Luz S GÃ³mez-Villalba

List of Publications by Year
in descending order

27 papers	917 citations	687363 13 h-index	552781 26 g-index
28 all docs	28 docs citations	28 times ranked	1008 citing authors

#	Article	IF	Citations
1	Influence of relative humidity on the carbonation of calcium hydroxide nanoparticles and the formation of calcium carbonate polymorphs. Powder Technology, 2011, 205, 263-269.	4.2	165
2	Synthesis, Photocatalytic, and Antifungal Properties of MgO, ZnO and Zn/Mg Oxide Nanoparticles for the Protection of Calcareous Stone Heritage. ACS Applied Materials & Interfaces, 2017, 9, 24873-24886.	8.0	121
3	Influence of porosity and relative humidity on consolidation of dolostone with calcium hydroxide nanoparticles: Effectiveness assessment with non-destructive techniques. Materials Characterization, 2010, 61, 168-184.	4.4	120
4	New nanomaterials for applications in conservation and restoration of stony materials: A review. Materiales De Construccion, 2017, 67, 107.	0.7	106
5	Lime mortar consolidation with nanostructured calcium hydroxide dispersions: the efficacy of different consolidating products for heritage conservation. European Journal of Mineralogy, 2015, 27, 311-323.	1.3	53
6	Structural stability of a colloidal solution of Ca(OH)2 nanocrystals exposed to high relative humidity conditions. Applied Physics A: Materials Science and Processing, 2011, 104, 1249-1254.	2.3	50
7	Synthesis and morpho-structural characterization of nanostructured magnesium hydroxide obtained by a hydrothermal method. Ceramics International, 2014, 40, 12285-12292.	4.8	47
8	Atomic Defects and Their Relationship to Aragoniteâ€“Calcite Transformation in Portlandite Nanocrystal Carbonation. Crystal Growth and Design, 2012, 12, 4844-4852.	3.0	39
9	Nucleation of CaCO3 polymorphs from a colloidal alcoholic solution of Ca(OH)2 nanocrystals exposed to low humidity conditions. Applied Physics A: Materials Science and Processing, 2012, 106, 213-217.	2.3	38
10	Crystal development during carbonation of lime-based mortars in different environmental conditions. Materials Characterization, 2018, 142, 276-288.	4.4	30
11	Short- and Longer-Term Consolidation Effects of Portlandite (CaOH)2 Nanoparticles in Carbonate Stones. Journal of Materials in Civil Engineering, 2013, 25, 1655-1665.	2.9	20
12	Assessment on the performances of air lime-ceramic mortars with nano-Ca(OH)2 and nano-SiO2 additions. Construction and Building Materials, 2020, 232, 117163.	7.2	18
13	Archaeological ceramic amphorae from underwater marine environments: Influence of firing temperature on salt crystallization decay. Journal of the European Ceramic Society, 2013, 33, 2031-2042.	5.7	17
14	Solâ€“gel synthesis of Mg(OH)2 and Ca(OH)2 nanoparticles: a comparative study of their antifungal activity in partially quaternized p(DMAEMA) nanocomposite films. Journal of Sol-Gel Science and Technology, 2019, 89, 310-321.	2.4	12
15	Electroprecipitation of Magnesium and Calcium Compounds for Weathering Protection of Ornamental Rocks. Crystal Growth and Design, 2020, 20, 2337-2355.	3.0	10
16	TEM-HRTEM study on the dehydration process of nanostructured Mgâ€“Ca hydroxide into Mgâ€“Ca oxide. Ceramics International, 2016, 42, 9455-9466.	4.8	9
17	EvaluaciÃ³n del tratamiento de consolidaciÃ³n de dolomÃas mediante nanopartÃculas de hidrÃ³xido de calcio en condiciones de alta humedad relativa. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2011, 50, 85-92.	1.9	9
18	High resolution transmission electron microscopy study on the development of nanostructured precipitates in Alâ€“Cu obtained by mechanical alloying. Materials Chemistry and Physics, 2012, 132, 125-130.	4.0	8

#	Article	IF	Citations
19	Application of magnesium hydroxide nanocoatings on cellulose fibers with different refining degrees. RSC Advances, 2016, 6, 51583-51590.	3.6	7
20	In-situ electrochemical synthesis of inorganic compounds for materials conservation: Assessment of their effects on the porous structure. Ceramics International, 2021, 47, 30406-30424.	4.8	7
21	Correlation between microstructure and cathodoluminescence properties of Mg(OH)₂ (brucite) nanoparticles: effect of synthesis method. CrystEngComm, 2018, 20, 5632-5640.	2.6	6
22	Atomic scale study of the dehydration/structural transformation in micro and nanostructured brucite (Mg(OH)2) particles: Influence of the hydrothermal synthesis conditions. Advanced Powder Technology, 2017, 28, 61-72.	4.1	5
23	TEMâ€“STEM study of europium doped gadolinium oxide nanoparticles synthesized by spray pyrolysis. Advanced Powder Technology, 2013, 24, 864-870.	4.1	4
24	Directed growth of nanoarchitected hybrid phosphor particles synthesized at low temperature. Advanced Powder Technology, 2014, 25, 1442-1448.	4.1	3
25	Inorganic Nanomaterials for the Consolidation and Antifungal Protection of Stone Heritage. , 2018, , 125-149.		3
26	Influence of curing conditions on the mechanical and hydric performance of air-lime mortars with nano-Ca(OH)2 and nano-SiO2 additions. Cement and Concrete Composites, 2022, 132, 104631.	10.7	2
27	Evolution of Câ€“Sâ€“H in lime mortars with nanoparticles: Nanostructural analysis of afwillite growth mechanisms by HRTEM. Journal of the American Ceramic Society, 2022, 105, 5472-5489.	3.8	1