Jos Mf Ferreira

List of Publications by Citations

482 papers	15,469 citations	63 h-index	90 g-index
500 ext. papers	17,029 ext. citations	5 avg, IF	6.74 L-index

#	Paper	IF	Citations
482	Processing of porous ceramics by starch consolidation. *Journal of the European Ceramic Society*, **1998**, 18, 131-140	6	407
481	An in vitro biological and anti-bacterial study on a sol-gel derived silver-incorporated bioglass system. *Dental Materials*, **2008**, 24, 1343-51	5.7	200
480	Development and in vitro characterization of sol-gel derived CaO-P2O5-SiO2-ZnO bioglass. *Acta Biomaterialia*, **2007**, 3, 255-62	10.8	175
479	Scaffolds for bone restoration from cuttlefish. *Bone*, **2005**, 37, 850-7	4.7	158
478	Preparation and characterization of foams from sheet glass and fly ash using carbonates as foaming agents. *Ceramics International*, **2009**, 35, 229-235	5.1	152
477	Hydrothermal Synthesis of Nanosized Titania Powders: Influence of Peptization and Peptizing Agents on the Crystalline Phases and Phase Transitions. *Journal of the American Ceramic Society*, **2000**, 83, 1361-1368	3.8	150
476	Structural analysis and devitrification of glasses based on the CaO-MgO-SiO2 system with B2O3, Na2O, CaF2 and P2O5 additives. *Journal of Non-Crystalline Solids*, **2006**, 352, 322-328	3.9	143
475	Influence of particle size distribution on rheology and particle packing of silica-based suspensions. *Powder Technology*, **2004**, 139, 69-75	5.2	138
474	Formation of hydroxyapatite onto glasses of the CaO-MgO-SiO2 system with B2O3, Na2O, CaF2 and P2O5 additives. *Biomaterials*, **2006**, 27, 1832-40	15.6	132
473	Combustion synthesis of ternary carbide Ti3AlC2 in Ti-Al-C system. *Journal of the European Ceramic Society*, **2003**, 23, 567-574	6	125
472	Thermal conductivity of highly porous mullite material. *Acta Materialia*, **2005**, 53, 3313-3318	8.4	124
471	Synthesis and characterization of magnesium substituted biphasic mixtures of controlled hydroxyapatite/tricalcium phosphate ratios. *Journal of Solid State Chemistry*, **2005**, 178, 3190-3196	3.3	120
470	Physicochemical Mechanism for the Continuous Reaction of Al2O3-Modified Aluminum Powder with Water. *Journal of the American Ceramic Society*, **2007**, 90, 1521-1526	3.8	118
469	Effects of rare-earth (Er, La and Yb) doping on morphology and structure properties of ZnO nanostructures prepared by wet chemical method. *Ceramics International*, **2014**, 40, 523-529	5.1	114
468	Cationic Substitutions in Hydroxyapatite: Current Status of the Derived Biofunctional Effects and Their In Vitro Interrogation Methods. *Materials*, **2018**, 11,	3.5	114
467	Corrosion aspects of metallic implants - An overview. *Materials and Corrosion - Werkstoffe Und Korrosion*, **2008**, 59, 855-869	1.6	113
466	Synthesis and structural characterization of strontium- and magnesium-co-substituted beta-tricalcium phosphate. *Acta Biomaterialia*, **2010**, 6, 571-6	10.8	109

465	Hydrothermal synthesis of TiO2 nanopowders from tetraalkylammonium hydroxide peptized sols. *Materials Science and Engineering C*, **2001**, 15, 183-185	8.3	109
464	Ionic Substitutions in Biphasic Hydroxyapatite and Tricalcium Phosphate Mixtures: Structural Analysis by Rietveld Refinement. *Journal of the American Ceramic Society*, **2007**, 91, 1-12	3.8	107
463	Incorporation of wastes from granite rock cutting and polishing industries to produce roof tiles. *Journal of the European Ceramic Society*, **2009**, 29, 23-30	6	106
462	Robocasting of 45S5 bioactive glass scaffolds for bone tissue engineering. *Journal of the European Ceramic Society*, **2014**, 34, 107-118	6	104
461	Hydrogen-Generation Materials for Portable Applications. *Journal of the American Ceramic Society*, **2008**, 91, 3825-3834	3.8	104
460	Incorporation of granite cutting sludge in industrial porcelain tile formulations. *Journal of the European Ceramic Society*, **2004**, 24, 3177-3185	6	103
