

Enrica Vern

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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.

121
papers

3,045
citations

31
h-index

48
g-index

131
ext. papers

3,686
ext. citations

4.5
avg, IF

5.53
L-index

#	Paper	IF	Citations
121	A unified in vitro evaluation for apatite-forming ability of bioactive glasses and their variants. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 115	4.5	203
120	Bioactive Glasses: From Parent 45S5 Composition to Scaffold-Assisted Tissue-Healing Therapies. <i>Journal of Functional Biomaterials</i> , 2018 , 9,	4.8	128
119	Antibiotic-loaded cement in orthopedic surgery: a review. <i>ISRN Orthopedics</i> , 2011 , 2011, 290851		110
118	High strength bioactive glass-ceramic scaffolds for bone regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 643-53	4.5	101
117	Bioactive sol-gel glasses: Processing, properties, and applications. <i>International Journal of Applied Ceramic Technology</i> , 2018 , 15, 841-860	2	80
116	Optimization of composition, structure and mechanical strength of bioactive 3-D glass-ceramic scaffolds for bone substitution. <i>Journal of Biomaterials Applications</i> , 2013 , 27, 872-90	2.9	77
115	In vitro study of manganese-doped bioactive glasses for bone regeneration. <i>Materials Science and Engineering C</i> , 2014 , 38, 107-18	8.3	74
114	Biocompatible glass-ceramic materials for bone substitution. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 471-8	4.5	74
113	Alkaline phosphatase grafting on bioactive glasses and glass ceramics. <i>Acta Biomaterialia</i> , 2010 , 6, 229-40	10.8	68
112	3-D high-strength glass-ceramic scaffolds containing fluoroapatite for load-bearing bone portions replacement. <i>Materials Science and Engineering C</i> , 2009 , 29, 2055-2062	8.3	67
111	Micro-CT studies on 3-D bioactive glass-ceramic scaffolds for bone regeneration. <i>Acta Biomaterialia</i> , 2009 , 5, 1328-37	10.8	66
110	Biomaterials for orbital implants and ocular prostheses: overview and future prospects. <i>Acta Biomaterialia</i> , 2014 , 10, 1064-87	10.8	62
109	Glass-based coatings on biomedical implants: a state-of-the-art review. <i>Biomedical Glasses</i> , 2017 , 3, 1-17	2.7	58
108	Glass-ceramics for cancer treatment: So close, or yet so far?. <i>Acta Biomaterialia</i> , 2019 , 83, 55-70	10.8	56
107	Processing methods for making porous bioactive glass-based scaffolds: A state-of-the-art review. <i>International Journal of Applied Ceramic Technology</i> , 2019 , 16, 1762-1796	2	53
106	Pores occlusion in MCM-41 spheres immersed in SBF and the effect on ibuprofen delivery kinetics: A quantitative model. <i>Chemical Engineering Journal</i> , 2010 , 156, 184-192	14.7	53
105	Bioactive glass-derived trabecular coating: a smart solution for enhancing osteointegration of prosthetic elements. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 2369-80	4.5	52

