

Antonio H De Aza

List of Publications by Year in descending order

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2,841
citations

147801

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructural development and mechanical performance of $\text{CaSiO}_3\text{-Ca}_3(\text{PO}_4)_2$ bioceramics following the addition of $\text{CaSiO}_3\text{-Ca}_3(\text{PO}_4)_2\text{-MgCa}(\text{SiO}_3)_2$ eutectic glass. <i>Ceramics International</i> , 2021, 47, 5502-5509.	4.8	4
2	Calcium Phosphates in Biomedical Engineering. , 2021, , 595-600.		0
3	Micro-/Nano-Structured Ceramic Scaffolds That Mimic Natural Cancellous Bone. <i>Materials</i> , 2021, 14, 1439.	2.9	8
4	Devitrification study of a novel bioactive glass designed on the $\text{CaSiO}_3\text{-Ca}_3(\text{PO}_4)_2\text{-MgCa}(\text{SiO}_3)_2$ system. <i>Journal of Non-Crystalline Solids</i> , 2020, 528, 119705.	3.1	3
5	Influence of the milling conditions on the thermal decomposition of Bayer gibbsite. <i>Powder Technology</i> , 2020, 362, 188-196.	4.2	13
6	Manufacturing of silicon - Bioactive glass scaffolds by selective laser melting for bone tissue engineering. <i>Ceramics International</i> , 2020, 46, 26936-26944.	4.8	11
7	Microstructural development and mechanical performance of mullite-alumina and hibonite-alumina ceramics with controlled addition of a glass phase. <i>Ceramics International</i> , 2018, 44, 2292-2299.	4.8	15
8	The main role of silica-Based cement free binders on the microstructural evolution and mechanical behaviour of high alumina castables. <i>Journal of the European Ceramic Society</i> , 2018, 38, 4137-4148.	5.7	12
9	Structural changes during crystallization of apatite and wollastonite in the eutectic glass of $\text{Ca}_3(\text{PO}_4)_2\text{-CaSiO}_3$ system. <i>Journal of the American Ceramic Society</i> , 2017, 100, 4288-4304.	3.8	7
10	<i>In vitro</i> study of the proliferation and growth of human fetal osteoblasts on Mg and Si co-substituted tricalcium phosphate ceramics. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2266-2275.	4.0	13
11	Calcium phosphates for biomedical applications. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2017, 56, 91-112.	1.9	152
12	Processing and in vitro bioactivity of a $\text{Ca}_2\text{-Ca}_3(\text{PO}_4)_2\text{-CaMg}(\text{SiO}_3)_2$ ceramic with the eutectic composition. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2016, 55, 1-12.	1.9	16
13	Glass ceramic sealants belonging to $\text{BaO-Al}_2\text{O}_3\text{-SiO}_2$ ternary system modified with B_2O_3 addition: A different approach to access the SOFC seal issue. <i>Journal of the European Ceramic Society</i> , 2016, 36, 631-644.	5.7	64
14	Self-Forming 3D Core-Shell Ceramic Nanostructures for Halogen-Free Flame Retardant Materials. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9462-9471.	8.0	21
15	Different in vitro behavior of two $\text{Ca}_3(\text{PO}_4)_2$ based biomaterials, a glass-ceramic and a ceramic, having the same chemical composition. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2015, 54, 181-188.	1.9	9
16	Ultrafast direct laser writing of cladding waveguides in the $0.8\text{CaSiO}_3\text{-}0.2\text{Ca}_3(\text{PO}_4)_2$ eutectic glass doped with Nd^{3+} ions. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	16
17	$\text{Ca}_2\text{-}$ Tricalcium phosphate cements modified with $\text{Ca}_2\text{-}$ dicalcium silicate and tricalcium aluminate: Physicochemical characterization, <i>in vitro</i> bioactivity and cytotoxicity. , 2015, 103, 72-83.		22
18	Multidisciplinary characterization of the long-bone cortex growth patterns through sheep ontogeny. <i>Journal of Structural Biology</i> , 2015, 191, 1-9.	2.8	15

