

VÃ-ctor Morales-Florez

List of Publications by Year in descending order

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55
papers

1,225
citations

430874

18
h-index

395702

33
g-index

55
all docs

55
docs citations

55
times ranked

1567
citing authors

#	ARTICLE	IF	CITATIONS
1	Procedure to use phosphogypsum industrial waste for mineral CO ₂ sequestration. Journal of Hazardous Materials, 2011, 196, 431-435.	12.4	99
2	Identification of Adsorption Sites in Cu-BTC by Experimentation and Molecular Simulation. Langmuir, 2009, 25, 1725-1731.	3.5	98
3	Fractionation and fluxes of metals and radionuclides during the recycling process of phosphogypsum wastes applied to mineral CO ₂ sequestration. Waste Management, 2015, 45, 412-419.	7.4	90
4	Electrons in the Band Gap: Spectroscopic Characterization of Anatase TiO ₂ Nanocrystal Electrodes under Fermi Level Control. Journal of Physical Chemistry C, 2012, 116, 11444-11455.	3.1	84
5	Nanoindentation on hybrid organic/inorganic silica aerogels. Journal of the European Ceramic Society, 2007, 27, 3311-3316.	5.7	49
6	How Important is Working with an Ordered Electrode to Improve the Charge Collection Efficiency in Nanostructured Solar Cells?. Journal of Physical Chemistry Letters, 2012, 3, 386-393.	4.6	48
7	Larnite powders and larnite/silica aerogel composites as effective agents for CO ₂ sequestration by carbonation. Journal of Hazardous Materials, 2009, 168, 1397-1403.	12.4	47
8	Combined Effect of Energetic and Spatial Disorder on the Trap-Limited Electron Diffusion Coefficient of Metal-Oxide Nanostructures. Journal of Physical Chemistry C, 2008, 112, 10287-10293.	3.1	44
9	Changes on the nanostructure of cementitious calcium silicate hydrates (C-S-H) induced by aqueous carbonation. Journal of Materials Science, 2012, 47, 764-771.	3.7	40
10	Hydration and carbonation reactions of calcium oxide by weathering: Kinetics and changes in the nanostructure. Chemical Engineering Journal, 2015, 265, 194-200.	12.7	40
11	New method for carbon dioxide mineralization based on phosphogypsum and aluminium-rich industrial wastes resulting in valuable carbonated by-products. Journal of CO ₂ Utilization, 2017, 18, 15-22.	6.8	34
12	Artificial weathering pools of calcium-rich industrial waste for CO ₂ sequestration. Chemical Engineering Journal, 2011, 166, 132-137.	12.7	33
13	Reinforced silica-carbon nanotube monolithic aerogels synthesised by rapid controlled gelation. Journal of Sol-Gel Science and Technology, 2018, 86, 391-399.	2.4	29
14	Electrical conductivity of polycrystalline Mg(OH) ₂ at 2 GPa: effect of grain boundary hydration-dehydration. Physics and Chemistry of Minerals, 2011, 38, 543-556.	0.8	25
15	Water-Dependent Micromechanical and Rheological Properties of Silica Colloidal Crystals Studied by Nanoindentation. Nano Letters, 2012, 12, 4920-4924.	9.1	25
16	Removal of basic yellow cationic dye by an aqueous dispersion of Moroccan stevensite. Applied Clay Science, 2013, 80-81, 46-51.	5.2	25
17	The Cluster Model: A Simulation of the Aerogel Structure as a Hierarchically-Ordered Arrangement of Randomly Packed Spheres. Journal of Sol-Gel Science and Technology, 2005, 35, 203-210.	2.4	20
18	Reactivity of CO ₂ traps in aerogel-wollastonite composites. Journal of Sol-Gel Science and Technology, 2008, 48, 224-230.	2.4	20

