Enrica VernÃ©

List of Publications by Year
in descending order

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		94269	133063
123	4,290	37	59
papers	citations	h-index	g-index

131	131	131	4041
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Digital light processing stereolithography of hydroxyapatite scaffolds with boneâ€like architecture, permeability, and mechanical properties. Journal of the American Ceramic Society, 2022, 105, 1648-1657.	1.9	54
2	Surface functionalization of bioactive glasses and hydroxyapatite with polyphenols from organic red grape pomace. Journal of the American Ceramic Society, 2022, 105, 1697-1710.	1.9	11
3	Magnetoâ€plasmonic heterodimers: Evaluation of different synthesis approaches. Journal of the American Ceramic Society, 2022, 105, 1276.	1.9	3
4	Foam-Replicated Diopside/Fluorapatite/Wollastonite-Based Glassâ€“Ceramic Scaffolds. Ceramics, 2022, 5, 120-130.	1.0	9
5	In situ reduction of Ag on magnetic nanoparticles with gallic acid: effect of the synthesis parameters on morphology. Nanomedicine, 2022, 17, 499-511.	1.7	2
6	In Vivo Evaluation of 3D-Printed Silica-Based Bioactive Glass Scaffolds for Bone Regeneration. Journal of Functional Biomaterials, 2022, 13, 74.	1.8	11
7	High-reliability data processing and calculation of microstructural parameters in hydroxyapatite scaffolds produced by vat photopolymerization. Journal of the European Ceramic Society, 2022, 42, 6206-6212.	2.8	12
8	Surface Functionalization of a Silica-Based Bioactive Glass with Compounds from Rosa canina Bud Extracts. ACS Biomaterials Science and Engineering, 2021, 7, 96-104.	2.6	2
9	Comprehensive assessment of bioactive glass and glass-ceramic scaffold permeability: experimental measurements by pressure wave drop, modelling and computed tomography-based analysis. Acta Biomaterialia, 2021, 119, 405-418.	4.1	21
10	Biomedical Radioactive Glasses for Brachytherapy. Materials, 2021, 14, 1131.	1.3	10
11	Antioxidant Activity of Silica-Based Bioactive Glasses. ACS Biomaterials Science and Engineering, 2021, 7, 2309-2316.	2.6	11
12	Tellurium: A new active element for innovative multifunctional bioactive glasses. Materials Science and Engineering C, 2021, 123, 111957.	3.8	17
13	Foam Replica Method in the Manufacturing of Bioactive Glass Scaffolds: Out-of-Date Technology or Still Underexploited Potential?. Materials, 2021, 14, 2795.	1.3	29
14	Synthesis and characterization of magnetic and antibacterial nanoparticles as filler in acrylic cements for bone cancer and comorbidities therapy. Ceramics International, 2021, 47, 17633-17643.	2.3	8
15	Surface Modification of Bioresorbable Phosphate Glasses for Controlled Protein Adsorption. ACS Biomaterials Science and Engineering, 2021, 7, 4483-4493.	2.6	10
16	Biological Evaluation of a New Sodium-Potassium Silico-Phosphate Glass for Bone Regeneration: In Vitro and In Vivo Studies. Materials, 2021, 14, 4546.	1.3	7
17	Hydroxyapatite for Biomedical Applications: A Short Overview. Ceramics, 2021, 4, 542-563.	1.0	88
18	Melt-derived copper-doped ferrimagnetic glass-ceramic for tumor treatment. Ceramics International, 2021, 47, 31749-31755.	2.3	3