459	Bioactive Glasses and Glass-Ceramics for Healthcare Applications in Bone Regeneration and Tissue Engineering. *Materials*, **2018**, 11,	3.5	101
458	Hydroxyapatite nano-powders produced hydrothermally from nacreous material. *Journal of the European Ceramic Society*, **2006**, 26, 3639-3646	6	98
457	Suitability evaluation of sol-gel derived Si-substituted hydroxyapatite for dental and maxillofacial applications through in vitro osteoblasts response. *Dental Materials*, **2008**, 24, 1374-80	5.7	96
456	Modification of Surface Charge Properties during Kaolinite to Halloysite-7 Transformation. *Journal of Colloid and Interface Science*, **1999**, 210, 360-366	9.3	95
455	Non-isothermal crystallization kinetic studies on MgOAl2O3SiO2TiO2 glass. *Journal of Non-Crystalline Solids*, **2007**, 353, 2383-2391	3.9	94
454	Wood-cement composites: a review. *European Journal of Wood and Wood Products*, **2004**, 62, 370-377	2.1	93
453	Synthesis of glass eramics in the CaOMgOSiO2 system with B2O3, P2O5, Na2O and CaF2 additives. *Journal of the European Ceramic Society*, **2006**, 26, 1463-1471	6	90
452	Synthesis and Mechanical Performance of Biological-like Hydroxyapatites. *Chemistry of Materials*, **2006**, 18, 2181-2186	9.6	90
451	Processing of porous cordierite bodies by starch consolidation. *Materials Research Bulletin*, **1998**, 33, 1439-1448	5.1	89
450	Synthesis and Thermal Stability of Hydroxyapatite Tricalcium Phosphate Composites with Cosubstituted Sodium, Magnesium, and Fluorine. *Chemistry of Materials*, **2006**, 18, 198-203	9.6	88
449	Hydrothermal Synthesis of Nanosized Titania Powders: Influence of Tetraalkyl Ammonium Hydroxides on Particle Characteristics. *Journal of the American Ceramic Society*, **2004**, 84, 1696-1702	3.8	88
448	Influence of strontium on structure, sintering and biodegradation behaviour of CaO-MgO-SrO-SiO(2)-P(2)O(5)-CaF(2) glasses. *Acta Biomaterialia*, **2011**, 7, 4071-80	10.8	87

447	Influence of the stabilising mechanism and solid loading on slip casting of alumina. *Journal of the European Ceramic Society*, **1998**, 18, 479-486	6	87
446	Porous bioactive calcium carbonate implants processed by starch consolidation. *Materials Science and Engineering C*, **2000**, 11, 35-40	8.3	84
445	Nucleation and crystal growth in commercial LAS compositions. *Journal of the European Ceramic Society*, **2001**, 21, 1187-1194	6	83
444	Fluorine-substituted hydroxyapatite scaffolds hydrothermally grown from aragonitic cuttlefish bones. *Acta Biomaterialia*, **2007**, 3, 243-9	10.8	82
443	Mechanically stable antimicrobial chitosan-PVA-silver nanocomposite coatings deposited on titanium implants. *Carbohydrate Polymers*, **2015**, 121, 37-48	10.3	81
442	Sol gel derived SiO(2)-CaO-MgO-P(2)O(5) bioglass system--preparation and in vitro characterization. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2007**, 83, 546-53	3.5	81
441	Fabrication of Highly Porous Mullite Materials. *Journal of the American Ceramic Society*, **2005**, 88, 777-779	3.8	80
440	Fabrication of hydroxyapatite bodies by uniaxial pressing from a precipitated powder. *Biomaterials*, **2001**, 22, 583-8	15.6	79
439	Manufacturing and bending behaviour of in situ foam-filled aluminium alloy tubes. *Materials & Design*, **2015**, 66, 532-544		78
438	Aluminosilicate-based sealants for SOFCs and other electrochemical applications□A brief review. *Journal of Power Sources*, **2013**, 242, 486-502	8.9	78
437	Synthesis, mechanical and biological characterization of ionic doped carbonated hydroxyapatite/□tricalcium phosphate mixtures. *Acta Biomaterialia*, **2011**, 7, 1835-43	10.8	78
436	Alkali-free bioactive glasses for bone tissue engineering: a preliminary investigation. *Acta Biomaterialia*, **2012**, 8, 361-72	10.8	77
