JosÃ© M. CÃ³rdoba

List of Publications by Year
in descending order

69	1,577	236612	329751
papers	citations	25 h-index	37 g-index

69	69	69	1486
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fabrication and characterization of FeCoNiCrMn,(Al) high entropy alloy based (Ti,Ta,Nb)(C,N) cermet. International Journal of Refractory Metals and Hard Materials, 2021, 101, 105694.	1.7	5
2	Synthesis of Mn2+-doped ZnS by a mechanically induced self-sustaining reaction. Journal of Materials Science, 2020, 55, 1603-1613.	1.7	5
3	Thermal stability under laser heating of hot-pressed (Hf1-X ZrX)B2/SiC powder mixtures obtained by mechano-synthesis. Journal of the European Ceramic Society, 2019, 39, 4575-4587.	2.8	4
4	Influence of the preparation method in the metal-support interaction and reducibility of Ni-Mg-Al based catalysts for methane steam reforming. International Journal of Hydrogen Energy, 2019, 44, 19827-19840.	3.8	61
5	Tailoring the Band Gap in the ZnS/ZnSe System: Solid Solutions by a Mechanically Induced Self-Sustaining Reaction. Inorganic Chemistry, 2019, 58, 2565-2575.	1.9	18
6	Synthesis and structural characterization of homochiral coordination polymers with imidazole-based monocarboxylate ligands. Dalton Transactions, 2019, 48, 8731-8739.	1.6	7
7	Fabrication and characterization of WC-HEA cemented carbide based on the CoCrFeNiMn high entropy alloy. Journal of Alloys and Compounds, 2018, 746, 1-8.	2.8	91
8	Effects of milling time, sintering temperature, Al content on the chemical nature, microhardness and microstructure of mechanochemically synthesized FeCoNiCrMn high entropy alloy. Journal of Alloys and Compounds, 2018, 749, 834-843.	2.8	31
9	Effects of additives on the synthesis of TiC N by a solid-gas mechanically induced self-sustaining reaction. Ceramics International, 2018, 44, 7605-7610.	2.3	6
10	Isosymmetric structural phase transition of the orthorhombic lanthanum gallate structure as a function of temperature determined by Rietveld analysis. CrystEngComm, 2018, 20, 5562-5569.	1.3	4
11	Synthesis and characterization of SiC/Si3N4 composites from rice husks. Ceramics International, 2018, 44, 14645-14651.	2.3	13
12	Influence of milling parameters on the solid-gas synthesis of TiCxN1â^'x by mechanically induced self-sustaining reaction. Powder Technology, 2017, 319, 12-18.	2.1	8
13	Structure evolution in the LaMn 1â^'x Fe x O 3+Î´ system by Rietveld analysis. Solid State Ionics, 2017, 303, 132-137.	1.3	7
14	Hot-pressing of (Ti, Mt)(C, N)â€“Coâ€“Mo 2 C (Mt = Ta, Nb) powdered cermets synthesized by a mechanically induced self-sustaining reaction. Chemical Engineering Journal, 2016, 292, 51-61.	6.6	16
15	Kinetics of high-temperature oxidation of (Ti,Ta)(C,N)-based cermets. Corrosion Science, 2016, 102, 168-177.	3.0	43
16	High temperature oxidation resistance of (Ti,Ta)(C,N)-based cermets. Corrosion Science, 2016, 102, 125-136.	3.0	37
17	Toughening of complete solid solution cermets by graphite addition. Chemical Engineering Journal, 2015, 267, 297-305.	6.6	26
18	Nanoindentation of (Ti,Ta)(C,N)â€“Co cermets prepared by methods of mechanochemistry. International Journal of Refractory Metals and Hard Materials, 2015, 49, 219-224.	1.7	3