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19	Sintering Behavior of a Six-Oxide Silicate Bioactive Glass for Scaffold Manufacturing. Applied Sciences (Switzerland), 2020, 10, 8279.	1.3	10
20	Competitive Surface Colonization of Antibacterial and Bioactive Materials Doped with Strontium and/or Silver Ions. Nanomaterials, 2020, 10, 120.	1.9	38
21	Comparison between Bioactive Sol-Gel and Melt-Derived Glasses/Glass-Ceramics Based on the Multicomponent SiO2â€“P2O5â€“CaOâ€“MgOâ€“Na2Oâ€“K2O System. Materials, 2020, 13, 540.	1.3	57
22	Dolomite-Foamed Bioactive Silicate Scaffolds for Bone Tissue Repair. Materials, 2020, 13, 628.	1.3	27
23	Antibacterial and Bioactive Composite Bone Cements. Current Materials Science, 2020, 12, 144-153.	0.2	7
24	A Guided Walk through the World of Mesoporous Bioactive Glasses (MBGs): Fundamentals, Processing, and Applications. Nanomaterials, 2020, 10, 2571.	1.9	40
25	Bread-Derived Bioactive Porous Scaffolds: An Innovative and Sustainable Approach to Bone Tissue Engineering. Molecules, 2019, 24, 2954.	1.7	34
26	In situ chemical and physical reduction of copper on bioactive glass surface. Applied Surface Science, 2019, 495, 143559.	3.1	11
27	Functionalization and Surface Modifications of Bioactive Glasses (BGs): Tailoring of the Biological Response Working on the Outermost Surface Layer. Materials, 2019, 12, 3696.	1.3	45
28	Tumor Targeting by Monoclonal Antibody Functionalized Magnetic Nanoparticles. Nanomaterials, 2019, 9, 1575.	1.9	26
29	Robocasting of SiO2-Based Bioactive Glass Scaffolds with Porosity Gradient for Bone Regeneration and Potential Load-Bearing Applications. Materials, 2019, 12, 2691.	1.3	39
30	Processing methods for making porous bioactive glassâ€based scaffoldsâ€”A stateâ€ofâ€theâ€art review. International Journal of Applied Ceramic Technology, 2019, 16, 1762-1796.	1.1	93
31	Electrospun Filaments Embedding Bioactive Glass Particles with Ion Release and Enhanced Mineralization. Nanomaterials, 2019, 9, 182.	1.9	17
32	Surface Functionalization of Bioactive Glasses with Polyphenols from Padina pavonica Algae and In Situ Reduction of Silver Ions: Physico-Chemical Characterization and Biological Response. Coatings, 2019, 9, 394.	1.2	17
33	Crystallization behavior of SiO2â€“P2O5â€“CaOâ€“MgOâ€“Na2Oâ€“K2O bioactive glass powder. Biomedical Glasses, 2019, 5, 46-52.	2.4	16
34	Robocasting of Bioactive SiO₂-P₂O₅-CaO-MgO-Na₂O-K₂O Glass Scaffolds. Journal of Healthcare Engineering, 2019, 2019, 1-12.	1.1	32
35	Bioactive superparamagnetic nanoparticles for multifunctional composite bone cements. Ceramics International, 2019, 45, 14533-14545.	2.3	10
36	Bioactive glass and glassâ€ceramic orbital implants. International Journal of Applied Ceramic Technology, 2019, 16, 1850-1863.	1.1	12

