

# Julia Serra

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	How to Sterilize Polylactic Acid Based Medical Devices?. <i>Polymers</i> , <b>2021</b> , 13,	4.5	11
71	Preclinical Evaluation of an Innovative Bone Graft of Marine Origin for the Treatment of Critical-Sized Bone Defects in an Animal Model. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 2116	2.6	2
70	Chondroitin sulfate and hydroxyapatite from <i>Prionace glauca</i> shark jaw: Physicochemical and structural characterization. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 156, 329-339	7.9	6
69	Impact of Prevalence Ratios of Chondroitin Sulfate (CS)- 4 and -6 Isomers Derived from Marine Sources in Cell Proliferation and Chondrogenic Differentiation Processes. <i>Marine Drugs</i> , <b>2020</b> , 18,	6	7
68	Optimal Recovery of Valuable Biomaterials, Chondroitin Sulfate and Bioapatites, from Central Skeleton Wastes of Blue Shark. <i>Polymers</i> , <b>2020</b> , 12,	4.5	1
67	Characterization and Cytotoxic Effect of Biosurfactants Obtained from Different Sources. <i>ACS Omega</i> , <b>2020</b> , 5, 31381-31390	3.9	11
66	Current Stage of Marine Ceramic Grafts for 3D Bone Tissue Regeneration. <i>Marine Drugs</i> , <b>2019</b> , 17,	6	10
65	Quantitative evaluation of sulfation position prevalence in chondroitin sulphate by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2019</b> , 50, 656-664	2.3	10
64	Fluor-carbonated hydroxyapatite coatings by pulsed laser deposition to promote cell viability and antibacterial properties. <i>Surface and Coatings Technology</i> , <b>2018</b> , 349, 736-744	4.4	17
63	Marine Collagen/Apatite Composite Scaffolds Envisaging Hard Tissue Applications. <i>Marine Drugs</i> , <b>2018</b> , 16,	6	36
62	In vivo evaluation of shark teeth-derived bioapatites. <i>Clinical Oral Implants Research</i> , <b>2017</b> , 28, e91-e100	4.8	12
61	Key parameters in blood-surface interactions of 3D bioinspired ceramic materials. <i>Materials Science and Engineering C</i> , <b>2014</b> , 41, 232-9	8.3	17
60	Human mesenchymal stem cells response to multi-doped silicon-strontium calcium phosphate coatings. <i>Journal of Biomaterials Applications</i> , <b>2014</b> , 28, 1397-407	2.9	11
59	Biomineralization of marine-patterned C-scaffolds. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , <b>2014</b> , 3, 106-114	1.3	1
58	Numerical and experimental study of the Ti6Al4V macrostructure obtained by Nd:YAG laser. <i>Applied Physics B: Lasers and Optics</i> , <b>2014</b> , 115, 137-141	1.9	3
57	Bio-inspired Ceramics: Promising Scaffolds for Bone Tissue Engineering. <i>Procedia Engineering</i> , <b>2013</b> , 59, 51-58		16
56	Novel selenium-doped hydroxyapatite coatings for biomedical applications. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 853-61	5.4	84