435	Hydroxyapatite ceramic bodies with tailored mechanical properties for different applications. *Journal of Biomedical Materials Research Part B*, **2002**, 60, 159-66		77
434	On the Titania Phase Transition by Zirconia Additive in a Sol-Gel-Derived Powder. *Materials Research Bulletin*, **1998**, 33, 389-394	5.1	76
433	A simple recipe for direct writing complex 45S5 Bioglass□ 3D scaffolds. *Materials Letters*, **2013**, 93, 68-71	3.3	75
432	Composite and Nanocomposite Metal Foams. *Materials*, **2016**, 9,	3.5	75
431	Er doped ZnO nanoplates: Synthesis, optical and dielectric properties. *Ceramics International*, **2014**, 40, 1635-1639	5.1	71
430	Newly developed Sr-substituted alpha-TCP bone cements. *Acta Biomaterialia*, **2010**, 6, 928-35	10.8	71

429	Stable glass-ceramic sealants for solid oxide fuel cells: Influence of Bi2O3 doping. *International Journal of Hydrogen Energy*, **2010**, 35, 6911-6923	6.7	70
428	Effect of sintering temperature on mechanical and microstructural properties of bovine hydroxyapatite (BHA). *Journal of Sol-Gel Science and Technology*, **2006**, 37, 111-115	2.3	70
427	Inhibitory effect of the Al2O3–SiO2 mixed additives on the anatase–rutile phase transformation. *Materials Letters*, **1998**, 36, 320-324	3.3	68
426	Synthesis and thermal stability of potassium substituted hydroxyapatites and hydroxyapatite/β-tricalciumphosphate mixtures. *Ceramics International*, **2007**, 33, 1489-1494	5.1	68
425	The effect of Cr2O3 addition on crystallization and properties of La2O3-containing diopside glass-ceramics. *Acta Materialia*, **2008**, 56, 3065-3076	8.4	68
424	Preparation and characterization of high compressive strength foams from sheet glass. *Journal of Porous Materials*, **2006**, 13, 133-139	2.4	68
423	Biological responses of brushite-forming Zn- and ZnSr- substituted beta-tricalcium phosphate bone cements. *European Cells and Materials*, **2010**, 20, 162-77	4.3	67
422	Formation of Strontium-Stabilized β-Tricalcium Phosphate from Calcium-Deficient Apatite. *Journal of the American Ceramic Society*, **2006**, 89, 3277-3280	3.8	66
421	Controlling hydrolysis and dispersion of AlN powders in aqueous media. *Journal of Colloid and Interface Science*, **2003**, 261, 456-63	9.3	66
420	Impedance analysis of 0.5Ba(Zr0.2Ti0.8)O3–0.5(Ba0.7Ca0.3)TiO3 ceramics consolidated from micro-granules. *Ceramics International*, **2014**, 40, 10593-10600	5.1	65
419	Preparation of size-controlled nanoparticles of magnetite. *Journal of Magnetism and Magnetic Materials*, **2012**, 324, 1753-1757	2.8	63
418	Processing of aqueous tape-casting of alumina with acrylic emulsion binders. *Journal of the European Ceramic Society*, **1998**, 18, 311-321	6	63
417	Influence of particle size distribution on colloidal processing of alumina. *Journal of the European Ceramic Society*, **1998**, 18, 249-253	6	63
416	Synergy of polysaccharide mixtures in gelcasting of alumina. *Journal of the European Ceramic Society*, **2000**, 20, 423-429	6	63
415	Effect of sodium addition on the preparation of hydroxyapatites and biphasic ceramics. *Ceramics International*, **2008**, 34, 7-13	5.1	62
414	Hydroxyapatite scaffolds hydrothermally grown from aragonitic cuttlefish bones. *Journal of Materials Chemistry*, **2005**, 15, 5007		62
413	Effect of Al2O3 and K2O content on structure, properties and devitrification of glasses in the Li2O–SiO2 system. *Journal of the European Ceramic Society*, **2010**, 30, 2017-2030	6	61
412	Layered growth of Ti2AlC and Ti3AlC2 in combustion synthesis. *Materials Letters*, **2007**, 61, 779-784	3.3	61

411	Colloidal processing of hydroxyapatite. *Biomaterials*, **2001**, 22, 1847-52	15.6	61
410	Synthesis and mechanical behaviour of chlorapatite and chlorapatite/β-TCP composites. *Journal of the European Ceramic Society*, **2007**, 27, 2287-2294	6	60
409	Structural and dielectric properties of Al-doped ZnO nanostructures. *Ceramics International*, **2014**, 40, 6031-6036	5.1	59
