

Francis Cambier

List of Publications by Year in descending order

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63
papers

1,330
citations

331259

21
h-index

395343

33
g-index

64
all docs

64
docs citations

64
times ranked

1429
citing authors

#	ARTICLE	IF	CITATIONS
1	High temperature mechanical properties of reaction-sintered mullite/zirconia and mullite/alumina/zirconia composites. <i>Journal of Materials Science</i> , 1985, 20, 2533-2540.	1.7	76
2	Shaping of ceramic parts by selective laser melting of powder bed. <i>Journal of Materials Research</i> , 2014, 29, 2086-2094.	1.2	73
3	Processing and properties of biphasic calcium phosphates bioceramics obtained by pressureless sintering and hot isostatic pressing. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1263-1270.	2.8	72
4	Processing and characterization of laser clad NiCrBSi/WC composite coatings – Influence of microstructure on hardness and wear. <i>Surface and Coatings Technology</i> , 2015, 283, 162-171.	2.2	67
5	Densification of alumina by SPS and HP: A comparative study. <i>Journal of the European Ceramic Society</i> , 2012, 32, 1957-1964.	2.8	65
6	High-Temperature Characterization of Reaction-Sintered Mullite-Zirconia Composites. <i>Journal of the American Ceramic Society</i> , 1991, 74, 2476-2481.	1.9	49
7	Processing and properties of transparent hydroxyapatite and β -tricalcium phosphate obtained by HIP process. <i>Ceramics International</i> , 2013, 39, 283-288.	2.3	46
8	Surfactant-assisted ultrasonic spray pyrolysis of nickel oxide and lithium-doped nickel oxide thin films, toward electrochromic applications. <i>Applied Surface Science</i> , 2014, 321, 61-69.	3.1	43
9	Influence of large particle size – up to 1.2 mm – and morphology on wear resistance in NiCrBSi/WC laser clad composite coatings. <i>Surface and Coatings Technology</i> , 2017, 311, 365-373.	2.2	43
10	Macroporous ceramics: Novel route using partial sintering of alumina-powder agglomerates obtained by spray-drying. <i>Ceramics International</i> , 2014, 40, 10197-10203.	2.3	38
11	Multiple scratch tests and surface-related fatigue properties of monolithic ceramics and soda lime glass. <i>Journal of the European Ceramic Society</i> , 2009, 29, 1299-1307.	2.8	37
12	Silicon nitride/silicon carbide nanocomposite obtained by nitridation of SiC: fabrication and high temperature mechanical properties. <i>Journal of the European Ceramic Society</i> , 2003, 23, 2361-2366.	2.8	35
13	Colloidal processing, hot pressing and characterisation of electroconductive MWCNT-alumina composites with compositions near the percolation threshold. <i>Journal of the European Ceramic Society</i> , 2009, 29, 669-675.	2.8	33
14	Thermal conductivity of ceramic/metal composites from preforms produced by freeze casting. <i>Ceramics International</i> , 2016, 42, 14077-14085.	2.3	32
15	Ceramic toughness assessment through edge chipping measurements – Influence of interfacial friction. <i>Journal of the European Ceramic Society</i> , 2009, 29, 2135-2141.	2.8	30
16	Osteoblastic cells colonization inside beta-TCP macroporous structures obtained by ice-templating. <i>Journal of the European Ceramic Society</i> , 2016, 36, 2895-2901.	2.8	29
17	Fracture toughness and residual stress measurements in tempered glass by Hertzian indentation. <i>Acta Materialia</i> , 2007, 55, 2765-2774.	3.8	28
18	Relevance of instrumented micro-indentation for the assessment of hardness and Young's modulus of brittle materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 456, 252-260.	2.6	27

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19	Reaction sintering of ZnO-Al ₂ O ₃ mixtures. Journal of Materials Science, 1981, 16, 539-544.	1.7	25
20	Effect of magnesia additions on the reaction sintering of zircon/alumina mixtures to produce zirconia toughened mullite. Journal of Materials Science Letters, 1983, 2, 772-774.	0.5	23
21	Improved coloration contrast and electrochromic efficiency of tungsten oxide films thanks to a surfactant-assisted ultrasonic spray pyrolysis process. Solar Energy Materials and Solar Cells, 2014, 130, 623-628.	3.0	23
22	Contribution to the understanding of the high temperature behavior and of the compressive creep behavior of silica refractory materials. Journal of the European Ceramic Society, 2015, 35, 813-822.	2.8	22
23	Reaction sintering (RS) of mixed zircon-based powders as a route for producing ceramics containing zirconia with enhanced mechanical properties. Journal of Materials Science Letters, 1983, 2, 366-370.	0.5	21
24	Determination and refinement of the crystal structure of M ₂ SiAlO ₅ N β -phase (M=Y, Er, Yb). Ceramics International, 2000, 26, 105-111.	2.3	21
25	Functionalisation of porous hydroxyapatite for bone substitutes. Journal of the European Ceramic Society, 2012, 32, 2673-2678.	2.8	21
26	Hot isostatic pressing of SiC-platelets/Y-TZP composites. Journal of the European Ceramic Society, 1993, 12, 103-109.	2.8	20
27	Constitution of mullite glasses produced by ultra-rapid quenching of plasma-sprayed melts. Journal of the European Ceramic Society, 1995, 15, 1201-1205.	2.8	20
28	Spark Plasma Sintering: Homogenization of the Compact Temperature Field for Non Conductive Materials. International Journal of Applied Ceramic Technology, 2015, 12, E1.	1.1	19
29	Silicon nitride-silicon carbide nanocomposites prepared by water processing of commercially available powders. Journal of the European Ceramic Society, 1997, 17, 1917-1923.	2.8	16
30	Study of damage of high zirconia fused-cast refractories by measurement of Young's modulus. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 521-522, 221-223.	2.6	16
31	Factors affecting the sintering and the electrical properties of Sr-doped LaCrO ₃ . Journal of the European Ceramic Society, 1994, 14, 359-367.	2.8	15
32	Bulk crystallisation of (00l) oriented fresnoite Sr ₂ TiSi ₂ O ₈ in glass-ceramics of the Sr-Ti-Si-Ba-O system. Journal of Non-Crystalline Solids, 2011, 357, 1079-1084.	1.5	15
33	Bio-inspired hydroxyapatite dual core-shell structure for bone substitutes. Journal of the European Ceramic Society, 2017, 37, 5321-5327.	2.8	14
34	Densification of complex shape ceramics parts by SPS. Journal of the European Ceramic Society, 2020, 40, 2586-2596.	2.8	14
35	Some comments on ceramic solid-state reaction kinetics using results obtained on the ZnO-Al ₂ O ₃ system. Journal of Materials Science, 1981, 16, 1121-1126.	1.7	12
36	Elastic behaviour of zirconium titanate bulk material at room and high temperature. Journal of the European Ceramic Society, 2012, 32, 4083-4089.	2.8	12

