Julia Serra

List of Publications by Citations

72 papers	2,008 citations	20 h-index	43 g-index
72 ext. papers	2,239 ext. citations	4.4 avg, IF	4.34 L-index

#	Paper	IF	Citations
72	Structural study of sol-gel silicate glasses by IR and Raman spectroscopies. *Journal of Non-Crystalline Solids*, **2009**, 355, 475-480	3.9	391
71	FTIR and XPS studies of bioactive silica based glasses. *Journal of Non-Crystalline Solids*, **2003**, 332, 20-27	3.9	244
70	Influence of the non-bridging oxygen groups on the bioactivity of silicate glasses. *Journal of Materials Science: Materials in Medicine*, **2002**, 13, 1221-5	4.5	142
69	New biomorphic SiC ceramics coated with bioactive glass for biomedical applications. *Biomaterials*, **2003**, 24, 4827-32	15.6	133
68	Raman spectroscopic study of bioactive silica based glasses. *Journal of Non-Crystalline Solids*, **2003**, 320, 92-99	3.9	95
67	Novel selenium-doped hydroxyapatite coatings for biomedical applications. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 853-61	5.4	84
66	Pulsed laser deposition of strontium-substituted hydroxyapatite coatings. *Applied Surface Science*, **2012**, 258, 9192-9197	6.7	62
65	Silicon-hydroxyapatite bioactive coatings (Si-HA) from diatomaceous earth and silica. Study of adhesion and proliferation of osteoblast-like cells. *Journal of Materials Science: Materials in Medicine*, **2009**, 20, 1131-6	4.5	52
64	Orthophosphate nanostructures in SiO2P2O5CaONa2OMgO bioactive glasses. *Journal of Non-Crystalline Solids*, **2008**, 354, 4075-4080	3.9	47
63	Raman and NMR study of bioactive Na2OMgOCaOP2O5SiO2 glasses. *Journal of Non-Crystalline Solids*, **2008**, 354, 5004-5008	3.9	39
62	Pulsed laser deposition of silicon substituted hydroxyapatite coatings from synthetical and biological sources. *Applied Surface Science*, **2007**, 254, 1189-1193	6.7	37
61	Marine Collagen/Apatite Composite Scaffolds Envisaging Hard Tissue Applications. *Marine Drugs*, **2018**, 16,	6	36
60	Behaviour of MG-63 osteoblast-like cells on wood-based biomorphic SiC ceramics coated with bioactive glass. *Journal of Materials Science: Materials in Medicine*, **2006**, 17, 523-9	4.5	35
59	Photo-induced chemical vapour deposition of silicon oxide thin films. *Thin Solid Films*, **1992**, 218, 170-181	2.2	33
58	Ageing of pulsed-laser-deposited bioactive glass films. *Vacuum*, **2002**, 67, 647-651	3.7	29
57	Study of the composition transfer in the pulsed laser deposition of silicon substituted hydroxyapatite thin films. *Applied Surface Science*, **2007**, 253, 8282-8286	6.7	27
56	Pulsed laser deposition of hydroxylapatite thin films on biomorphic silicon carbide ceramics. *Applied Surface Science*, **2005**, 248, 355-359	6.7	24