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37	Mechanical characterization of pore-graded bioactive glass scaffolds produced by robocasting. Biomedical Glasses, 2019, 5, 140-147.	2.4	16
38	PMMA-Based Bone Cements and the Problem of Joint Arthroplasty Infections: Status and New Perspectives. Materials, 2019, 12, 4002.	1.3	62
39	Glass-ceramics for cancer treatment: So close, or yet so far?. Acta Biomaterialia, 2019, 83, 55-70.	4.1	85
40	Fe-doped bioactive glass-derived scaffolds produced by sol-gel foaming. Materials Letters, 2019, 235, 207-211.	1.3	47
41	Multifunctional Bioactive Glasses and Glass-Ceramics: Beyond â€˜Traditionalâ€™ Bioactivity. , 2019, , 35-67.		1
42	Synthesis and characterization of silicaâ€coated superparamagnetic iron oxide nanoparticles and interaction with pancreatic cancer cells. International Journal of Applied Ceramic Technology, 2018, 15, 947-960.	1.1	7
43	Bioactive solâ€gel glasses: Processing, properties, and applications. International Journal of Applied Ceramic Technology, 2018, 15, 841-860.	1.1	124
44	Green Tea Polyphenols Coupled with a Bioactive Titanium Alloy Surface: In Vitro Characterization of Osteoinductive Behavior through a KUSA A1 Cell Study. International Journal of Molecular Sciences, 2018, 19, 2255.	1.8	28
45	Fe-Doped Sol-Gel Glasses and Glass-Ceramics for Magnetic Hyperthermia. Materials, 2018, 11, 173.	1.3	45
46	PPARs are mediators of anti-cancer properties of superparamagnetic iron oxide nanoparticles (SPIONs) functionalized with conjugated linoleic acid. Chemico-Biological Interactions, 2018, 292, 9-14.	1.7	13
47	Bioactive Glasses: From Parent 45S5 Composition to Scaffold-Assisted Tissue-Healing Therapies. Journal of Functional Biomaterials, 2018, 9, 24.	1.8	202
48	Copper-Doped Bioactive Glass as Filler for PMMA-Based Bone Cements: Morphological, Mechanical, Reactivity, and Preliminary Antibacterial Characterization. Materials, 2018, 11, 961.	1.3	38
49	Bioactive sol-gel glass-coated wood-derived biocarbon scaffolds. Materials Letters, 2018, 232, 14-17.	1.3	7
50	Biocompatibility versus peritoneal mesothelial cells of polypropylene prostheses for hernia repair, coated with a thin silica/silver layer. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 1586-1593.	1.6	23
51	Composites bone cements with different viscosities loaded with a bioactive and antibacterial glass. Journal of Materials Science, 2017, 52, 5133-5146.	1.7	19
52	Innovative superparamagnetic iron-oxide nanoparticles coated with silica and conjugated with linoleic acid: Effect on tumor cell growth and viability. Materials Science and Engineering C, 2017, 76, 439-447.	3.8	18
53	Multifunctional ferrimagnetic glassâ€“ceramic for the treatment of bone tumor and associated complications. Journal of Materials Science, 2017, 52, 9192-9201.	1.7	11
54	Glass-based coatings on biomedical implants: a state-of-the-art review. Biomedical Glasses, 2017, 3, 1-17.	2.4	76

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55	Polypropylene prostheses coated with silver nanoclusters/silica coating obtained by sputtering: Biocompatibility and antibacterial properties. Surface and Coatings Technology, 2017, 319, 326-334.	2.2	18
56	Magnetite and silica-coated magnetite nanoparticles are highly biocompatible on endothelial cells in vitro. Biomedical Physics and Engineering Express, 2017, 3, 025015.	0.6	11
57	In vitro biocompatibility of a ferrimagnetic glass-ceramic for hyperthermia application. Materials Science and Engineering C, 2017, 73, 778-787.	3.8	31
58	Composite bone cements for hyperthermia: modeling and characterization of magnetic, calorimetric and in vitro heating properties. Ceramics International, 2017, 43, 4831-4840.	2.3	13
59	Reductant-free synthesis of magnetoplasmonic iron oxide-gold nanoparticles. Ceramics International, 2017, 43, 15258-15265.	2.3	21
60	Guest editorsâ€™ preface. Journal of Materials Science, 2017, 52, 8691-8694.	1.7	0
61	Tumor targeting by lentiviral vectors combined with magnetic nanoparticles in mice. Acta Biomaterialia, 2017, 59, 303-316.	4.1	33
62	Production and Characterization of Glass-Ceramic Materials for Potential Use in Dental Applications: Thermal and Mechanical Properties, Microstructure, and In Vitro Bioactivity. Applied Sciences (Switzerland), 2017, 7, 1330.	1.3	31
63	Bioactive and Antibacterial Glass Powders Doped with Copper by Ion-Exchange in Aqueous Solutions. Materials, 2016, 9, 405.	1.3	30
64	Bioactive Glasses with Low Ca/P Ratio and Enhanced Bioactivity. Materials, 2016, 9, 226.	1.3	24
65	Antibacterial Bioglassâ€Derived Scaffolds: Innovative Synthesis Approach and Characterization. International Journal of Applied Glass Science, 2016, 7, 238-247.	1.0	30
66	Surface functionalization of phosphate-based bioactive glasses with 3-aminopropyltriethoxysilane (APTS). Biomedical Glasses, 2016, 2, .	2.4	11
67	Gallic acid grafting modulates the oxidative potential of ferrimagnetic bioactive glass-ceramic SC-45. Colloids and Surfaces B: Biointerfaces, 2016, 148, 592-599.	2.5	7
68	Gallic acid grafting to a ferrimagnetic bioactive glass-ceramic. Journal of Non-Crystalline Solids, 2016, 432, 167-175.	1.5	26
69	Bioactive glass coupling with natural polyphenols: Surface modification, bioactivity and anti-oxidant ability. Applied Surface Science, 2016, 367, 237-248.	3.1	53
70	Novel antibacterial ocular prostheses: Proof of concept and physico-chemical characterization. Materials Science and Engineering C, 2016, 60, 467-474.	3.8	29
71	Electrophoretic Deposition of Chitosan/45S5 Bioactive Glass Composite Coatings Doped with Zn and Sr. Frontiers in Bioengineering and Biotechnology, 2015, 3, 159.	2.0	59
72	Antibacterial and bioactive composite bone cements containing surface silver-doped glass particles. Biomedical Materials (Bristol), 2015, 10, 055014.	1.7	31

