

Angel L Ortiz

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54
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#	Paper	IF	Citations
169	Composition effects of thermal barrier coating ceramics on their interaction with molten CaMgAl ₁₂ O ₁₉ silicate (CMAS) glass. <i>Acta Materialia</i> , 2012 , 60, 5437-5447	8.4	149
168	Air-plasma-sprayed thermal barrier coatings that are resistant to high-temperature attack by glassy deposits. <i>Acta Materialia</i> , 2010 , 58, 6835-6844	8.4	131
167	Calcium-magnesia-alumino-silicate (CMAS)-induced degradation and failure of air plasma sprayed yttria-stabilized zirconia thermal barrier coatings. <i>Acta Materialia</i> , 2016 , 105, 355-366	8.4	118
166	X-ray diffraction analysis of a severely plastically deformed aluminum alloy. <i>Acta Materialia</i> , 2004 , 52, 2185-2197	8.4	104
165	Densification and porosity evaluation of ZrO ₂ /Y ₂ O ₃ mol.% Y ₂ O ₃ sol-gel thin films. <i>Thin Solid Films</i> , 2004 , 458, 92-97	2.2	86
164	Toughening of super-hard ultra-fine grained B ₄ C densified by spark-plasma sintering via SiC addition. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 1395-1401	6	85
163	Determination of optical properties in nanostructured thin films using the Swanepoel method. <i>Applied Surface Science</i> , 2006 , 252, 6013-6017	6.7	84
162	Influence of preparation conditions in the textural and chemical properties of activated carbons from a novel biomass precursor: the coffee endocarp. <i>Bioresource Technology</i> , 2008 , 99, 7224-31	11	82
161	Porosity Development in Activated Carbons Prepared from Walnut Shells by Carbon Dioxide or Steam Activation. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 7474-7481	3.9	76
160	Wear-resistant ultra-fine-grained ceramics. <i>Acta Materialia</i> , 2005 , 53, 271-277	8.4	74
159	ZrO ₂ /Y ₂ O ₃ Thermal Barrier Coatings Resistant to Degradation by Molten CMAS: Part I, Optical Basicity Considerations and Processing. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3943-3949	3.8	73
158	Interrogation of the microstructure and residual stress of a nickel-base alloy subjected to surface severe plastic deformation. <i>Acta Materialia</i> , 2008 , 56, 413-426	8.4	73
157	Microstructural design of sliding-wear-resistant liquid-phase-sintered SiC: An overview. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 3351-3357	6	63
156	A route for the pressureless liquid-phase sintering of SiC with low additive content for improved sliding-wear resistance. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 965-973	6	61
155	Effect of Microstructure on Sliding-Wear Properties of Liquid-Phase-Sintered SiC. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2159-2163	3.8	60
154	Crystal-size dependence of the spark-plasma-sintering kinetics of ZrB ₂ ultra-high-temperature ceramics. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 271-276	6	59
153	Densification of additive-free polycrystalline SiC by spark-plasma sintering. <i>Ceramics International</i> , 2012 , 38, 45-53	5.1	59

152	Clarifying the effect of sintering conditions on the microstructure and mechanical properties of β -tricalcium phosphate. <i>Ceramics International</i> , 2010 , 36, 1929-1935	5.1	59
151	Additive-free superhard B4C with ultrafine-grained dense microstructures. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 841-848	6	58
150	Experimental study of the microstructure and stress state of shot peened and surface mechanical attrition treated nickel alloys. <i>Scripta Materialia</i> , 2010 , 62, 129-132	5.6	58
149	A direct comparison in the fatigue resistance enhanced by surface severe plastic deformation and shot peening in a C-2000 superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 986-994	5.3	56
148	Hall-Petch relationship in a nanotwinned nickel alloy. <i>Scripta Materialia</i> , 2008 , 58, 951-954	5.6	55
147	Sliding-Wear-Resistant Liquid-Phase-Sintered SiC Processed Using β -SiC Starting Powders. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 541-545	3.8	55
146	Microstructural Evolution in Liquid-Phase-Sintered SiC: Part I, Effect of Starting Powder. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 1578-1584	3.8	53