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19	Î²-Î²-calcium silicate-based cement: Synthesis, characterization and <i>in vitro</i> bioactivity and biocompatibility studies. Journal of Biomedical Materials Research - Part A, 2014, 102, 3693-3703.	4.0	21
20	Time-resolved powder neutron diffraction study of the phase transformation sequence of kaolinite to mullite. Journal of the European Ceramic Society, 2014, 34, 1409-1421.	5.7	61
21	Effect of Mg and Si co-substitution on microstructure and strength of tricalcium phosphate ceramics. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 30, 1-15.	3.1	32
22	Influence of the pH and ageing time on the acid aluminum phosphate synthesized by precipitation. CrystEngComm, 2013, 15, 3359.	2.6	21
23	Stress-induced buried waveguides in the 0.8CaSiO ₃ -0.2Ca ₃ (PO ₄) ₂ eutectic glass doped with Nd ³⁺ ions. Applied Surface Science, 2013, 278, 289-294.	6.1	15
24	Cementos Biomédicos de Fosfato Tricálcico Reforzados con Silicatos y Aluminatos de Calcio-Preparación, Caracterización y Estudios de biodegradación. IFMBE Proceedings, 2013, , 100-103.	0.3	1
25	Cordierite synthesis. A time-resolved neutron diffraction study. Journal of the European Ceramic Society, 2012, 32, 371-379.	5.7	27
26	Synthesis of amorphous acid iron phosphate nanoparticles. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	14
27	Micropatterned silica thin films with nanohydroxyapatite micro-aggregates for guided tissue regeneration. Dental Materials, 2012, 28, 1250-1260.	3.5	24
28	Structure and properties of bioactive eutectic glasses based on the Ca ₃ (PO ₄) ₂ -CaSiO ₃ -CaMg(SiO ₃) ₂ system. Acta Biomaterialia, 2012, 8, 820-829.	8.3	18
29	Interactions in Calcium Aluminate Cement (CAC)-Based Castables Containing Magnesia Part II: Hydration-Dehydration Behavior of CAC and their Mixtures with Dead-Burned and Reactive-Grade MgO. Journal of the American Ceramic Society, 2011, 94, 909-917.	3.8	13
30	Interactions in Calcium Aluminate Cement (CAC)-Based Castables Containing Magnesia. Part I: Hydration-Dehydration Behavior of MgO in the Absence of CAC. Journal of the American Ceramic Society, 2011, 94, 902-908.	3.8	13
31	Isotropic micropatterned silica coatings on zirconia induce guided cell growth for dental implants. Dental Materials, 2011, 27, 581-589.	3.5	52
32	Bone-like forming ability of apatite-wollastonite glass ceramic. Journal of the European Ceramic Society, 2011, 31, 1549-1561.	5.7	62
33	Los diagramas de equilibrio de fases como una herramienta para el diseño y comprensión del comportamiento en servicio de los materiales refractarios. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2011, 50, 279-290.	1.9	7
34	La porcelana de sepiolita de Bartolomé Sureda (1802-1808). Investigación arqueométrica sobre la Real Fábrica de Buen Retiro. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2011, 50, 311-328.	1.9	4
35	Build-up formation and corrosion of monolithic refractories in cement kiln preheaters. Journal of the European Ceramic Society, 2010, 30, 1879-1885.	5.7	20
36	In vitro study of the proliferation and growth of human bone marrow cells on apatite-wollastonite-2M glass ceramics. Acta Biomaterialia, 2010, 6, 2254-2263.	8.3	38

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37	Revisiting the Phase Equilibrium Diagram of the $\text{Ca}_3(\text{PO}_4)_2$ - $\text{CaMg}(\text{SiO}_3)_2$ System. <i>Journal of the American Ceramic Society</i> , 2010, 93, 561-569.	3.8	28
38	Devitrification studies of wollastonite-tricalcium phosphate eutectic glass. <i>Acta Biomaterialia</i> , 2009, 5, 3057-3066.	8.3	34
39	Physical characterization of hydroxyapatite porous scaffolds for tissue engineering. <i>Materials Science and Engineering C</i> , 2009, 29, 1510-1514.	7.3	109
40	Corrosion mechanism of polycrystalline corundum and calcium hexaluminate by calcium silicate slags. <i>Journal of the European Ceramic Society</i> , 2009, 29, 1347-1360.	5.7	47
41	Solid-state ^{27}Al and ^{29}Si NMR characterization of hydrates formed in calcium aluminate-silica fume mixtures. <i>Journal of Solid State Chemistry</i> , 2008, 181, 1744-1752.	2.9	67
42	Neutron diffraction residual stress analysis of zirconia toughened alumina (ZTA) composites. <i>Journal of the European Ceramic Society</i> , 2008, 28, 1809-1814.	5.7	42
43	Dehydration of $\text{Ca}_3\text{Al}_2(\text{SiO}_4)_y(\text{OH})_4(3-y)$ ($0 < y < 0.176$) studied by neutron thermodiffraction. <i>Journal of the European Ceramic Society</i> , 2008, 28, 1737-1748.	5.7	40
44	Experimental Establishment of the CaAl_2O_4 - MgO and CaAl_4O_7 - MgO Isoplethal Sections within the Al_2O_3 - MgO - CaO Ternary System. <i>Journal of the American Ceramic Society</i> , 2008, 91, 535-543.	3.8	12
45	New Approach to the β - γ Polymorphic Transformation in Magnesium-Substituted Tricalcium Phosphate and its Practical Implications. <i>Journal of the American Ceramic Society</i> , 2008, 91, 1281-1286.	3.8	95
46	Assessment of natural and synthetic wollastonite as source for bioceramics preparation. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 484-495.	4.0	31
47	Solid-state ^{27}Al and ^{29}Si NMR investigations on Si-substituted hydrogarnets. <i>Acta Materialia</i> , 2007, 55, 1183-1191.	7.9	52
48	Effect of spinel content on slag attack resistance of high alumina refractory castables. <i>Journal of the European Ceramic Society</i> , 2007, 27, 4623-4631.	5.7	82
49	In Situ Bone-Like Apatite Formation From a Bioeutectic $\frac{1}{2}$ Ceramic in SBF Dynamic Flow. <i>Journal of the American Ceramic Society</i> , 2007, 90, 1200-1207.	3.8	45
50	Alumina/Zirconia Micro/Nanocomposites: A New Material for Biomedical Applications With Superior Sliding Wear Resistance. <i>Journal of the American Ceramic Society</i> , 2007, 90, 3177-3184.	3.8	49
51	The Mechanism of corrosion of MgO - CaZrO_3 -calcium silicate materials by cement clinker. <i>Journal of the European Ceramic Society</i> , 2007, 27, 79-89.	5.7	35
52	Analytical Characterization of a Magnesia-Graphite Refractory. <i>Journal of the American Ceramic Society</i> , 2006, 89, 1704-1708.	3.8	8
53	Influence of Sterilization Techniques on the In Vitro Bioactivity of Pseudowollastonite. <i>Journal of the American Ceramic Society</i> , 2006, 89, 2619-2624.	3.8	18
54	On the Decomposition of Synthetic Gibbsite Studied by Neutron Thermodiffraction. <i>Journal of the American Ceramic Society</i> , 2006, 89, 3728-3733.	3.8	60