104	Surface properties and cell response of low metal ion release Ti-6Al-7Nb alloy after multi-step chemical and thermal treatments. <i>Biomaterials</i> , 2005 , 26, 1219-29	15.6	48
103	Foam-like scaffolds for bone tissue engineering based on a novel couple of silicate-phosphate specular glasses: synthesis and properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 2197-205	4.5	44
102	Electrophoretic Deposition of Chitosan/45S5 Bioactive Glass Composite Coatings Doped with Zn and Sr. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 159	5.8	42
101	Glass-ceramic scaffolds containing silica mesophases for bone grafting and drug delivery. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 809-20	4.5	42
100	Silver nanocluster/silica composite coatings with antibacterial properties. <i>Materials Chemistry and Physics</i> , 2010 , 120, 123-126	4.4	42
99	Antibacterial coating on polymer for space application. <i>Materials Chemistry and Physics</i> , 2012 , 135, 714-722	4.4	41
98	Bioactive glass coupling with natural polyphenols: Surface modification, bioactivity and anti-oxidant ability. <i>Applied Surface Science</i> , 2016 , 367, 237-248	6.7	40
97	Mesoporous bioactive glass as a multifunctional system for bone regeneration and controlled drug release. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 12-21	1.8	38
96	Composite films of gelatin and hydroxyapatite/bioactive glass for tissue-engineering applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010 , 21, 1207-26	3.5	37
95	Feasibility, tailoring and properties of polyurethane/bioactive glass composite scaffolds for tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 2189-95	4.5	37
94	Fe-doped bioactive glass-derived scaffolds produced by sol-gel foaming. <i>Materials Letters</i> , 2019 , 235, 207-211	3.3	33
93	Composite bone cements loaded with a bioactive and ferrimagnetic glass-ceramic: Leaching, bioactivity and cytocompatibility. <i>Materials Science and Engineering C</i> , 2015 , 53, 95-103	8.3	32
92	Fe-Doped Sol-Gel Glasses and Glass-Ceramics for Magnetic Hyperthermia. <i>Materials</i> , 2018 , 11,	3.5	32
91	Resorbable glass-ceramic phosphate-based scaffolds for bone tissue engineering: synthesis, properties, and in vitro effects on human marrow stromal cells. <i>Journal of Biomaterials Applications</i> , 2011 , 26, 465-89	2.9	31
90	Antibiotic-free composite bone cements with antibacterial and bioactive properties. A preliminary study. <i>Materials Science and Engineering C</i> , 2014 , 43, 65-75	8.3	30
89	Feasibility and tailoring of bioactive glass-ceramic scaffolds with gradient of porosity for bone grafting. <i>Journal of Biomaterials Applications</i> , 2010 , 24, 693-712	2.9	29
88	Cell Penetrating Peptide Adsorption on Magnetite and Silica Surfaces: A Computational Investigation. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 8239-46	3.4	28
87	Chemical, Mechanical, and Antibacterial Properties of Silver Nanocluster/Silica Composite Coatings Obtained by Sputtering. <i>Advanced Engineering Materials</i> , 2010 , 12, B276-B282	3.5	28

86	In vitro biocompatibility of a ferrimagnetic glass-ceramic for hyperthermia application. <i>Materials Science and Engineering C</i> , 2017 , 73, 778-787	8.3	27
85	Functionalization and Surface Modifications of Bioactive Glasses (BGs): Tailoring of the Biological Response Working on the Outermost Surface Layer. <i>Materials</i> , 2019 , 12,	3.5	27
84	Novel resorbable glass-ceramic scaffolds for hard tissue engineering: from the parent phosphate glass to its bone-like macroporous derivatives. <i>Journal of Biomaterials Applications</i> , 2014 , 28, 1287-303	2.9	27
83	PMMA-Based Bone Cements and the Problem of Joint Arthroplasty Infections: Status and New Perspectives. <i>Materials</i> , 2019 , 12,	3.5	27
82	Novel antibacterial ocular prostheses: Proof of concept and physico-chemical characterization. <i>Materials Science and Engineering C</i> , 2016 , 60, 467-474	8.3	26
81	Composite bone cements loaded with a bioactive and ferrimagnetic glass-ceramic. Part I: Morphological, mechanical and calorimetric characterization. <i>Journal of Biomaterials Applications</i> , 2014 , 29, 254-267	2.9	26
80	Bread-Derived Bioactive Porous Scaffolds: An Innovative and Sustainable Approach to Bone Tissue Engineering. <i>Molecules</i> , 2019 , 24,	4.8	24
79	Antibiotic-loaded acrylic bone cements: an in vitro study on the release mechanism and its efficacy. <i>Materials Science and Engineering C</i> , 2013 , 33, 3025-32	8.3	24
78	Surface functionalization of bioactive glasses with natural molecules of biological significance, Part I: Gallic acid as model molecule. <i>Applied Surface Science</i> , 2013 , 287, 329-340	6.7	23
77	Antibacterial Bioglass-Derived Scaffolds: Innovative Synthesis Approach and Characterization. <i>International Journal of Applied Glass Science</i> , 2016 , 7, 238-247	1.8	23
76	Robocasting of SiO-Based Bioactive Glass Scaffolds with Porosity Gradient for Bone Regeneration and Potential Load-Bearing Applications. <i>Materials</i> , 2019 , 12,	3.5	22
75	Robocasting of Bioactive SiO-PO-CaO-MgO-NaO-KO Glass Scaffolds. <i>Journal of Healthcare Engineering</i> , 2019 , 2019, 5153136	3.7	22
74	Gallic acid grafting to a ferrimagnetic bioactive glass-ceramic. <i>Journal of Non-Crystalline Solids</i> , 2016 , 432, 167-175	3.9	22
73	Copper-Doped Bioactive Glass as Filler for PMMA-Based Bone Cements: Morphological, Mechanical, Reactivity, and Preliminary Antibacterial Characterization. <i>Materials</i> , 2018 , 11,	3.5	22
72	Tumor targeting by lentiviral vectors combined with magnetic nanoparticles in mice. <i>Acta Biomaterialia</i> , 2017 , 59, 303-316	10.8	22
71	Production and Characterization of Glass-Ceramic Materials for Potential Use in Dental Applications: Thermal and Mechanical Properties, Microstructure, and In Vitro Bioactivity. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 1330	2.6	21
70	Antibacterial and bioactive composite bone cements containing surface silver-doped glass particles. <i>Biomedical Materials (Bristol)</i> , 2015 , 10, 055014	3.5	21
69	Comparison Between Bioactive Sol-Gel and Melt-Derived Glasses/Glass-Ceramics Based on the Multicomponent SiO-PO-CaO-MgO-NaO-KO System. <i>Materials</i> , 2020 , 13,	3.5	20

