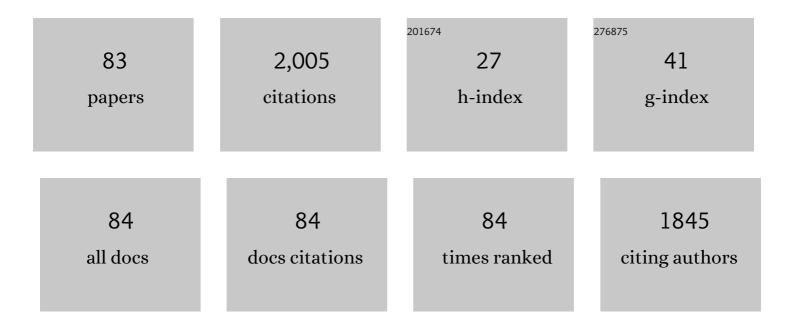
## Jonathan M Massera

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2921783/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Bioactive phosphate glass-based fiber with green persistent luminescence. Materials Research Bulletin, 2022, 153, 111899.	5.2	8
2	In Vivo Evaluation of 3D-Printed Silica-Based Bioactive Glass Scaffolds for Bone Regeneration. Journal of Functional Biomaterials, 2022, 13, 74.	4.4	11
3	Specific trends in phosphate glass crystallization. Journal of Non-Crystalline Solids, 2021, 551, 120431.	3.1	4
4	Micro computed tomography based finite element models for elastic and strength properties of 3D printed glass scaffolds. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 292-306.	3.4	9
5	Impact of Glass Composition on Hydrolytic Degradation of Polylactide/Bioactive Glass Composites. Materials, 2021, 14, 667.	2.9	7
6	New Generation of Hybrid Materials Based on Gelatin and Bioactive Glass Particles for Bone Tissue Regeneration. Biomolecules, 2021, 11, 444.	4.0	11
7	Tellurium: A new active element for innovative multifunctional bioactive glasses. Materials Science and Engineering C, 2021, 123, 111957.	7.3	17
8	Polymer-Based Honeycomb Films on Bioactive Glass: Toward a Biphasic Material for Bone Tissue Engineering Applications. ACS Applied Materials & Interfaces, 2021, 13, 29984-29995.	8.0	10
9	Surface Modification of Bioresorbable Phosphate Glasses for Controlled Protein Adsorption. ACS Biomaterials Science and Engineering, 2021, 7, 4483-4493.	5.2	10
10	Surface Modification of Bioactive Glass Promotes Cell Attachment and Spreading. ACS Omega, 2021, 6, 22635-22642.	3.5	8
11	Nano-imaging confirms improved apatite precipitation for high phosphate/silicate ratio bioactive glasses. Scientific Reports, 2021, 11, 19464.	3.3	3
12	Dissolution, bioactivity and osteogenic properties of composites based on polymer and silicate or borosilicate bioactive glass. Materials Science and Engineering C, 2020, 107, 110340.	7.3	17
13	Bioactive glass-ceramics: From macro to nano. , 2020, , 275-292.		2
14	Nucleation and growth behavior of Er <sup>3+</sup> doped oxyfluorophosphate glasses. RSC Advances, 2020, 10, 25703-25716.	3.6	10
15	Materials and Orthopedic Applications for Bioresorbable Inductively Coupled Resonance Sensors. ACS Applied Materials & Interfaces, 2020, 12, 31148-31161.	8.0	17
16	Phosphate/oxyfluorophosphate glass crystallization and its impact on dissolution and cytotoxicity. Materials Science and Engineering C, 2020, 117, 111269.	7.3	8
17	Structure and in vitro dissolution of Mg and Sr containing borosilicate bioactive glasses for bone tissue engineering. Journal of Non-Crystalline Solids, 2020, 533, 119893.	3.1	24
18	Changes in the mechanical properties of bioactive borophosphate fiber when immersed in aqueous solutions. International Journal of Applied Glass Science, 2020, 11, 622-631.	2.0	5

