydrolysis and glycolysis. Environmental Science and Pollution Research, 2003, 10, 390-394.	5.3	165