68	Surface functionalization of bioactive glasses with natural molecules of biological significance, part II: Grafting of polyphenols extracted from grape skin. <i>Applied Surface Science</i> , 2013 , 287, 341-348	6.7	20
67	In situ Raman study to monitor bioactive glasses reactivity. <i>Journal of Raman Spectroscopy</i> , 2008 , 39, 260-264	2.3	19
66	Bioactive and Antibacterial Glass Powders Doped with Copper by Ion-Exchange in Aqueous Solutions. <i>Materials</i> , 2016 , 9,	3.5	19
65	On the mechanism of apatite-induced precipitation on 45S5 glass pellets coated with a natural-derived polymer. <i>Applied Surface Science</i> , 2015 , 353, 137-149	6.7	18
64	A Guided Walk through the World of Mesoporous Bioactive Glasses (MBGs): Fundamentals, Processing, and Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	18
63	Biocompatibility versus peritoneal mesothelial cells of polypropylene prostheses for hernia repair, coated with a thin silica/silver layer. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 1586-1593	3.5	17
62	Biocompatibility and antibacterial effect of silver doped 3D-glass-ceramic scaffolds for bone grafting. <i>Journal of Biomaterials Applications</i> , 2011 , 25, 595-617	2.9	17
61	Shock waves induce activity of human osteoblast-like cells in bioactive scaffolds. <i>Journal of Trauma</i> , 2010 , 68, 1439-44		17
60	Reductant-free synthesis of magnetoplasmonic iron oxide-gold nanoparticles. <i>Ceramics International</i> , 2017 , 43, 15258-15265	5.1	16
59	Polypropylene prostheses coated with silver nanoclusters/silica coating obtained by sputtering: Biocompatibility and antibacterial properties. <i>Surface and Coatings Technology</i> , 2017 , 319, 326-334	4.4	15
58	Competitive Surface Colonization of Antibacterial and Bioactive Materials Doped with Strontium and/or Silver Ions. <i>Nanomaterials</i> , 2020 , 10,	5.4	15
57	Green Tea Polyphenols Coupled with a Bioactive Titanium Alloy Surface: In Vitro Characterization of Osteoinductive Behavior through a KUSA A1 Cell Study. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	15
56	Surface functionalization of 3D glass/ceramic porous scaffolds for enhanced mineralization in vitro. <i>Applied Surface Science</i> , 2013 , 271, 412-420	6.7	15
55	Monodisperse Mesoporous Silica Spheres Inside a Bioactive Macroporous Glass/Ceramic Scaffold. <i>Advanced Engineering Materials</i> , 2010 , 12, B256-B259	3.5	15
54	Bioactivity of degradable polymer sutures coated with bioactive glass. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 893-9	4.5	15
53	Innovative superparamagnetic iron-oxide nanoparticles coated with silica and conjugated with linoleic acid: Effect on tumor cell growth and viability. <i>Materials Science and Engineering C</i> , 2017 , 76, 439-447	8.3	14
52	Tumor Targeting by Monoclonal Antibody Functionalized Magnetic Nanoparticles. <i>Nanomaterials</i> , 2019 , 9,	5.4	14
51	Antibiotic loading on bioactive glasses and glass-ceramics: an approach to surface modification. <i>Journal of Biomaterials Applications</i> , 2013 , 28, 308-19	2.9	14