145	Spark-plasma sintering of ZrB ₂ ultra-high-temperature ceramics at lower temperature via nanoscale crystal refinement. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 2529-2536	6	50
144	Oxidation behaviour of pressureless liquid-phase-sintered β -SiC with additions of 5Al ₂ O ₃ +3RE ₂ O ₃ (RE=La, Nd, Y, Er, Tm, or Yb). <i>Journal of the European Ceramic Society</i> , 2010 , 30, 3209-3217	6	45
143	Novel analytical model for the determination of grain size distributions in nanocrystalline materials with low lattice microstrains by X-ray diffractometry. <i>Acta Materialia</i> , 2006 , 54, 1-10	8.4	45
142	Room temperature one-pot solution synthesis of nanoscale CsSn ₁₃ orthorhombic perovskite thin films and particles. <i>Materials Letters</i> , 2013 , 110, 127-129	3.3	44
141	Effect of liquid-phase content on the contact-mechanical properties of liquid-phase-sintered β -SiC. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 2521-2527	6	42
140	Improved Sliding-Wear Resistance in In Situ-Toughened Silicon Carbide. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 3531-3534	3.8	41
139	Densification of B4C nanopowder with nanograin retention by spark-plasma sintering. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 1991-1998	6	40
138	Crystallite Size Refinement of ZrB ₂ by High-Energy Ball Milling. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 3114-3117	3.8	39
137	Effect of intergranular phase chemistry on the sliding-wear resistance of pressureless liquid-phase-sintered β -SiC. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 511-516	6	38
136	Fabricating geometrically-complex B4C ceramic components by robocasting and pressureless spark plasma sintering. <i>Scripta Materialia</i> , 2018 , 145, 14-18	5.6	37
135	Stability of lithium hydride in argon and air. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 10567-75	3.4	37

134	X-ray powder diffraction analysis of a silicon carbide-based ceramic. <i>Materials Letters</i> , 2001 , 49, 137-145	3.3	37
133	Tensile properties of a nickel-base alloy subjected to surface severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 493, 176-183	5.3	35
132	Quantitative Phase-Composition Analysis of Liquid-Phase-Sintered Silicon Carbide Using the Rietveld Method. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 2282-2286	3.8	35
131	Effect of sintering atmosphere on the mechanical properties of liquid-phase-sintered SiC. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 3245-3249	6	34
130	Anomalous oxidation behaviour of pressureless liquid-phase-sintered SiC. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 2393-2400	6	33
129	A family of hydrogels based on ureido-linked aminopolyol-derived amphiphiles and bolaamphiphiles: synthesis, gelation under thermal and sonochemical stimuli, and mesomorphic characterization. <i>Chemistry - A European Journal</i> , 2008 , 14, 5656-69	4.8	33
128	Enhancing the sliding-wear resistance of SiC nanostructured ceramics by adding carbon nanotubes. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 3083-3089	6	31
127	A comparative study of the tribological performance of ferrofluids and magnetorheological fluids within steel-steel point contacts. <i>Tribology International</i> , 2014 , 78, 125-133	4.9	31
126	Analytical formulation of the variance method of line-broadening analysis for Voigtian X-ray diffraction peaks. <i>Journal of Applied Crystallography</i> , 2006 , 39, 598-600	3.8	31
125	Fabricating toughened super-hard B4C composites at lower temperature by transient liquid-phase assisted spark plasma sintering with MoSi ₂ additives. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 2862-2873	6	30
124	Liquid-phase assisted spark-plasma sintering of SiC nanoceramics and their nanocomposites with carbon nanotubes. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 1929-1936	6	28
123	Liquid-phase assisted flash sintering of SiC from powder mixtures prepared by aqueous colloidal processing. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 485-498	6	28