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37	Interaction between laser beam and BaTiO ₃ powders in selective laser sintering treatments. Journal of the European Ceramic Society, 2012, 32, 3303-3311.	2.8	12
38	Micropatterning of beta tricalcium phosphate bioceramic surfaces, by femtosecond laser, for bone marrow stem cells behavior assessment. Materials Science and Engineering C, 2019, 95, 371-380.	3.8	12
39	Mechanical properties of silicon nitride-SiC platelet composites. Journal of the European Ceramic Society, 1991, 8, 305-309.	2.8	11
40	Fractographic study of the alumina and zirconia particles embedded in mullite prepared by reaction sintering. Journal of Materials Science, 1986, 21, 4024-4028.	1.7	10
41	Reaction sintering of MgO-TiO ₂ mixtures. Ceramics International, 1982, 8, 77-78.	2.3	9
42	K _{1C} calculations for some mullite-zirconia composites prepared by reaction sintering. Journal of Materials Science Letters, 1985, 4, 1099-1101.	0.5	9
43	Preparation and characterization of a dispersion toughened ceramic for thermomechanical uses (ZTA). Part I: Material preparation. Characterization of microstructure. Journal of the European Ceramic Society, 1992, 9, 169-176.	2.8	9
44	Influence of conductive secondary phase on thermal gradients development during Spark Plasma Sintering (SPS) of ceramic composites. Ceramics International, 2016, 42, 17990-17996.	2.3	9
45	Fractographic and acoustic emission of mullite-alumina-zirconia composites prepared by reaction sintering. Journal of Materials Science, 1987, 22, 4398-4402.	1.7	8
46	Preparation and characterization of a dispersion toughened ceramic for thermomechanical uses (ZTA). Part II: Thermomechanical characterization. Effect of microstructure and temperature on toughening mechanisms. Journal of the European Ceramic Society, 1992, 9, 177-185.	2.8	8
47	Elastic behaviour of zirconium titanate-zirconia bulk composite materials at room and high temperature. Journal of the European Ceramic Society, 2013, 33, 3195-3200.	2.8	8
48	Lighter tableware ceramic by controlling porosity: Effect of porosity on mechanical properties. Ceramics International, 2014, 40, 763-770.	2.3	8
49	Processing of a glass ceramic surface by selective focused beam laser treatment. Ceramics International, 2016, 42, 1720-1727.	2.3	8
50	Femtosecond laser impact on calcium phosphate bioceramics assessed by micro-Raman spectroscopy and osteoblastic behaviour. Journal of the European Ceramic Society, 2018, 38, 5545-5553.	2.8	8
51	Thermal expansion of zircon-alumina materials prepared by reaction sintering. Journal of Materials Science, 1981, 16, 825-828.	1.7	7
52	Ceramic powders containing tetragonal zirconia prepared by a sol-gel route. Journal of Materials Science Letters, 1984, 3, 124-126.	0.5	7
53	Toughness (K _{1C}) Measurement by a Sliding Indentation Method. Key Engineering Materials, 2001, 206-213, 629-632.	0.4	6
54	Alumina Porous Ceramics Obtained by Freeze Casting: Structure and Mechanical Behaviour under Compression. Ceramics, 2018, 1, 83-97.	1.0	6

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55	Microstructural design of ceramics for bone regeneration. Journal of the European Ceramic Society, 2020, 40, 2555-2565.	2.8	5
56	Ceramic Matrix Composites: Properties and Applications. , 1991, , 109-125.		4
57	Reduction of VOC released by pore-forming precursors during firing of clay ceramic. Journal of Cleaner Production, 2005, 13, 1131-1138.	4.6	3
58	Processing and properties of calcium phosphates bioceramics by hot isostatic pressing. MATEC Web of Conferences, 2013, 7, 04020.	0.1	3
59	Correspondence analysis for describing the morphology of powders. Application to a commercial alumina powder. Acta Metallurgica, 1983, 31, 893-902.	2.1	2
60	A novel method to determine the R-curve behaviour of ceramic materials: Application to a ceria-partially stabilized zirconia. Journal of the European Ceramic Society, 1993, 12, 71-77.	2.8	2
61	Reinforcement effect of textured GnPs on advanced ceramics densified by SPS. Journal of the European Ceramic Society, 2020, 40, 2613-2622.	2.8	2
62	High Temperature Mechanical Behaviour of Mullite-Zirconia Composites Obtained by Reaction Sintering. , 1989, , 137-151.		2
63	Hot isostatic pressing of platelet reinforced zirconia composites. , 1994, , 397-403.		0