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19	Photocatalytic Properties of TiO2 Thin Films Modified with Ag and Pt Nanoparticles Deposited by Gas Flow Sputtering. Journal of Nanoscience and Nanotechnology, 2015, 15, 6478-6486.	0.9	2
20	Processing and characterisation of cermet/hardmetal laminates with strong interfaces. Materials & Design, 2014, 58, 226-233.	5.1	12
21	Self-propagating combustion synthesis via an MSR process: An efficient and simple method to prepare (Ti, Zr, Hf)B2â€“Al2O3 powder nanocomposites. Powder Technology, 2014, 256, 244-250.	2.1	13
22	Effect of tantalum content on the microstructure and mechanical behavior of cermets based on (TixTa1â^'x)(C0.5N0.5) solid solutions. Materials & Design, 2014, 53, 435-444.	5.1	33
23	Enhanced oxidation resistance of Ti(C,N)-based cermets containing Ta. Corrosion Science, 2014, 84, 11-20.	3.0	34
24	Spark plasma sintering of TixTa1â^'xC0.5N0.5-based cermets: Effects of processing conditions on chemistry, microstructure and mechanical properties. Chemical Engineering Journal, 2013, 230, 558-566.	6.6	26
25	Effect of sintering time on the microstructure and mechanical properties of (Ti,Ta)(C,N)-based cermets. International Journal of Refractory Metals and Hard Materials, 2013, 38, 73-80.	1.7	22
26	Liquid-phase sintering of Ti(C,N)-based cermets. The effects of binder nature and content on the solubility and wettability of hard ceramic phases. Journal of Alloys and Compounds, 2013, 559, 34-38.	2.8	61
27	In Situ Synthesis of Ceramic Composite Materials in the Tiâ€“Bâ€“Câ€“N System by a Mechanically Induced Selfâ€sustaining Reaction. Journal of the American Ceramic Society, 2012, 95, 2133-2139.	1.9	11
28	Development of multicomponentâ€“multiphase materials based on (Ti,Ta,Nb)CxN1â^'x carbonitride solid solutions. Chemical Engineering Journal, 2012, 192, 58-66.	6.6	21
29	Inverse coreâ€“rim microstructure in (Ti,Ta)(C,N)-based cermets developed by a mechanically induced self-sustaining reaction. International Journal of Refractory Metals and Hard Materials, 2012, 31, 39-46.	1.7	47
30	Absence of the coreâ€“rim microstructure in TixTa1â^'xCyN1â^'y-based cermets developed from a pre-sintered carbonitride master alloy. International Journal of Refractory Metals and Hard Materials, 2012, 33, 38-43.	1.7	24
31	Room temperature mechanosynthesis of the La1â^'Sr MnO3Â± (0â‰¤xâ‰¤1) system and microstructural study. Journal of Solid State Chemistry, 2012, 188, 11-16.	1.4	23
32	Synthesis of a TiCNâ€“SiC polyhedron and elongated crystals nanopowder at low nitrogen concentration. Materials Letters, 2012, 81, 148-150.	1.3	1
33	Low temperature nanocasting of hematite nanoparticles using mesoporous silica molds. Powder Technology, 2012, 217, 269-273.	2.1	5
34	Synthesis of homogeneously dispersed cobalt nanoparticles in the pores of functionalized SBA-15 silica. Powder Technology, 2012, 221, 359-364.	2.1	18
35	Rapid Synthesis of SBA-15 Rods with Variable Lengths, Widths, and Tunable Large Pores. Langmuir, 2011, 27, 4994-4999.	1.6	72
36	Silica SBA-15 Template Assisted Synthesis of Ultrasmall and Homogeneously Sized Copper Nanoparticles. Journal of Nanoscience and Nanotechnology, 2011, 11, 3493-3498.	0.9	4