122	On the crystallite size refinement of ZrB ₂ by high-energy ball-milling in the presence of SiC. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 2407-2414	6	28
121	New acrylic monolithic carbon molecular sieves for O ₂ /N ₂ and CO ₂ /CH ₄ separations. <i>Carbon</i> , 2006 , 44, 1158-1165	10.4	28
120	Tribological behavior of ionic liquid-based magnetorheological fluids in steel and polymeric point contacts. <i>Tribology International</i> , 2015 , 81, 309-320	4.9	27
119	Near-net shape manufacture of B ₄ C _{0.5} and ZrC _{0.5} composites by slip casting and pressureless sintering. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 4577-4584	6	27
118	A study of the oxidation of ZrB ₂ powders during high-energy ball-milling in air. <i>Ceramics International</i> , 2012 , 38, 2857-2863	5.1	27
117	Textural and morphological study of activated carbon fibers prepared from kenaf. <i>Microporous and Mesoporous Materials</i> , 2008 , 111, 523-529	5.3	27

116	Improvement of the Spark-Plasma-Sintering Kinetics of ZrC by High-Energy Ball-Milling. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 453-456	3.8	26
115	Effect of sintering temperature on the microstructure and mechanical properties of ZrO ₂ -3mol%Y ₂ O ₃ sol-gel films. <i>Ceramics International</i> , 2010 , 36, 2281-2286	5.1	26
114	Microstructural Evolution in Liquid-Phase-Sintered SiC: Part III, Effect of Nitrogen-Gas Sintering Atmosphere. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 1835-1840	3.8	26
113	Sliding-wear resistance of liquid-phase-sintered SiC containing graphite nanodispersoids. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 2597-2602	6	25
112	Hardness degradation in liquid-phase-sintered SiC with prolonged sintering. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 3359-3364	6	25
111	On the enhancement of the spark-plasma sintering kinetics of ZrB ₂ /SiC powder mixtures subjected to high-energy co-ball-milling. <i>Ceramics International</i> , 2013 , 39, 4191-4204	5.1	24
110	Aqueous colloidal processing of nano-SiC and its nano-Y ₃ Al ₅ O ₁₂ liquid-phase sintering additives with carbon nanotubes. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3363-3368	6	23
109	Effect of hexagonal-BN additions on the sliding-wear resistance of fine-grained SiC densified with Y ₃ Al ₅ O ₁₂ liquid phase by spark-plasma sintering. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 565-574	6	23
108	Sliding-wear resistance of ultrafine-grained SiC densified by spark plasma sintering with 3Y ₂ O ₃ + 5Al ₂ O ₃ or Y ₃ Al ₅ O ₁₂ additives. <i>Scripta Materialia</i> , 2013 , 69, 598-601	5.6	23
107	High-Energy Ball Milling of ZrB ₂ in the Presence of Graphite. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3072-3075	3.8	23
106	Microstructural Evolution in Liquid-Phase-Sintered SiC: Part II, Effects of Planar Defects and Seeds in the Starting Powder. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 1585-1590	3.8	23
105	Fundamental parameters approach in the Rietveld method: a study of the stability of results versus the accuracy of the instrumental profile. <i>Journal of the European Ceramic Society</i> , 2000 , 20, 1845-1851	6	23
104	Microstructural effects on the sliding wear of transparent magnesium-aluminate spinel. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 3143-3149	6	22
103	Contact-mechanical properties at pre-creep temperatures of fine-grained graphene/SiC composites prepared in situ by spark-plasma sintering. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 1433-1438 ⁶	6	22
102	Synthesis and photocatalytic activity of Eu ³⁺ -doped nanoparticulate TiO ₂ sols and thermal stability of the resulting xerogels. <i>Materials Chemistry and Physics</i> , 2014 , 144, 8-16	4.4	22
101	Aqueous colloidal processing of SiC with Y ₃ Al ₅ O ₁₂ liquid-phase sintering additives. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 1685-1694	6	22
100	Effect of MoSi ₂ content on the lubricated sliding-wear resistance of ZrC/MoSi ₂ composites. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 877-882	6	22
99	The prolific polytypism of silicon carbide. <i>Journal of Applied Crystallography</i> , 2013 , 46, 242-247	3.8	21