55	Porous Silicon Carbide Scaffolds with Patterned Surfaces Obtained from the Sea Rush <i>Juncus maritimus</i> for Tissue Engineering Applications. <i>International Journal of Applied Ceramic Technology</i> , <b>2012</b> , 9, 486-496	2	5
54	A New Quantitative Method to Predict the Bioactive Behavior of Silicate Glasses. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 2554-2561	3.8	4
53	Pulsed laser deposition of strontium-substituted hydroxyapatite coatings. <i>Applied Surface Science</i> , <b>2012</b> , 258, 9192-9197	6.7	62
52	Tuning the Biomineralization Process for Controlling the Nucleation and Oriented Growth of CaP Crystals onto Functionalized Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 3400-3404	3.8	3
51	Nanonstructural Analysis of Hydroxyapatite Thin Films Using HRTEM/FIB Techniques. <i>Microscopy and Microanalysis</i> , <b>2012</b> , 18, 117-118	0.5	
50	Nanostructural Transitions in Bioactive Sol-Gel Silicate Glasses. <i>International Journal of Applied Ceramic Technology</i> , <b>2011</b> , 8, 511-522	2	11
49	Bio-inspired porous SiC ceramics loaded with vancomycin for preventing MRSA infections. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2011</b> , 22, 339-47	4.5	16
48	Comparative evaluation of UV-vis/IR Nd:YAG laser cleaning of beeswax layers on granite substrates. <i>Applied Surface Science</i> , <b>2011</b> , 257, 5484-5490	6.7	7
47	Influence of the Stabilization Temperature on the Structure of Bioactive Sol-Gel Silicate Glasses. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 2286-2291	3.8	20
46	Optimisation of Raman analysis of walnut oil used as protective coating of Galician granite monuments. <i>Journal of Raman Spectroscopy</i> , <b>2010</b> , 41, 1449-1454	2.3	11
45	Excimer laser removal of beeswax from galician granite monuments. <i>Journal of Cultural Heritage</i> , <b>2009</b> , 10, 48-52	2.9	16
44	Excimer laser chemical ammonia patterning on PET film. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2009</b> , 20, 597-606	4.5	16
43	Silicon-hydroxyapatite bioactive coatings (Si-HA) from diatomaceous earth and silica. Study of adhesion and proliferation of osteoblast-like cells. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2009</b> , 20, 1131-6	4.5	52
42	Characterization of Thin Calcium Phosphate Coating <b>2009</b> , 25-66		4
41	Structural study of sol-gel silicate glasses by IR and Raman spectroscopies. <i>Journal of Non-Crystalline Solids</i> , <b>2009</b> , 355, 475-480	3.9	391
40	Orthophosphate nanostructures in SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> -CaO-Na <sub>2</sub> O-MgO bioactive glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 4075-4080	3.9	47
39	Raman and NMR study of bioactive Na <sub>2</sub> O-MgO-CaO-P <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 5004-5008	3.9	39
38	PLD bioactive ceramic films: the influence of CaO-P <sub>2</sub> O <sub>5</sub> glass additions to hydroxyapatite on the proliferation and morphology of osteoblastic like-cells. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 1775-85	4.5	11

37	A growth rate, structure and surface morphology study of Si <sub>1-x-y</sub> GexCy films deposited by ArF-LCVD in tilted geometry. <i>Vacuum</i> , <b>2008</b> , 82, 1525-1528	3.7	1
36	Pulsed laser deposition of silicon-substituted hydroxyapatite coatings. <i>Vacuum</i> , <b>2008</b> , 82, 1383-1385	3.7	22
35	Study of the composition transfer in the pulsed laser deposition of silicon substituted hydroxyapatite thin films. <i>Applied Surface Science</i> , <b>2007</b> , 253, 8282-8286	6.7	27
34	Pulsed laser deposition of silicon substituted hydroxyapatite coatings from synthetical and biological sources. <i>Applied Surface Science</i> , <b>2007</b> , 254, 1189-1193	6.7	37
33	Analysis of plume deflection in the silicon laser ablation process. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 88, 667-671	2.6	6
32	In vivo evaluation of titanium implants coated with bioactive glass by pulsed laser deposition. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2007</b> , 18, 2371-6	4.5	21
31	Combined Structural Investigations of Bioactive Silicate Glasses. <i>Key Engineering Materials</i> , <b>2007</b> , 361-363, 257-260	0.4	1
30	Calibration of Raman spectroscopy at 1064 nm for beeswax quantification. <i>Applied Spectroscopy</i> , <b>2007</b> , 61, 1259-64	3.1	4
29	Biomorphic Silicon Carbide Ceramics Coated with Bioactive Glass for Medical Applications. <i>Materials Science Forum</i> , <b>2006</b> , 514-516, 970-974	0.4	4
28	UV-laser-assisted processing of thin silicon-germanium-carbon films. <i>Thin Solid Films</i> , <b>2006</b> , 508, 48-52	2.2	11
27	Behaviour of MG-63 osteoblast-like cells on wood-based biomorphic SiC ceramics coated with bioactive glass. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2006</b> , 17, 523-9	4.5	35
26	Analytical and numerical calculations of the temperature distribution in Si and Ge targets irradiated by excimer lasers. <i>Applied Surface Science</i> , <b>2005</b> , 248, 455-460	6.7	15
25	Compositional, structural and optical properties of Si-rich a-SiC:H thin films deposited by ArF-LCVD. <i>Applied Surface Science</i> , <b>2005</b> , 248, 113-117	6.7	18
24	Pulsed laser deposition of hydroxylapatite thin films on biomorphic silicon carbide ceramics. <i>Applied Surface Science</i> , <b>2005</b> , 248, 355-359	6.7	24
23	Plasma assisted pulsed laser deposition of hydroxylapatite thin films. <i>Applied Surface Science</i> , <b>2005</b> , 248, 360-364	6.7	16
22	Pulsed laser deposition of bioactive glass films in ammonia and disilane atmospheres. <i>Applied Surface Science</i> , <b>2005</b> , 248, 369-375	6.7	6
21	Influence of the substrate temperature on the structure of Ge containing thin films produced by ArF laser induced chemical vapour deposition. <i>Applied Surface Science</i> , <b>2005</b> , 248, 108-112	6.7	4
20	Finite elements analysis of heteroepitaxial SiGe layers grown by excimer laser. <i>Applied Surface Science</i> , <b>2005</b> , 248, 461-465	6.7	12