55	Pulsed laser deposition of silicon-substituted hydroxyapatite coatings. *Vacuum*, **2008**, 82, 1383-1385	3.7	22
54	In vivo evaluation of titanium implants coated with bioactive glass by pulsed laser deposition. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 2371-6	4.5	21
53	Influence of the Stabilization Temperature on the Structure of Bioactive Sol□Gel Silicate Glasses. *Journal of the American Ceramic Society*, **2010**, 93, 2286-2291	3.8	20
52	Compositional, structural and optical properties of Si-rich a-SiC:H thin films deposited by ArF-LCVD. *Applied Surface Science*, **2005**, 248, 113-117	6.7	18
51	The role of the thickness and the substrate on the in vitro bioactivity of silica-based glass coatings. *Materials Science and Engineering C*, **2005**, 25, 187-193	8.3	18
50	Fluor-carbonated hydroxyapatite coatings by pulsed laser deposition to promote cell viability and antibacterial properties. *Surface and Coatings Technology*, **2018**, 349, 736-744	4.4	17
49	Key parameters in blood-surface interactions of 3D bioinspired ceramic materials. *Materials Science and Engineering C*, **2014**, 41, 232-9	8.3	17
48	Bio-inspired Ceramics: Promising Scaffolds for Bone Tissue Engineering. *Procedia Engineering*, **2013**, 59, 51-58		16
47	Bio-inspired porous SiC ceramics loaded with vancomycin for preventing MRSA infections. *Journal of Materials Science: Materials in Medicine*, **2011**, 22, 339-47	4.5	16
46	Excimer laser removal of beeswax from galician granite monuments. *Journal of Cultural Heritage*, **2009**, 10, 48-52	2.9	16
45	Excimer laser chemical ammonia patterning on PET film. *Journal of Materials Science: Materials in Medicine*, **2009**, 20, 597-606	4.5	16
44	Plasma assisted pulsed laser deposition of hydroxylapatite thin films. *Applied Surface Science*, **2005**, 248, 360-364	6.7	16
43	Amorphous germanium layers prepared by UV-photo-induced chemical vapour deposition. *Applied Surface Science*, **1996**, 106, 75-79	6.7	16
42	Analytical and numerical calculations of the temperature distribution in Si and Ge targets irradiated by excimer lasers. *Applied Surface Science*, **2005**, 248, 455-460	6.7	15
41	Improvement of silicon oxide film properties by ultraviolet excimer lamp annealing. *Applied Surface Science*, **1995**, 86, 294-298	6.7	15
40	In vivo evaluation of shark teeth-derived bioapatites. *Clinical Oral Implants Research*, **2017**, 28, e91-e100	4.8	12
39	Finite elements analysis of heteroepitaxial SiGe layers grown by excimer laser. *Applied Surface Science*, **2005**, 248, 461-465	6.7	12
38	Human mesenchymal stem cells response to multi-doped silicon-strontium calcium phosphate coatings. *Journal of Biomaterials Applications*, **2014**, 28, 1397-407	2.9	11

37	Nanostructural Transitions in Bioactive Sol–Gel Silicate Glasses. *International Journal of Applied Ceramic Technology*, **2011**, 8, 511-522	2	11
36	Optimisation of Raman analysis of walnut oil used as protective coating of Galician granite monuments. *Journal of Raman Spectroscopy*, **2010**, 41, 1449-1454	2.3	11
35	PLD bioactive ceramic films: the influence of CaO-P2O5 glass additions to hydroxyapatite on the proliferation and morphology of osteblastic like-cells. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 1775-85	4.5	11
34	UV-laser-assisted processing of thin silicon–germanium–carbon films. *Thin Solid Films*, **2006**, 508, 48-52	2.2	11
33	Laser crystallisation of poly-SiGe for microbolometers. *Applied Surface Science*, **2002**, 186, 166-172	6.7	11
32	Influence of the Network Modifier Content on the Bioactivity of Silicate Glasses. *Key Engineering Materials*, **2003**, 254-256, 23-26	0.4	11
31	Characterization and Cytotoxic Effect of Biosurfactants Obtained from Different Sources. *ACS Omega*, **2020**, 5, 31381-31390	3.9	11
30	How to Sterilize Polylactic Acid Based Medical Devices?. *Polymers*, **2021**, 13,	4.5	11
29	Current Stage of Marine Ceramic Grafts for 3D Bone Tissue Regeneration. *Marine Drugs*, **2019**, 17,	6	10
28	Quantitative evaluation of sulfation position prevalence in chondroitin sulphate by Raman spectroscopy. *Journal of Raman Spectroscopy*, **2019**, 50, 656-664	2.3	10
27	Modification of silicon nitride films to oxynitrides by ArF excimer laser irradiation. *Surface and Coatings Technology*, **1996**, 80, 211-215	4.4	10
26	Comparative evaluation of UV–visIR Nd:YAG laser cleaning of beeswax layers on granite substrates. *Applied Surface Science*, **2011**, 257, 5484-5490	6.7	7
25	Impact of Prevalence Ratios of Chondroitin Sulfate (CS)- 4 and -6 Isomers Derived from Marine Sources in Cell Proliferation and Chondrogenic Differentiation Processes. *Marine Drugs*, **2020**, 18,	6	7
24	Chondroitin sulfate and hydroxyapatite from Prionace glauca shark jaw: Physicochemical and structural characterization. *International Journal of Biological Macromolecules*, **2020**, 156, 329-339	7.9	6
23	Analysis of plume deflection in the silicon laser ablation process. *Applied Physics A: Materials Science and Processing*, **2007**, 88, 667-671	2.6	6
22	Growth and modification of thin SiGeC films at low substrate temperatures through UV laser assisted processing. *Applied Surface Science*, **2004**, 234, 422-428	6.7	6
21	Pulsed laser deposition of bioactive glass films in ammonia and disilane atmospheres. *Applied Surface Science*, **2005**, 248, 369-375	6.7	6
20	Porous Silicon Carbide Scaffolds with Patterned Surfaces Obtained from the Sea Rush Juncus maritimus for Tissue Engineering Applications. *International Journal of Applied Ceramic Technology*, **2012**, 9, 486-496	2	5