408	Fabrication of porous hydroxyapatite bodies by a new direct consolidation method: starch consolidation. *Journal of Biomedical Materials Research Part B*, **2002**, 60, 232-40		59
407	The use of egg shells to produce Cathode Ray Tube (CRT) glass foams. *Ceramics International*, **2013**, 39, 9071-9078	5.1	58
406	Hydrothermal growth of hydroxyapatite scaffolds from aragonitic cuttlefish bones. *Journal of Biomedical Materials Research - Part A*, **2006**, 77, 160-8	5.4	58
405	Influence of the annealing temperatures on the photoluminescence of KCaBO3:Eu3+ phosphor. *RSC Advances*, **2012**, 2, 8768	3.7	56
404	Aqueous precipitation method for the formation of Mg-stabilized β-tricalcium phosphate: An X-ray diffraction study. *Ceramics International*, **2007**, 33, 637-641	5.1	56
403	Dielectrical Properties of CeO2 Nanoparticles at Different Temperatures. *PLoS ONE*, **2015**, 10, e0122989	3.7	55
402	The structural and optical constants of Ag2S semiconductor nanostructure in the Far-Infrared. *Chemistry Central Journal*, **2015**, 9, 28		55
401	Biphasic calcium phosphate scaffolds fabricated by direct write assembly: Mechanical, anti-microbial and osteoblastic properties. *Journal of the European Ceramic Society*, **2017**, 37, 359-368	6	55
400	Bioresorbable Plates and Screws for Clinical Applications: A Review. *Journal of Healthcare Engineering*, **2012**, 3, 243-260	3.7	55
399	Development of porous HAp and β-TCP scaffolds by starch consolidation with foaming method and drug-chitosan bilayered scaffold based drug delivery system. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 2955-69	4.5	55
398	Effects of Mn-doping on the structure and biological properties of β-tricalcium phosphate. *Journal of Inorganic Biochemistry*, **2014**, 136, 57-66	4.2	54
397	Microstructure and thermal conductivity of porous ZrO2 ceramics. *Acta Materialia*, **2007**, 55, 3663-3669	8.4	53
396	Development of ceramic floor tile compositions based on quartzite and granite sludges. *Journal of the European Ceramic Society*, **2007**, 27, 4649-4655	6	53
395	Low temperature synthesis of anorthite based glass-ceramics via sintering and crystallization of glass-powder compacts. *Journal of the European Ceramic Society*, **2006**, 26, 2503-2510	6	53
394	The role of P2O5, TiO2 and ZrO2 as nucleating agents on microstructure and crystallization behaviour of lithium disilicate-based glass. *Journal of Materials Science*, **2013**, 48, 765-773	4.3	52

393	Role of glass structure in defining the chemical dissolution behavior, bioactivity and antioxidant properties of zinc and strontium co-doped alkali-free phosphosilicate glasses. *Acta Biomaterialia*, **2014**, 10, 3264-78	10.8	52
392	Synthesis and Structure Refinement of Zinc-Doped Tricalcium Phosphate Powders. *Journal of the American Ceramic Society*, **2009**, 92, 1592-1595	3.8	52
391	Optimization of La2O3-containing diopside based glass-ceramic sealants for fuel cell applications. *Journal of Power Sources*, **2009**, 189, 1032-1043	8.9	52
390	Electrochemical and structural evaluation of functionally graded bioglass-apatite composites electrophoretically deposited onto Ti6Al4V alloy. *Electrochimica Acta*, **2009**, 54, 1192-1198	6.7	52
389	A novel approach to prepare aluminium-alloy foams reinforced by carbon-nanotubes. *Materials Letters*, **2015**, 160, 162-166	3.3	51
388	A facile electrodeposition of hydroxyapatite onto borate passivated surgical grade stainless steel. *Corrosion Science*, **2011**, 53, 2328-2334	6.8	51
387	Development of porous ceramic bodies for applications in tissue engineering and drug delivery systems. *Materials Research Bulletin*, **2004**, 39, 83-91	5.1	51
386	Bioglass implant-coating interactions in synthetic physiological fluids with varying degrees of biomimicry. *International Journal of Nanomedicine*, **2017**, 12, 683-707	7.3	50