50	Bioactive Glasses with Low Ca/P Ratio and Enhanced Bioactivity. <i>Materials</i> , 2016 , 9,	3.5	14
49	Hydroxyapatite for Biomedical Applications: A Short Overview. <i>Ceramics</i> , 2021 , 4, 542-563	1.7	14
48	Surface Functionalization of Bioactive Glasses with Polyphenols from <i>Padina pavonica</i> Algae and In Situ Reduction of Silver Ions: Physico-Chemical Characterization and Biological Response. <i>Coatings</i> , 2019 , 9, 394	2.9	13
47	Digital light processing stereolithography of hydroxyapatite scaffolds with bone-like architecture, permeability, and mechanical properties. <i>Journal of the American Ceramic Society</i> ,	3.8	13
46	Composites bone cements with different viscosities loaded with a bioactive and antibacterial glass. <i>Journal of Materials Science</i> , 2017 , 52, 5133-5146	4.3	12
45	Crystallization behavior of SiO ₂ B ₂ O ₅ Ta ₂ O ₅ MgO-Na ₂ O-K ₂ O bioactive glass powder. <i>Biomedical Glasses</i> , 2019 , 5, 46-52	2.7	12
44	Dolomite-Foamed Bioactive Silicate Scaffolds for Bone Tissue Repair. <i>Materials</i> , 2020 , 13,	3.5	12
43	Mechanical characterization of pore-graded bioactive glass scaffolds produced by robocasting. <i>Biomedical Glasses</i> , 2019 , 5, 140-147	2.7	11
42	Electrospun Filaments Embedding Bioactive Glass Particles with Ion Release and Enhanced Mineralization. <i>Nanomaterials</i> , 2019 , 9,	5.4	10
41	Development and Characterization of PEEK/B ₂ O ₃ -Doped 45S5 Bioactive Glass Composite Coatings Obtained by Electrophoretic Deposition. <i>Key Engineering Materials</i> , 2015 , 654, 165-169	0.4	10
40	Surface Activation of a Ferrimagnetic Glass-Ceramic for Antineoplastic Drugs Grafting. <i>Advanced Engineering Materials</i> , 2010 , 12, B309-B319	3.5	10
39	Composite bone cements for hyperthermia: modeling and characterization of magnetic, calorimetric and in vitro heating properties. <i>Ceramics International</i> , 2017 , 43, 4831-4840	5.1	9
38	PPARs are mediators of anti-cancer properties of superparamagnetic iron oxide nanoparticles (SPIONs) functionalized with conjugated linoleic acid. <i>Chemico-Biological Interactions</i> , 2018 , 292, 9-14	5	9
37	Comprehensive assessment of bioactive glass and glass-ceramic scaffold permeability: experimental measurements by pressure wave drop, modelling and computed tomography-based analysis. <i>Acta Biomaterialia</i> , 2021 , 119, 405-418	10.8	9
36	Bioactive superparamagnetic nanoparticles for multifunctional composite bone cements. <i>Ceramics International</i> , 2019 , 45, 14533-14545	5.1	8
35	Bioactive glass and glass-ceramic orbital implants. <i>International Journal of Applied Ceramic Technology</i> , 2019 , 16, 1850-1863	2	8
34	Surface functionalization of phosphate-based bioactive glasses with 3-aminopropyltriethoxysilane (APTS). <i>Biomedical Glasses</i> , 2016 , 2,	2.7	8
33	Multifunctional ferrimagnetic glass-ceramic for the treatment of bone tumor and associated complications. <i>Journal of Materials Science</i> , 2017 , 52, 9192-9201	4.3	7