19	A New Quantitative Method to Predict the Bioactive Behavior of Silicate Glasses. *Journal of the American Ceramic Society*, **2012**, 95, 2554-2561	3.8	4
18	Characterization of Thin Calcium Phosphate Coating **2009**, 25-66		4
17	Biomorphic Silicon Carbide Ceramics Coated with Bioactive Glass for Medical Applications. *Materials Science Forum*, **2006**, 514-516, 970-974	0.4	4
16	Calibration of Raman spectroscopy at 1064 nm for beeswax quantification. *Applied Spectroscopy*, **2007**, 61, 1259-64	3.1	4
15	Influence of the substrate temperature on the structure of Ge containing thin films produced by ArF laser induced chemical vapour deposition. *Applied Surface Science*, **2005**, 248, 108-112	6.7	4
14	High-temperature corrosion-resistant ceramic coatings obtained by laser chemical vapour deposition. *Vacuum*, **1994**, 45, 1035-1037	3.7	4
13	Numerical and experimental study of the Ti6Al4V macrostructure obtained by Nd:YAG laser. *Applied Physics B: Lasers and Optics*, **2014**, 115, 137-141	1.9	3
12	Tuning the Biomineralization Process for Controlling the Nucleation and Oriented Growth of CaP Crystals onto Functionalized Carbon Nanotubes. *Journal of Physical Chemistry C*, **2012**, 116, 3400-3404	3.8	3
11	CaO-P2O5 Glass-Hydroxyapatite Thin Films Obtained by Laser Ablation: Characterisation and In Vitro Bioactivity Evaluation. *Key Engineering Materials*, **2003**, 254-256, 347-350	0.4	2
10	Silicon oxide thin films grown by Xe2* excimer lamp chemical vapour deposition: the role of the substrate temperature and the window-substrate distance. *Thin Solid Films*, **1994**, 241, 348-351	2.2	2
9	The role of the buffer gas in the ArF laser chemical vapour deposition of silicon oxide. *Thin Solid Films*, **1993**, 230, 35-38	2.2	2
8	Preclinical Evaluation of an Innovative Bone Graft of Marine Origin for the Treatment of Critical-Sized Bone Defects in an Animal Model. *Applied Sciences (Switzerland)*, **2021**, 11, 2116	2.6	2
7	Biomineralization of marine-patterned C-scaffolds. *Bioinspired, Biomimetic and Nanobiomaterials*, **2014**, 3, 106-114	1.3	1
6	A growth rate, structure and surface morphology study of Si1-x-yGexCy films deposited by ArF-LCVD in tilted geometry. *Vacuum*, **2008**, 82, 1525-1528	3.7	1
5	Combined Structural Investigations of Bioactive Silicate Glasses. *Key Engineering Materials*, **2007**, 361-363, 257-260	0.4	1
4	Tailoring silicon oxide film properties by tuning the laser beam-to-substrate distance in ArF laser-induced chemical vapor deposition. *Thin Solid Films*, **1994**, 241, 80-83	2.2	1
3	Optimal Recovery of Valuable Biomaterials, Chondroitin Sulfate and Bioapatites, from Central Skeleton Wastes of Blue Shark. *Polymers*, **2020**, 12,	4.5	1
2	The role of silane and N2O in the CO2 laser-CVD of silicon oxide films. *Applied Surface Science*, **1993**, 69, 281-284	6.7	0

1 Nanonstructural Analysis of Hydroxyapatite Thin Films Using HRTEM/FIB Techniques. *Microscopy and Microanalysis*, **2012**, 18, 117-118 0.5