98	In situ formation of ZrB ₂ /ZrO ₂ ultra-high-temperature ceramic composites from high-energy ball-milled ZrB ₂ powders. <i>Journal of Alloys and Compounds</i> , 2012 , 518, 38-43	5.7	21
97	Highly sliding-wear resistant B ₄ C composites fabricated by spark-plasma sintering with TiAl additives. <i>Scripta Materialia</i> , 2020 , 177, 91-95	5.6	21
96	Effect of the sintering additive content on the non-protective oxidation behaviour of pressureless liquid-phase-sintered SiC in air. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 1513-1518	6	20
95	Crystallite sizes of LiH before and after ball milling and thermal exposure. <i>Journal of Alloys and Compounds</i> , 2008 , 454, 297-305	5.7	20
94	Quantitative polytype-composition analyses of SiC using X-ray diffraction: a critical comparison between the polymorphic and the Rietveld methods. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 1237-1248	6	20
93	Fracture, fatigue, and sliding-wear behavior of nanocomposites of alumina and reduced graphene-oxide. <i>Acta Materialia</i> , 2020 , 186, 29-39	8.4	20
92	Determination of the thermal stability and isothermal bulk modulus of the ZrO ₂ polymorphs at room temperature by molecular dynamics with a semi-empirical quantum-chemical model. <i>Ceramics International</i> , 2007 , 33, 705-709	5.1	19
91	Complex impedance spectroscopy study of a liquid-phase-sintered SiC ceramic. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 3935-3939	6	19
90	Creep and Microstructural Evolution at High Temperature of Liquid-Phase-Sintered Silicon Carbide. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 163-169	3.8	19
89	Comminution of B ₄ C powders with a high-energy mill operated in air in dry or wet conditions and its effect on their spark-plasma sinterability. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 3873-3884	6	18
88	Contact-mechanical properties at intermediate temperatures of ZrB ₂ ultra-high-temperature ceramics pressureless sintered with Mo, Ta, or Zr disilicides. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3179-3185	6	18
87	CMAS-Resistant Plasma Sprayed Thermal Barrier Coatings Based on Y ₂ O ₃ -Stabilized ZrO ₂ with Al ₃ ⁺ and Ti ₄ ⁺ Solute Additions. <i>Journal of Thermal Spray Technology</i> , 2014 , 23, 708-715	2.5	18
86	Rare earth-doped TiO ₂ nanocrystalline thin films: Preparation and thermal stability. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 4457-4462	6	18
85	Structure determination of di- μ -hydroxo-bis[(2-(2-pyridyl)phenyl-kappa ² N,C1)palladium(II)] by X-ray powder diffractometry. <i>Acta Crystallographica Section B: Structural Science</i> , 2007 , 63, 75-80		18
84	Effect of the nature of the intergranular phase on sliding-wear resistance of liquid-phase-sintered SiC. <i>Scripta Materialia</i> , 2007 , 57, 505-508	5.6	18
83	Reinforcement with reduced graphene oxide of bioactive glass scaffolds fabricated by robocasting. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 3695-3704	6	17
82	Effect of processing conditions on the sliding-wear resistance of ZrC triboceramics fabricated by spark-plasma sintering. <i>Ceramics International</i> , 2015 , 41, 15278-15282	5.1	17
81	Enhancing the spark-plasma sinterability of B ₄ C nanopowders via room-temperature methylation induced purification. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2843-2848	6	17

80	Influence of the synthesis process on the features of Y ₂ O ₃ -stabilized ZrO ₂ powders obtained by the sol-gel method. <i>Ceramics International</i> , 2014 , 40, 6421-6426	5.1	17
79	Microstructural evolution and contact-mechanical properties of SiC ceramics prepared colloiddally with low additive content. <i>Ceramics International</i> , 2012 , 38, 5979-5986	5.1	17
78	Aqueous colloidal processing of near-net shape B ₄ C/Ni cermet compacts. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 1915-1921	6	16
77	Effect of the sintering additive content on the protective passive oxidation behaviour of pressureless liquid-phase-sintered SiC. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 3531-3536	6	16