385	Influence of setting liquid composition and liquid-to-powder ratio on properties of a Mg-substituted calcium phosphate cement. *Acta Biomaterialia*, **2009**, 5, 1233-40	10.8	50
384	Influence of processing route on microstructure and mechanical properties of MgAl2O4 spinel. *Ceramics International*, **2010**, 36, 473-482	5.1	50
383	Environmental friendly management of CRT glass by foaming with waste egg shells, calcite or dolomite. *Ceramics International*, **2014**, 40, 13371-13379	5.1	49
382	Novel route for rapid sol-gel synthesis of hydroxyapatite, avoiding ageing and using fast drying with a 50-fold to 200-fold reduction in process time. *Materials Science and Engineering C*, **2017**, 70, 796-804	8.3	49
381	Structural analysis and thermal behavior of diopside-fluorapatite-wollastonite-based glasses and glass-ceramics. *Acta Biomaterialia*, **2010**, 6, 4380-8	10.8	49
380	Synthesis of hydroxy-chlorapatites solid solutions. *Materials Letters*, **2006**, 60, 864-868	3.3	49
379	Synthesis and thermal stability of sodium, magnesium co-substituted hydroxyapatites. *Journal of Materials Chemistry*, **2006**, 16, 286-291		49
378	Far-infrared optical constants of ZnO and ZnO/Ag nanostructures. *RSC Advances*, **2014**, 4, 20902-20908	3.7	48
377	Aqueous Colloidal Processing of ZTA Composites. *Journal of the American Ceramic Society*, **2009**, 92, 9-16	3.8	48
376	Novel synthesis and structural characterization of fluorine and chlorine co-substituted hydroxyapatites. *Journal of Inorganic Biochemistry*, **2006**, 100, 1692-7	4.2	48

375	Sol–gel derived fluoridated hydroxyapatite films. *Materials Research Bulletin*, **2003**, 38, 89-97	5.1	47
374	Structural role of zinc in biodegradation of alkali-free bioactive glasses. *Journal of Materials Chemistry B*, **2013**, 1, 3073-3082	7.3	46
373	Effect of Solids Loading on Slip-Casting Performance of Silicon Carbide Slurries. *Journal of the American Ceramic Society*, **2004**, 82, 1993-2000	3.8	46
372	KCa4(BO3)3:Ln3+ (Ln = Dy, Eu, Tb) phosphors for near UV excited white–light–emitting diodes. *AIP Advances*, **2013**, 3, 022126	1.5	45
371	A study on the aqueous dispersion mechanism of CuO powders using Tiron. *Journal of Colloid and Interface Science*, **2009**, 330, 119-24	9.3	45
370	3D chitosan-gelatin-chondroitin porous scaffold improves osteogenic differentiation of mesenchymal stem cells. *Biomedical Materials (Bristol)*, **2007**, 2, 124-31	3.5	45
369	Porous glass reinforced hydroxyapatite materials produced with different organic additives. *Journal of Non-Crystalline Solids*, **2002**, 304, 286-292	3.9	45
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367	Mechanical and lamination properties of alumina green tapes obtained by aqueous tape-casting. *Journal of the European Ceramic Society*, **1999**, 19, 2867-2873	6	44
366	Electrophoretic bilayer deposition of zirconia and reinforced bioglass system on Ti6Al4V for implant applications: an in vitro investigation. *Materials Science and Engineering C*, **2013**, 33, 4160-6	8.3	43
365	Study of calcium–magnesium–aluminum–silicate (CMAS) glass and glass-ceramic sealant for solid oxide fuel cells. *Journal of Power Sources*, **2013**, 231, 203-212	8.9	43
364	Synthesis and properties of lithium disilicate glass-ceramics in the system SiO2–Al2O3–K2O–Li2O. *Ceramics International*, **2009**, 35, 3013-3019	5.1	43
363	Production and characterisation of glass ceramic foams from recycled raw materials. *Advances in Applied Ceramics*, **2009**, 108, 9-13	2.3	43
362	Effect of Ca/P ratio of precursors on the formation of different calcium apatitic ceramics—An X-ray diffraction study. *Scripta Materialia*, **2005**, 53, 1259-1262	5.6	43
361	Permeability of diatomite layers processed by different colloidal techniques. *Journal of the European Ceramic Society*, **2000**, 20, 201-207	6	42