#	ARTICLE	IF	CITATIONS
19	Mechanical characterization of sol-gel alumina-based ceramics with intragranular reinforcement of multiwalled carbon nanotubes. <i>Ceramics International</i> , 2020, 46, 19723-19730.	4.8	20
20	Integral Equation Prediction of Reversible Coagulation in Charged Colloidal Suspensions. <i>Langmuir</i> , 2003, 19, 475-482.	3.5	18
21	Bioactivity of wollastonite/aerogels composites obtained from a TEOSâ€“MTES matrix. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 2207-2213.	3.6	18
22	Biodegradable polyester films from renewable aleuritic acid: surface modifications induced by melt-polycondensation in air. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 175601.	2.8	18
23	The cluster model: A hierarchically-ordered assemblage of random-packing spheres for modelling microstructure of porous materials. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 193-198.	3.1	17
24	Spectroscopic properties of electrochemically populated electronic states in nanostructured TiO ₂ films: anatase versus rutile. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13790.	2.8	17
25	Technological Proposals for Recycling Industrial Wastes for Environmental Applications. <i>Minerals (Basel, Switzerland)</i> , 2014, 4, 746-757.	2.0	17
26	Tailoring Organicâ€“Organic Poly(vinylpyrrolidone) Microparticles and Fibers with Multiwalled Carbon Nanotubes for Reinforced Composites. <i>ACS Applied Nano Materials</i> , 2019, 2, 4302-4312.	5.0	17
27	Reactive SPS for solâ€“gel alumina samples: Structure, sintering behavior, and mechanical properties. <i>Journal of the European Ceramic Society</i> , 2021, 41, 5548-5557.	5.7	17
28	Intragranular carbon nanotubes in alumina-based composites for reinforced ceramics. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 90, 162-171.	2.4	15
29	Mechanical properties of ceramics reinforced with allotropic forms of carbon. <i>Progress in Materials Science</i> , 2022, 128, 100966.	32.8	15
30	Colloidal crystals and water: Perspectives on liquidâ€“solid nanoscale phenomena in wet particulate media. <i>Advances in Colloid and Interface Science</i> , 2016, 234, 142-160.	14.7	14
31	SANS study of hybrid silica aerogels under uniaxial compression. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 45, 245-250.	2.4	13
32	Structure of supercritically dried calcium silicate hydrates (Caâ€“Siâ€“H) and structural changes induced by weathering. <i>Journal of Materials Science</i> , 2013, 48, 5022-5028.	3.7	12
33	Aerogels con aplicaciones en biomedicina y medioambiente. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2007, 46, 138-144.	1.9	12
34	Modelos estructurales del empaquetamiento aleatorio de partÃ“culas esfÃ©ricas de Tobermorita: una aproximaciÃ³n computacional sencilla. <i>Materiales De Construccion</i> , 2010, 60, 7-15.	0.7	12
35	Creep and Stress Relaxation of Hybrid Organic-Inorganic Aerogels. <i>Key Engineering Materials</i> , 0, 423, 167-172.	0.4	11
36	Structural models of random packing of spheres extended to bricks: simulation of the nanoporous calcium silicate hydrates. <i>Molecular Simulation</i> , 2009, 35, 1001-1006.	2.0	11

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37	Percolation of the organic phase in hybrid organic-inorganic aerogels. Journal of Sol-Gel Science and Technology, 2009, 50, 170-175.	2.4	10
38	Absorption capacity, kinetics and mechanical behaviour in dry and wet states of hydrophobic DEDMS/TEOS-based silica aerogels. Journal of Sol-Gel Science and Technology, 2017, 81, 600-610.	2.4	10
39	Bioactive organic-inorganic hybrid aerogels. Materials Research Society Symposia Proceedings, 2004, 847, 97.	0.1	8
40	NanoStructured Sonogels. Key Engineering Materials, 0, 391, 45-78.	0.4	8
41	Flue gas adsorption by single-wall carbon nanotubes: A Monte Carlo study. Journal of Chemical Physics, 2016, 145, 074701.	3.0	8
42	Carbon dioxide sequestration by phosphogypsum based procedure. , 2018, , 199-223.		7
43	Propiedades mecánicas de aerogeles híbridos de sílice. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2005, 44, 291-293.	1.9	7
44	Recent insights into xerogel and aerogel mineral composites for CO ₂ mineral sequestration. Journal of Sol-Gel Science and Technology, 2011, 59, 417-423.	2.4	6
45	Rietveld analysis and mechanical properties of in situ formed La ³⁺ -Al ₂ O ₃ /Al ₂ O ₃ composites prepared by sol-gel method. Ceramics International, 2022, 48, 24462-24470.	4.8	6
46	Changes in the structure of composite colloid-polymer xerogels after cold isostatic pressing. Journal of Sol-Gel Science and Technology, 2008, 47, 194-202.	2.4	5
47	Fabrication of Porous Alumina Structures by SPS and Carbon Sacrificial Template for Bone Regeneration. Materials, 2022, 15, 1754.	2.9	5
48	Surface Properties of Anatase TiO ₂ Nanowire Films Grown from a Fluoride-Containing Solution. ChemPhysChem, 2013, 14, 1676-1685.	2.1	4
49	Calcium silicates synthesised from industrial residues with the ability for CO ₂ sequestration. Waste Management and Research, 2014, 32, 1178-1185.	3.9	4
50	Impact of the Solvent Composition on the Structural and Mechanical Properties of Customizable Electrospun Poly(Vinylpyrrolidone) Fiber Mats. Physical Chemistry Chemical Physics, 2021, 23, 22923-22935.	2.8	4
51	Structure of bioactive mixed polymer/colloid aerogels. Journal of Non-Crystalline Solids, 2005, 351, 3347-3355.	3.1	3
52	Mechanical Properties of Bioactive Hybrid Organic/Inorganic Aerogels. Key Engineering Materials, 0, 423, 155-160.	0.4	3
53	Xerogels, Aerogels, and Aerogel/Mineral Composites for CO ₂ Sequestration. , 2016, , 1-20.		2
54	Hybrid aerogels and bioactive aerogels under uniaxial compression: an in situ SAXS study. Revista De Metalurgia, 2010, 46, 143-148.	0.5	1

#	ARTICLE	IF	CITATIONS
55	Advances in Aerogels made by Sonocatalysis. Transactions of the Indian Ceramic Society, 2010, 69, 125-130.	1.0	0