32	Magnetite and silica-coated magnetite nanoparticles are highly biocompatible on endothelial cells in vitro. <i>Biomedical Physics and Engineering Express</i> , 2017 , 3, 025015	1.5	7
31	Bioactive sol-gel glass-coated wood-derived biocarbon scaffolds. <i>Materials Letters</i> , 2018 , 232, 14-17	3.3	7
30	Magnetotransport properties of a percolating network of magnetite crystals embedded in a glass-ceramic matrix. <i>Journal of Applied Physics</i> , 2009 , 105, 083911	2.5	7
29	Tellurium: A new active element for innovative multifunctional bioactive glasses. <i>Materials Science and Engineering C</i> , 2021 , 123, 111957	8.3	7
28	In vitro comparison between commercially and manually mixed antibiotic-loaded bone cements. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2010 , 8, 166-74		7
27	Bioactive Glass and Glass-Ceramic Coatings 2012 , 107-119		6
26	In situ chemical and physical reduction of copper on bioactive glass surface. <i>Applied Surface Science</i> , 2019 , 495, 143559	6.7	5
25	Preparation and investigation of a glass in the system $Al_2O_3BiO_2CaO$ for dental applications. <i>Materials Letters</i> , 2006 , 60, 3045-3047	3.3	5
24	Foam Replica Method in the Manufacturing of Bioactive Glass Scaffolds: Out-of-Date Technology or Still Underexploited Potential?. <i>Materials</i> , 2021 , 14,	3.5	5
23	Synthesis and characterization of silica-coated superparamagnetic iron oxide nanoparticles and interaction with pancreatic cancer cells. <i>International Journal of Applied Ceramic Technology</i> , 2018 , 15, 947-960	2	4
22	In Vitro Comparison between Commercially and Manually Mixed Antibiotic-Loaded Bone Cements. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2010 , 8, 166-174		4
21	Sintering Behavior of a Six-Oxide Silicate Bioactive Glass for Scaffold Manufacturing. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8279	2.6	4
20	Antibacterial and Bioactive Composite Bone Cements. <i>Current Materials Science</i> , 2020 , 12, 144-153	1.1	3
19	Synthesis and characterization of magnetic and antibacterial nanoparticles as filler in acrylic cements for bone cancer and comorbidities therapy. <i>Ceramics International</i> , 2021 , 47, 17633-17643	5.1	3
18	Gallic acid grafting modulates the oxidative potential of ferrimagnetic bioactive glass-ceramic SC-45. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 148, 592-599	6	3
17	Biomedical Radioactive Glasses for Brachytherapy. <i>Materials</i> , 2021 , 14,	3.5	3
16	Surface Modification of Bioresorbable Phosphate Glasses for Controlled Protein Adsorption. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4483-4493	5.5	3
15	Glass-Ceramic Scaffolds and Shock Waves Effect on Cells Migration. <i>Key Engineering Materials</i> , 2007 , 361-363, 233-236	0.4	2

14	Surface functionalization of bioactive glasses and hydroxyapatite with polyphenols from organic red grape pomace. <i>Journal of the American Ceramic Society</i> ,	3.8	2
13	Magnetic Bioactive Glass Ceramics for Bone Healing and Hyperthermic Treatment of Solid Tumors 2016 , 81-112		2
12	In Vivo Evaluation of 3D-Printed Silica-Based Bioactive Glass Scaffolds for Bone Regeneration. <i>Journal of Functional Biomaterials</i> , 2022 , 13, 74	4.8	2
11	Glasses and Glass-Ceramics for Biomedical Applications. <i>Polito Springer Series</i> , 2021 , 153-201	0.4	1
10	Multifunctional Bioactive Glasses and Glass-Ceramics: Beyond Traditional Bioactivity 2019 , 35-67		1
9	Surface Functionalization of a Silica-Based Bioactive Glass with Compounds from Bud Extracts. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 96-104	5.5	1
8	Biological Evaluation of a New Sodium-Potassium Silico-Phosphate Glass for Bone Regeneration: In Vitro and In Vivo Studies. <i>Materials</i> , 2021 , 14,	3.5	1
7	Foam-Replicated Diopside/Fluorapatite/Wollastonite-Based Glass-Ceramic Scaffolds. <i>Ceramics</i> , 2022 , 5, 120-130	1.7	1
6	Magneto-plasmonic heterodimers: Evaluation of different synthesis approaches. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 1276	3.8	0
5	Antioxidant Activity of Silica-Based Bioactive Glasses. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 2309-2316	5.5	0
4	Melt-derived copper-doped ferrimagnetic glass-ceramic for tumor treatment. <i>Ceramics International</i> , 2021 , 47, 31749-31755	5.1	0
3	Glass-Ceramic Matrix/ZrO ₂ Particle Biocomposites 2005 , 146-151		
2	Bioactive Glass-Ceramic/Mesoporous Silica Composite Scaffolds for Bone Grafting and Drug Release. <i>Ceramic Transactions</i> , 123-129	0.1	
1	Enzyme Grafting to Bioactive Glasses. <i>Ceramic Transactions</i> , 133-137	0.1	