76	Spark plasma sinterability and dry sliding-wear resistance of WC densified with Co, Co+Ni, and Co+Ni+Cr. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020 , 92, 105280	4.1	15
75	Effect of Er ³⁺ doping on the thermal stability of TiO ₂ nanoparticulate xerogels. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	15
74	Spark-plasma-sintering kinetics of ZrC/BiC powder mixtures subjected to high-energy co-ball-milling. <i>Ceramics International</i> , 2013 , 39, 9691-9697	5.1	15
73	Effect of Ar or N ₂ sintering atmosphere on the high-temperature oxidation behaviour of pressureless liquid-phase-sintered SiC in air. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 119-128	6	15
72	Ceramics of Ta-doping stabilized orthorhombic ZrO ₂ densified by spark plasma sintering and the effect of post-annealing in air. <i>Scripta Materialia</i> , 2017 , 130, 128-132	5.6	14
71	Microstructural effects on the sliding-wear resistance of pressureless liquid-phase-sintered SiC under diesel fuel. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 879-885	6	14
70	Effect of calcination temperature on the textural properties of 3mol% yttria-stabilized zirconia powders. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 175-178	3.9	14
69	Aqueous colloidal processing of submicrometric SiC plus Y ₃ Al ₅ O ₁₂ with diamond nanoparticles. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 2473-2482	6	13
68	Oxidation behavior of pressureless liquid-phase-sintered SiC in ambient air at elevated temperatures. <i>Journal of Materials Research</i> , 2008 , 23, 1689-1700	2.5	13
67	Processing of orthotropic and isotropic superhard B ₄ C composites reinforced with reduced graphene oxide. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3406-3413	6	12
66	Sliding-wear resistance of pure near fully-dense B ₄ C under lubrication with water, diesel fuel, and paraffin oil. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1158-1163	6	12
65	Improving the sliding wear resistance of SiC nanoceramics fabricated by spark plasma sintering via gentle post-sintering annealing. <i>Scripta Materialia</i> , 2014 , 77, 9-12	5.6	12
64	Microstructural development during heat treatment of a commercially available dental-grade lithium disilicate glass-ceramic. <i>Dental Materials</i> , 2019 , 35, 697-708	5.7	12
63	Transient liquid-phase assisted spark-plasma sintering and dry sliding wear of B ₄ C ceramics fabricated from B ₄ C nanopowders. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 1869-1877	6	12

62	Structural-microstructural characterization and optical properties of Eu ³⁺ , Tb ³⁺ -codoped LaPO ₄ ·nH ₂ O and LaPO ₄ nanorods hydrothermally synthesized with microwaves. <i>Ceramics International</i> , 2018 , 44, 11993-12001	5.1	11
61	Microstructural effects on the sliding-wear resistance of ZrC/MoSi ₂ triboceramics fabricated by spark-plasma sintering. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 3091-3097	6	11
60	Carbon nanotubes prevent the coagulation at high shear rates of aqueous suspensions of equiaxed ceramic nanoparticles. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 555-563	6	11
59	Structural-Defect-Controlled Electrochemical Performance of Sodium Ion Batteries with NaCrO ₂ Cathodes. <i>ChemElectroChem</i> , 2017 , 4, 3222-3230	4.3	11
58	Effect of graphite addition on the spark-plasma sinterability of ZrB ₂ and ZrB ₂ /SiC ultra-high-temperature ceramics. <i>Ceramics International</i> , 2014 , 40, 11457-11464	5.1	11
57	Pressureless ultrafast sintering of near-net-shaped superhard isotropic B ₄ C/rGO composites with Ti-Al additives. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 4354-4360	6	11
56	Manufacturing B ₄ C parts with Ti-Al intermetallics by aqueous colloidal processing. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 226-233	6	11
55	Effect of type of solvent alcohol and its molar proportion on the drying critical thickness of ZrO ₂ /mol% Y ₂ O ₃ films prepared by the sol-gel method. <i>Surface and Coatings Technology</i> , 2011 , 205, 3540-3545	4.4	10
54	Structure determination of nitrate-bridged-bis[2-(2-pyridyl-4-yl)amino-5,6-dihydro-4H-1,3-thiazine-4-yl]copper(II) nitrate via molecular modelling coupled with X-ray powder diffractometry. <i>Journal of Applied Crystallography</i> , 2004 , 37, 993-999	3.8	10