JONATHAN M MASSERA

#	Article	IF	CITATIONS
19	Fabrication and Characterization of New Phosphate Glasses and Glass-Ceramics Suitable for Drawing Optical and Biophotonic Libers. , 2019, , .		0
20	Effect of Melt-Derived Bioactive Glass Particles on the Properties of Chitosan Scaffolds. Journal of Functional Biomaterials, 2019, 10, 38.	4.4	9
21	Robocasting of SiO2-Based Bioactive Glass Scaffolds with Porosity Gradient for Bone Regeneration and Potential Load-Bearing Applications. Materials, 2019, 12, 2691.	2.9	39
22	Processing methods for making porous bioactive glassâ€based scaffolds—A stateâ€ofâ€theâ€art review. International Journal of Applied Ceramic Technology, 2019, 16, 1762-1796.	2.1	93
23	Design, processing, and characterization of an optical coreâ€bioactive clad phosphate fiber for biomedical applications. Journal of the American Ceramic Society, 2019, 102, 6882-6892.	3.8	10
24	Inâ€vitro dissolution characteristics and human adipose stem cell response to novel borophosphate glasses. Journal of Biomedical Materials Research - Part A, 2019, 107, 2099-2114.	4.0	4
25	Robocasting of Bioactive SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> -CaO-MgO-Na <sub>2</sub> O-K <sub>2</sub> O Glass Scaffolds. Journal of Healthcare Engineering, 2019, 2019, 1-12.	1.9	32
26	Wood-based nanocellulose and bioactive glass modified gelatin–alginate bioinks for 3D bioprinting of bone cells. Biofabrication, 2019, 11, 035010.	7.1	125
27	Surface reactivity and silanization ability of borosilicate and Mg-Sr-based bioactive glasses. Applied Surface Science, 2019, 475, 43-55.	6.1	26
28	Core-clad phosphate glass fibers for biosensing. Materials Science and Engineering C, 2019, 96, 458-465.	7.3	14
29	In vitro Evaluation of Porous borosilicate, borophosphate and phosphate Bioactive Glasses Scaffolds fabricated using Foaming Agent for Bone Regeneration. Scientific Reports, 2018, 8, 3699.	3.3	28
30	Luminescence of Er 3+ doped oxyfluoride phosphate glasses and glass-ceramics. Journal of Alloys and Compounds, 2018, 751, 224-230.	5.5	35
31	Persistent luminescent particles containing bioactive glasses: Prospect toward tracking in-vivo implant mineralization using biophotonic ceramics. Journal of the European Ceramic Society, 2018, 38, 287-295.	5.7	12
32	Processing and Characterization of Bioactive Borosilicate Glasses and Scaffolds with Persistent Luminescence. , 2018, , .		1
33	The effect of S53P4-based borosilicate glasses and glass dissolution products on the osteogenic commitment of human adipose stem cells. PLoS ONE, 2018, 13, e0202740.	2.5	44
34	Building wireless sensor networks with biological cultures: components and integration challenges. International Journal of Parallel, Emergent and Distributed Systems, 2017, 32, 56-73.	1.0	2
35	Thermal, structural and in vitro dissolution of antimicrobial copper-doped and slow resorbable iron-doped phosphate glasses. Journal of Materials Science, 2017, 52, 8957-8972.	3.7	17
36	Effect of the addition of Al2O3, TiO2 and ZnO on the thermal, structural and luminescence properties of Er3+-doped phosphate glasses. Journal of Non-Crystalline Solids, 2017, 460, 161-168.	3.1	37