19	The role of the thickness and the substrate on the in vitro bioactivity of silica-based glass coatings. <i>Materials Science and Engineering C</i> , <b>2005</b> , 25, 187-193	8.3	18
18	Growth and modification of thin SiGeC films at low substrate temperatures through UV laser assisted processing. <i>Applied Surface Science</i> , <b>2004</b> , 234, 422-428	6.7	6
17	CaO-P2O5 Glass-Hydroxyapatite Thin Films Obtained by Laser Ablation: Characterisation and In Vitro Bioactivity Evaluation. <i>Key Engineering Materials</i> , <b>2003</b> , 254-256, 347-350	0.4	2
16	New biomorphic SiC ceramics coated with bioactive glass for biomedical applications. <i>Biomaterials</i> , <b>2003</b> , 24, 4827-32	15.6	133
15	Raman spectroscopic study of bioactive silica based glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 320, 92-99	3.9	95
14	FTIR and XPS studies of bioactive silica based glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 332, 20-27	3.9	244
13	Influence of the Network Modifier Content on the Bioactivity of Silicate Glasses. <i>Key Engineering Materials</i> , <b>2003</b> , 254-256, 23-26	0.4	11
12	Ageing of pulsed-laser-deposited bioactive glass films. <i>Vacuum</i> , <b>2002</b> , 67, 647-651	3.7	29
11	Laser crystallisation of poly-SiGe for microbolometers. <i>Applied Surface Science</i> , <b>2002</b> , 186, 166-172	6.7	11
10	Influence of the non-bridging oxygen groups on the bioactivity of silicate glasses. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2002</b> , 13, 1221-5	4.5	142
9	Modification of silicon nitride films to oxynitrides by ArF excimer laser irradiation. <i>Surface and Coatings Technology</i> , <b>1996</b> , 80, 211-215	4.4	10
8	Amorphous germanium layers prepared by UV-photo-induced chemical vapour deposition. <i>Applied Surface Science</i> , <b>1996</b> , 106, 75-79	6.7	16
7	Improvement of silicon oxide film properties by ultraviolet excimer lamp annealing. <i>Applied Surface Science</i> , <b>1995</b> , 86, 294-298	6.7	15
6	Silicon oxide thin films grown by Xe2* excimer lamp chemical vapour deposition: the role of the substrate temperature and the window-substrate distance. <i>Thin Solid Films</i> , <b>1994</b> , 241, 348-351	2.2	2
5	High-temperature corrosion-resistant ceramic coatings obtained by laser chemical vapour deposition. <i>Vacuum</i> , <b>1994</b> , 45, 1035-1037	3.7	4
4	Tailoring silicon oxide film properties by tuning the laser beam-to-substrate distance in ArF laser-induced chemical vapor deposition. <i>Thin Solid Films</i> , <b>1994</b> , 241, 80-83	2.2	1
3	The role of silane and N2O in the CO2 laser-CVD of silicon oxide films. <i>Applied Surface Science</i> , <b>1993</b> , 69, 281-284	6.7	0
2	The role of the buffer gas in the ArF laser chemical vapour deposition of silicon oxide. <i>Thin Solid Films</i> , <b>1993</b> , 230, 35-38	2.2	2

- 1 Photo-induced chemical vapour deposition of silicon oxide thin films. *Thin Solid Films*, **1992**, 218, 170-181.2 33