360	Influence of Mg-doping, calcium pyrophosphate impurities and cooling rate on the allotropic α-m –tricalcium phosphate phase transformations. *Journal of the European Ceramic Society*, **2016**, 36, 817-827	6	41
359	An effective approach to reinforced closed-cell Al-alloy foams with multiwalled carbon nanotubes. *Carbon*, **2015**, 95, 589-600	10.4	40
358	Strong bonding between sputtered bioglass–ceramic films and Ti-substrate implants induced by atomic inter-diffusion post-deposition heat-treatments. *Applied Surface Science*, **2013**, 280, 530-538	6.7	40

357	Crystallization behaviour of Li2OZnOSiO2 glass□ceramics system. *Ceramics International*, **2007**, 33, 863-867	5.1	40
356	In Situ Formation and Characterization of Flourine-Substituted Biphasic Calcium Phosphate Ceramics of Varied F-HAP/□TCP Ratios. *Chemistry of Materials*, **2005**, 17, 3065-3068	9.6	40
355	Effect of dispersant on the rheological properties and slip casting of concentrated sialon precursor suspensions. *Journal of the European Ceramic Society*, **2003**, 23, 1525-1530	6	40
354	MoSi2/Al2O3 FGM: elaboration by tape casting and SHS. *Journal of the European Ceramic Society*, **2001**, 21, 2353-2360	6	40
353	Biocompatibility and antimicrobial activity of biphasic calcium phosphate powders doped with metal ions for regenerative medicine. *Ceramics International*, **2017**, 43, 15719-15728	5.1	39
352	Structure, surface reactivity and physico-chemical degradation of fluoride containing phospho-silicate glasses. *Journal of Materials Chemistry*, **2011**, 21, 8074		39
351	Synthesis, bioactivity and preliminary biocompatibility studies of glasses in the system CaO-MgO-SiO2-Na2O-P2O5-CaF2. *Journal of Materials Science: Materials in Medicine*, **2011**, 22, 217-27	4.5	39
350	Brushite-Forming Mg-, Zn- and Sr-Substituted Bone Cements for Clinical Applications. *Materials*, **2010**, 3, 519-535	3.5	39
349	Influence of raw material type and of the overall chemical composition on phase formation and sintered microstructure of mullite aggregates. *Ceramics International*, **2009**, 35, 2007-2015	5.1	39
348	Surface passivation of MgAl2O4 spinel powder by chemisorbing H3PO4 for easy aqueous processing. *Langmuir*, **2008**, 24, 9525-30	4	39
347	Effect of sodium hexametaphosphate and ageing on the rheological behaviour of kaolin dispersions. *Applied Clay Science*, **2006**, 31, 56-64	5.2	39
346	Diopside□Ba disilicate glass□ceramic sealants for SOFCs: Enhanced adhesion and thermal stability by Sr for Ca substitution. *International Journal of Hydrogen Energy*, **2013**, 38, 3073-3086	6.7	38
345	Diopside (CaO□MgO□2SiO2)□fluorapatite (9CaO□3P2O5□CaF2) glass-ceramics: potential materials for bone tissue engineering. *Journal of Materials Chemistry*, **2011**, 21, 16247		38
344	Morphological and chemical characterisation of biomimetic bone like apatite formation on alkali treated Ti6Al4V titanium alloy. *Materials Science and Engineering C*, **2009**, 29, 1252-1257	8.3	38
343	Sintering behavior of lanthanide-containing glass-ceramic sealants for solid oxide fuel cells. *Journal of Materials Chemistry*, **2012**, 22, 10042		37
342	Hydrolysis-induced aqueous gelcasting for near-net shape forming of ZTA ceramic composites. *Journal of the European Ceramic Society*, **2009**, 29, 1393-1401	6	37
341	Role of the clogging effect in the slip casting process. *Journal of the European Ceramic Society*, **1998**, 18, 1161-1169	6	37
340	Fast Shape Evolution of TiN Microcrystals in Combustion Synthesis. *Crystal Growth and Design*, **2006**, 6, 2404-2411	3.5	37

339	Fabrication of rutile rod-like particle by hydrothermal method: an insight into HNO3 peptization. *Journal of Colloid and Interface Science*, **2005**, 283, 102-6	9.3	37
338	Synthetic and Marine-Derived Porous Scaffolds for Bone Tissue Engineering. *Materials*, **2018**, 11,	3.5	37