JONATHAN M MASSERA

#	Article	IF	CITATIONS
37	Crystallization and sintering of borosilicate bioactive glasses for application in tissue engineering. Journal of Materials Chemistry B, 2017, 5, 4514-4525.	5.8	48
38	Do properties of bioactive glasses exhibit mixed alkali behavior?. Journal of Materials Science, 2017, 52, 8986-8997.	3.7	14
39	Effect of partial crystallization on the structural and Er 3+ luminescence properties of phosphate-based glasses. Optical Materials, 2017, 64, 230-238.	3.6	5
40	Effects of Sintering Temperature on Crystallization and Fabrication of Porous Bioactive Glass Scaffolds for Bone Regeneration. Scientific Reports, 2017, 7, 6046.	3.3	35
41	In Vitro Degradation of Borosilicate Bioactive Glass and Poly(l-lactide-co-ε-caprolactone) Composite Scaffolds. Materials, 2017, 10, 1274.	2.9	17
42	Glass and Glass-Ceramic Scaffolds: Manufacturing Methods and the Impact of Crystallization on In-Vitro Dissolution. , 2017, , .		0
43	Surface functionalization of phosphate-based bioactive glasses with 3-aminopropyltriethoxysilane (APTS). Biomedical Glasses, 2016, 2, .	2.4	11
44	Novel oxyfluorophosphate glasses and glass-ceramics. Journal of Non-Crystalline Solids, 2016, 445-446, 40-44.	3.1	21
45	Ag-doped phosphate bioactive glasses: thermal, structural and in-vitro dissolution properties. Biomedical Glasses, 2016, 2, .	2.4	18
46	Thermal, structural and optical properties of Er3+ doped phosphate glasses containing silver nanoparticles. Journal of Non-Crystalline Solids, 2016, 438, 67-73.	3.1	34
47	Effect of the glass melting condition on the processing of phosphate-based glass–ceramics with persistent luminescence properties. Optical Materials, 2016, 52, 56-61.	3.6	12
48	Heat capacities of crystalline and glassy lithium metaphosphate up to the transition region. Journal of Thermal Analysis and Calorimetry, 2016, 123, 401-407.	3.6	4
49	Dissolution behavior of the bioactive glass S53P4 when sodium is replaced by potassium, and calcium with magnesium or strontium. Journal of Non-Crystalline Solids, 2016, 432, 41-46.	3.1	32
50	Er3+–Al2O3 nanoparticles doping of borosilicate glass. Bulletin of Materials Science, 2015, 38, 1407-1410.	1.7	8
51	Crystallization behavior of phosphate glasses and its impact on the glasses' bioactivity. Journal of Materials Science, 2015, 50, 3091-3102.	3.7	36
52	Processing and characterization of novel borophosphate glasses and fibers for medical applications. Journal of Non-Crystalline Solids, 2015, 425, 52-60.	3.1	45
53	Processing and characterization of phosphate glasses containing CaAl2O4:Eu2+,Nd3+ and SrAl2O4:Eu2+,Dy3+ microparticles. Journal of the European Ceramic Society, 2015, 35, 3863-3871.	5.7	28
54	The influence of SrO and CaO in silicate and phosphate bioactive glasses on human gingival fibroblasts. Journal of Materials Science: Materials in Medicine, 2015, 26, 196.	3.6	35