53	Improving the dry sliding-wear resistance of B ₄ C ceramics by transient liquid-phase sintering. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 5286-5292	6	10
52	Reinforcing 13-93 bioglass scaffolds fabricated by robocasting and pressureless spark plasma sintering with graphene oxide. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 97, 108-116	4.7	9
51	Microwave-assisted Hydrothermal Synthesis of Single-crystal Nanorods of Rhabdophane-type Sr-doped LaPO ₄ ·nH ₂ O. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 750-758	3.8	9
50	Synthesis, molecular characterization by infrared spectroscopy, and crystal structure determination by X-ray powder diffractometry of [ZnCl ₂ (TdTz)] [TdTz = 2-(3,4-dichlorophenyl)imino-N-(2-thiazin-2-yl)thiazolidine]. <i>Polyhedron</i> , 2005 , 24, 1975-1982	2.7	9
49	Study of the Contributions of Non-Specific and Specific Interactions during Fluoxetine Adsorption onto Activated Carbons. <i>Clean - Soil, Air, Water</i> , 2012 , 40, 698-705	1.6	8
48	Effect of N ₂ sintering atmosphere on the hardness of sol-gel films of 3 mol% Y ₂ O ₃ -stabilized ZrO ₂ . <i>Thin Solid Films</i> , 2010 , 518, 2779-2782	2.2	8
47	X-ray line-broadening study of a liquid-phase-sintered silicon carbide. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 2677-2687	6	8
46	Influence of Nd ³⁺ Doping on the Structure, Thermal Evolution and Photoluminescence Properties of Nanoparticulate TiO ₂ Xerogels. <i>Journal of Alloys and Compounds</i> , 2020 , 819, 152972	5.7	8
45	An in situ and ex situ study of the microstructural evolution of a novel lithium silicate glass-ceramic during crystallization firing. <i>Dental Materials</i> , 2020 , 36, 645-659	5.7	7

44	Hertzian Indentation of a ZrB ₂ B ₃ 0% SiC Ultra-High-Temperature Ceramic up to 800°C in Air. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1848	3.8	7
43	Synthesis and structural characterization of two new copper(II) complexes with thiazoline derivative ligands: Influence of the coordination on the phagocytic activity of human neutrophils. <i>Inorganica Chimica Acta</i> , 2011 , 365, 282-289	2.7	7
42	Crystal structure of [NBu ₄] ₂ [Pd ₂ {C ₄ (COOMe) ₄ } ₂ (EDH) ₂] determined ab initio by charge flipping. <i>Journal of Alloys and Compounds</i> , 2009 , 467, 322-326	5.7	7
41	Effect of ion nitriding on the crystal structure of 3mol% Y ₂ O ₃ -doped ZrO ₂ thin-films prepared by the sol-gel method. <i>Applied Surface Science</i> , 2006 , 252, 6018-6021	6.7	7
40	Effect of Tb ³⁺ doping and self-generated pressure on the crystallographic/morphological features and thermal stability of LaPO ₄ ·nH ₂ O single-crystal nanorods obtained by microwave-assisted hydrothermal synthesis. <i>Ceramics International</i> , 2016 , 42, 18074-18086	5.1	7
39	Synthesis and structural characterization of two bond isomer copper(II) complexes via molecular modeling coupled with X-ray powder diffractometry. <i>Polyhedron</i> , 2011 , 30, 1157-1162	2.7	6
38	Ab initio structural determination of 2-(2-pyridyl)imino-N-(2-thiazolin-2-yl)thiazolidine from powder diffraction data. <i>Materials Letters</i> , 2004 , 58, 672-678	3.3	6
37	Bioinspired design of triboceramics: Learning from the anisotropic micro-fracture response of dental enamel under sliding contact. <i>Ceramics International</i> , 2020 , 46, 27983-27989	5.1	6
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34	Mechanical activation enhanced solid-state synthesis of NaCrO ₂ cathode material. <i>Materialia</i> , 2019 , 5, 100172	3.2	5
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29	Aqueous tape casting of super-hard B ₄ C laminates with rGO-enriched reinforcing interlayers. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 5457-5465	6	4
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20	A critical comparison of the tribocorrosive performance in highly-alkaline wet medium of ultrafine-grained WC cemented carbides with Co, Co+Ni, or Co+Ni+Cr binders. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021 , 95, 105452	4.1	3
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