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37	Magnetic and Electron Spin Relaxation Properties of (GdxY1â^'x)2O3 (0 â‰¤ x â‰¤ 1) Nanoparticles Synthesized by the Combustion Method. Increased Electron Spin Relaxation Times with Increasing Yttrium Content. Journal of Physical Chemistry C, 2011, 115, 5469-5477.	1.5	17
38	Formation of the complete range of Ti5Si3â^'xGex solid solutions via mechanically induced self-sustained reactions. Intermetallics, 2011, 19, 1688-1692.	1.8	2
39	Annealing of Thermally Sprayed Ti2AlC Coatings. International Journal of Applied Ceramic Technology, 2011, 8, 74-84.	1.1	36
40	The Reactivity of Ti2AlC and Ti3SiC2 with SiC Fibers and Powders up to Temperatures of 1550Â°C. Journal of the American Ceramic Society, 2011, 94, 1737-1743.	1.9	40
41	Phase Evaluation in <scp>Al₂O₃</scp> Fiberâ€Reinforced <scp>Ti₂AlC</scp> During Sintering in the 1300Â°Câ€“1500Â°C Temperature Range. Journal of the American Ceramic Society, 2011, 94, 3327-3334.	1.9	22
42	Synthesis of hollow silica spheres SBA-16 with large-pore diameter. Materials Letters, 2011, 65, 1066-1068.	1.3	17
43	Mesoporous silica templated zirconia nanoparticles. Journal of Nanoparticle Research, 2011, 13, 2743-2748.	0.8	5
44	Growth of single crystalline dendritic Li2SiO3 arrays from LiNO3 and mesoporous SiO2. Journal of Solid State Chemistry, 2011, 184, 1735-1739.	1.4	4
45	Mechanochemical synthesis of Ti1â^'xZrxB2 and Ti1â^'xHfxB2 solid solutions. Ceramics International, 2011, 37, 1895-1904.	2.3	31
46	Creep behavior of TiCxN1â^'xâ€“CoTi cermets synthesized by mechanically induced self-sustaining reaction. Journal of the European Ceramic Society, 2011, 31, 299-302.	2.8	4
47	Thermomechanical properties of copperâ€“carbon nanofibre composites prepared by spark plasma sintering and hot pressing. Composites Science and Technology, 2010, 70, 2263-2268.	3.8	53
48	Microstructural characterization of ceramicâ€“intermetallic composites using TEM related techniques. Journal of the European Ceramic Society, 2010, 30, 1765-1774.	2.8	1
49	Influence of synthesis temperature on morphology of SBA-16 mesoporous materials with a three-dimensional pore system. Microporous and Mesoporous Materials, 2010, 129, 106-111.	2.2	39
50	The effects on pore size and particle morphology of heptane additions to the synthesis of mesoporous silica SBA-15. Microporous and Mesoporous Materials, 2010, 133, 66-74.	2.2	58
51	Effect of heat treatment of carbon nanofibres on electroless copper deposition. Composites Science and Technology, 2010, 70, 2269-2275.	3.8	19
52	Mechanosynthesis of Hf_{1â^'x}Zr_xB₂ Solid Solution and Hf_{1â^'x}Zr_xB₂/SiC Composite Powders. Journal of the American Ceramic Society, 2010, 93, 696-702.	1.9	28
53	Spark Plasma Sintering of Ultrafine TiC_xN_{1â^'x} Powders Synthesized by a Mechanically Induced Selfâ€Sustaining Reaction. Journal of the American Ceramic Society, 2010, 93, 2252-2256.	1.9	13
54	Synthesis and characterization of large mesoporous silica SBA-15 sheets with ordered accessible 18Ânm pores. Materials Letters, 2009, 63, 2129-2131.	1.3	31

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55	Growth and characterization of electroless deposited Cu films on carbon nanofibers. Surface and Coatings Technology, 2009, 203, 3459-3464.	2.2	17
56	Properties of Ti(C,N) cermets synthesized by mechanically induced self-sustaining reaction. Journal of the European Ceramic Society, 2009, 29, 1173-1182.	2.8	17
57	Morphology influence of the oxidation kinetics of carbon nanofibers. Corrosion Science, 2009, 51, 926-930.	3.0	15
58	Synthesis of complex carbonitride powders TiyMT1âˆ’yCxN1âˆ’x (MT: Zr, V, Ta, Hf) via a mechanically induced self-sustaining reaction. Journal of Alloys and Compounds, 2009, 482, 349-355.	2.8	28
59	On the Stability of Mg Nanograins to Coarsening after Repeated Melting. Nano Letters, 2009, 9, 3082-3086.	4.5	16
60	New production of TiCxN1âˆ’x-based cermets by one step mechanically induced self-sustaining reaction: Powder synthesis and pressureless sintering. Journal of the European Ceramic Society, 2008, 28, 2085-2098.	2.8	35
61	Nitriding study of titanium silicide intermetallics obtained by mechanical alloying. Intermetallics, 2008, 16, 948-954.	1.8	9
62	Monophasic TiyNb1 âˆ’ yCxN1 âˆ’ xnanopowders obtained at room temperature by MSR. Journal of Materials Chemistry, 2007, 17, 650-653.	6.7	39
63	Monophasic Nanostructured Powders of Niobium, Tantalum, and Hafnium Carbonitrides Synthesized by a Mechanically Induced Self-Propagating Reaction. Journal of the American Ceramic Society, 2007, 90, 381-387.	1.9	69
64	Synthesis of Ti3SiC2Powders: Reaction Mechanism. Journal of the American Ceramic Society, 2007, 90, 825-830.	1.9	39
65	Synthesis of Titanium Carbonitride Phases by Reactive Milling of the Elemental Mixed Powders. Journal of the American Ceramic Society, 2005, 88, 1760-1764.	1.9	51
66	Synthesis of TiN/Si3N4 composite powders by mechanically activated annealing. Journal of Materials Research, 2005, 20, 864-873.	1.2	5
67	High Temperature Mechanical Properties of Ti(C,N)-Co-Mo₂C Cermets. Key Engineering Materials, 0, 423, 83-88.	0.4	2
68	Free Standing AlN Single Crystal Grown on Pre-Patterned and <i>In Situ</i> Patterned 4H-SiC Substrates. Materials Science Forum, 0, 645-648, 1187-1190.	0.3	1
69	Instrumented Indentation of Composite Materials Prepared by Methods of Mechanochemistry. Key Engineering Materials, 0, 606, 241-244.	0.4	0