4

#	Article	IF	CITATIONS
55	Erbium-doped borosilicate glasses containing various amounts of P2O5 and Al2O3: Influence of the silica content on the structure and thermal, physical, optical and luminescence properties. Materials Research Bulletin, 2015, 70, 47-54.	5.2	6
56	Influence of P2O5 and Al2O3 content on the structure of erbium-doped borosilicate glasses and on their physical, thermal, optical and luminescence properties. Materials Research Bulletin, 2015, 63, 41-50.	5.2	18
57	New alternative route for the preparation of phosphate glasses with persistent luminescence properties. Journal of the European Ceramic Society, 2015, 35, 1255-1261.	5.7	25
58	Blood and fibroblast responses to thermoset Bis <scp>GMA</scp> – <scp>TEGDMA</scp> /glass fiberâ€reinforced composite implants <i>in vitro</i> . Clinical Oral Implants Research, 2014, 25, 843-851.	4.5	16
59	Phosphate-based glass fiber vs. bulk glass: Change in fiber optical response to probe in vitro glass reactivity. Materials Science and Engineering C, 2014, 37, 251-257.	7.3	27
60	In vitro blood and fibroblast responses to BisGMA–TEGDMA/bioactive glass composite implants. Journal of Materials Science: Materials in Medicine, 2014, 25, 151-162.	3.6	11
61	Influence of SrO substitution for CaO on the properties of bioactive glass S53P4. Journal of Materials Science: Materials in Medicine, 2014, 25, 657-668.	3.6	71
62	Effect of partial crystallization on the thermal, optical, structural and Er3+ luminescence properties of silicate glasses. Materials Chemistry and Physics, 2014, 147, 1099-1109.	4.0	9
63	Thermal and structural characterization of erbium-doped borosilicate fibers with low silica content containing various amounts of P2O5 and Al2O3. Optical Materials, 2014, 37, 87-92.	3.6	4
64	Effect of CeO2 doping on thermal, optical, structural and in vitro properties of a phosphate based bioactive glass. Journal of Non-Crystalline Solids, 2014, 402, 28-35.	3.1	16
65	Thermal properties and surface reactivity in simulated body fluid of new strontium ion-containing phosphate glasses. Journal of Materials Science: Materials in Medicine, 2013, 24, 1407-1416.	3.6	39
66	Effect of the glass composition on the chemical durability of zinc-phosphate-based glasses in aqueous solutions. Journal of Physics and Chemistry of Solids, 2013, 74, 121-127.	4.0	35
67	T–T–T behaviour of bioactive glasses 1–98 and 13–93. Journal of the European Ceramic Society, 2012, 3 2731-2738.	2, <sub>5.7</sub>	39
68	Influence of the partial substitution of CaO with MgO on the thermal properties and in vitro reactivity of the bioactive glass S53P4. Journal of Non-Crystalline Solids, 2012, 358, 2701-2707.	3.1	59
69	Phase composition and in vitro bioactivity of porous implants made of bioactive glass S53P4. Acta Biomaterialia, 2012, 8, 2331-2339.	8.3	46
70	Crystallization Mechanism of the Bioactive Glasses, 45S5 and S53P4. Journal of the American Ceramic Society, 2012, 95, 607-613.	3.8	119
71	Control of the thermal properties of slow bioresorbable glasses by boron addition. Journal of Non-Crystalline Solids, 2011, 357, 3623-3630.	3.1	30
72	Processing of Tellurite-Based Glass with Low OH Content. Journal of the American Ceramic Society, 2011, 94, 130-136.	3.8	75

JONATHAN M MASSERA

#	Article	IF	CITATIONS
73	Viscosity properties of tellurite-based glasses. Materials Research Bulletin, 2010, 45, 1861-1865.	5.2	11
74	Spatially controlled dissolution of Ag nanoparticles in irradiated SiO2 sol–gel film. Journal of Physics and Chemistry of Solids, 2010, 71, 1634-1638.	4.0	12
75	Processing and characterization of core–clad tellurite glass preforms and fibers fabricated by rotational casting. Optical Materials, 2010, 32, 582-588.	3.6	21
76	Nucleation and growth behavior of glasses in the TeO2–Bi2O3–ZnO glass system. Journal of Non-Crystalline Solids, 2010, 356, 2947-2955.	3.1	38
77	Application of Micro-thermal Analysis for Metal, Oxide, and Non-oxide Thin Film Materials. , 2009, , .		1
78	Compositional dependence of the nonlinear refractive index of new germanium-based chalcogenide glasses. Journal of Solid State Chemistry, 2009, 182, 2756-2761.	2.9	74
79	Effect of Ga and Se addition on the "near-surface―photo-response of new Ge-based chalcogenide glasses under IR femtosecond laser exposure. Optical Materials, 2009, 31, 965-969.	3.6	6
80	Estimation of peak Raman gain coefficients for Barium-Bismuth-Tellurite glasses from spontaneous Raman cross-section experiments. Optics Express, 2009, 17, 9071.	3.4	42
81	Formation and dissolution of copper-based nanoparticles in SiO2 sol–gel film using heat treatment and/or UV light exposure. Materials Research Bulletin, 2008, 43, 3130-3139.	5.2	8
82	Formation/dissolution of metallic nanoparticles in SiO2 film using cw and ns UV exposure. , 2007, , .		0
83	Effect of the substitution of S for Se on the structure and non-linear optical properties of the glasses in the system Ge0.18Ga0.05Sb0.07S0.70â^'xSex. Journal of Non-Crystalline Solids, 2006, 352, 5413-5420.	3.1	35