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55	Calcium aluminates hydration in presence of amorphous SiO ₂ at temperatures below 90Â°C. Journal of Solid State Chemistry, 2006, 179, 2988-2997.	2.9	48
56	Direct mineralogical composition of a MgO-C refractory material obtained by Rietveld methodology. Journal of the European Ceramic Society, 2006, 26, 2587-2592.	5.7	23
57	Synthesis of CaAl ₂ O ₄ from powders: Particle size effect. Journal of the European Ceramic Society, 2005, 25, 3269-3279.	5.7	92
58	Alumina-rich refractory concretes with added spinel, periclase and dolomite: A comparative study of their microstructural evolution with temperature. Journal of the European Ceramic Society, 2005, 25, 1499-1506.	5.7	39
59	Rietveld Quantitative Analysis of <i>Buen Retiro</i> Porcelains. Journal of the American Ceramic Society, 2004, 87, 449-454.	3.8	20
60	The synthesis mechanism of Ca ₃ Al ₂ O ₆ from soft mechanochemically activated precursors studied by time-resolved neutron diffraction up to 1000Â°C. Journal of Solid State Chemistry, 2004, 177, 866-874.	2.9	37
61	Structural evolution of lamellar surfactant-silica hybrids upon calcination. Composites Science and Technology, 2003, 63, 1127-1131.	7.8	7
62	New spinel-containing refractory cements. Journal of the European Ceramic Society, 2003, 23, 737-744.	5.7	38
63	Slow Crack Growth Behavior of Zirconia Toughened Alumina Ceramics Processed by Different Methods. Journal of the American Ceramic Society, 2003, 86, 115-120.	3.8	96
64	Crack Growth Resistance of Zirconia Toughened Alumina Ceramics for Joint Prostheses. Key Engineering Materials, 2002, 206-213, 1535-1538.	0.4	6
65	In Situ Monitoring Reaction Sintering of Dolomite-Based Systems. Key Engineering Materials, 2002, 206-213, 437-440.	0.4	0
66	Study of Zirconia-Dolomite Reactions Monitored by Neutron Thermodiffraction. Journal of Solid State Chemistry, 2002, 166, 426-433.	2.9	9
67	Crack growth resistance of alumina, zirconia and zirconia toughened alumina ceramics for joint prostheses. Biomaterials, 2002, 23, 937-945.	11.4	513
68	Decomposition of Dolomite Monitored by Neutron Thermodiffraction. Journal of the American Ceramic Society, 2002, 85, 881-888.	3.8	34
69	Extending the Lifetime of Ceramic Orthopaedic Implants. Advanced Materials, 2000, 12, 1619-1621.	21.0	52
70	Ternary System Al ₂ O ₃ -MgO-CaO: Part II, Phase Relationships in the Subsystem Al ₂ O ₃ -MgAl ₂ O ₄ -CaAl ₄ O ₇ . Journal of the American Ceramic Society, 2000, 83, 919-927.	3.8	54
71	Ternary System Al ₂ O ₃ -MgO-CaO: I, Primary Phase Field of Crystallization of Spinel in the Subsystem MgAl ₂ O ₄ -CaAl ₄ O ₇ -CaO-MgO. Journal of the American Ceramic Society, 1999, 82, 2193-2203.	3.8	45
72	Reactive coating of dolomite on alumina substrates. Journal of the European Ceramic Society, 1997, 17, 935-941.	5.7	14

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73	Reactive coating on alumina substrates. Calcium and barium hexa aluminates. Scripta Metallurgica Et Materialia, 1994, 31, 1049-1054.	1.0	16