337	Structural and Femtosecond Third-Order Nonlinear Optical Properties of Sodium Borate Oxide Glasses: Effect of Antimony. *Journal of Physical Chemistry C*, **2019**, 123, 5591-5602	3.8	36
336	A Thermo-Chemical Surface Treatment of AlN Powder for the Aqueous Processing of AlN Ceramics. *Journal of Materials Research*, **2004**, 19, 746-751	2.5	36
335	Sol-gel preparation and in vitro test of fluorapatite/hydroxyapatite films. *Journal of Biomedical Materials Research Part B*, **2004**, 69, 33-7		36
334	In situ preparation of weakly flocculated aqueous anatase suspensions by a hydrothermal technique. *Journal of Colloid and Interface Science*, **2003**, 260, 82-8	9.3	36
333	Hydrothermal processing of nanocrystalline anatase films from tetraethylammonium hydroxide peptized titania sols. *Journal of the European Ceramic Society*, **2004**, 24, 335-339	6	35
332	In Situ Impregnation of Silver Nanoclusters in Microporous Chitosan-PEG Membranes as an Antibacterial and Drug Delivery Percutaneous Device. *Langmuir*, **2016**, 32, 10305-10316	4	34
331	Highly adherent bioactive glass thin films synthetized by magnetron sputtering at low temperature. *Journal of Materials Science: Materials in Medicine*, **2011**, 22, 2693-710	4.5	33
330	Thermal stability and crystallization kinetics of ternary Se□Te□Sb semiconducting glassy alloys. *Journal of Thermal Analysis and Calorimetry*, **2009**, 98, 347-354	4.1	33
329	Gelcasting of Magnesium Aluminate Spinel Powder. *Journal of the American Ceramic Society*, **2009**, 92, 350-357	3.8	33
328	Influence of magnesia on colloidal processing of alumina. *Journal of the European Ceramic Society*, **1997**, 17, 1341-1350	6	33
327	Microstructure and formation mechanism of combustion-synthesized rodlike Ca □sialon crystals. *Journal of Materials Research*, **2001**, 16, 1928-1934	2.5	33
326	Combustion synthesis of AlN□SiC solid solution particles. *Journal of the European Ceramic Society*, **2000**, 20, 2601-2606	6	33
325	Electrical properties of Ag-doped ZnO nano-plates synthesized via wet chemical precipitation method. *Ceramics International*, **2014**, 40, 4471-4477	5.1	32
324	Innovative fabrication of PZT pillar arrays by a colloidal approach. *Journal of the European Ceramic Society*, **2012**, 32, 1067-1075	6	32
323	Structure, Sintering, and Crystallization Kinetics of Alkaline-Earth Aluminosilicate Glass□Ceramic Sealants for Solid Oxide Fuel Cells. *Journal of the American Ceramic Society*, **2010**, 93, 830-837	3.8	32
322	Development and performance of diopside based glass-ceramic sealants for solid oxide fuel cells. *Journal of Non-Crystalline Solids*, **2010**, 356, 1070-1080	3.9	32

321	Single step synthesis of nanosized CeO2–MxOy mixed oxides (MxOy = SiO2, TiO2, ZrO2, and Al2O3) by microwave induced solution combustion synthesis: characterization and CO oxidation. *Journal of Materials Science*, **2009**, 44, 2743-2751	4.3	32
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319	Effect of Dispersant Concentration on Slip Casting of Cordierite-Based Glass Ceramics. *Journal of Colloid and Interface Science*, **2001**, 241, 417-421	9.3	32
318	Synthesis, processing and characterization of a bioactive glass composition for bone regeneration. *Ceramics International*, **2013**, 39, 2519-2526	5.1	31
317	Injectability of brushite-forming Mg-substituted and Sr-substituted alpha-TCP bone cements. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 431-8	4.5	31
316	Bioactive glass thin films deposited by magnetron sputtering technique: The role of working pressure. *Applied Surface Science*, **2010**, 256, 7102-7110	6.7	31
315	Influence of particle size and particle size distribution on drying-shrinkage behaviour of alumina slip cast bodies. *Ceramics International*, **1999**, 25, 577-580	5.1	31
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