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73	A unified in vitro evaluation for apatite-forming ability of bioactive glasses and their variants. Journal of Materials Science: Materials in Medicine, 2015, 26, 115.	1.7	275
74	On the mechanism of apatite-induced precipitation on 45S5 glass pellets coated with a natural-derived polymer. Applied Surface Science, 2015, 353, 137-149.	3.1	20
75	Cell Penetrating Peptide Adsorption on Magnetite and Silica Surfaces: A Computational Investigation. Journal of Physical Chemistry B, 2015, 119, 8239-8246.	1.2	33
76	Composite bone cements loaded with a bioactive and ferrimagnetic glass-ceramic: Leaching, bioactivity and cytocompatibility. Materials Science and Engineering C, 2015, 53, 95-103.	3.8	42
77	Composite bone cements loaded with a bioactive and ferrimagnetic glass-ceramic. Part I: Morphological, mechanical and calorimetric characterization. Journal of Biomaterials Applications, 2014, 29, 254-267.	1.2	30
78	Novel resorbable glass-ceramic scaffolds for hard tissue engineering: From the parent phosphate glass to its bone-like macroporous derivatives. Journal of Biomaterials Applications, 2014, 28, 1287-1303.	1.2	29
79	Biomaterials for orbital implants and ocular prostheses: Overview and future prospects. Acta Biomaterialia, 2014, 10, 1064-1087.	4.1	87
80	In vitro study of manganese-doped bioactive glasses for bone regeneration. Materials Science and Engineering C, 2014, 38, 107-118.	3.8	105
81	Antibiotic-free composite bone cements with antibacterial and bioactive properties. A preliminary study. Materials Science and Engineering C, 2014, 43, 65-75.	3.8	39
82	Surface functionalization of bioactive glasses with natural molecules of biological significance, part II: Grafting of polyphenols extracted from grape skin. Applied Surface Science, 2013, 287, 341-348.	3.1	25
83	Antibiotic-loaded acrylic bone cements: An in vitro study on the release mechanism and its efficacy. Materials Science and Engineering C, 2013, 33, 3025-3032.	3.8	29
84	Surface functionalization of 3D glassâ€“ceramic porous scaffolds for enhanced mineralization in vitro. Applied Surface Science, 2013, 271, 412-420.	3.1	16
85	Antibiotic loading on bioactive glasses and glass-ceramics: An approach to surface modification. Journal of Biomaterials Applications, 2013, 28, 308-319.	1.2	17
86	Surface functionalization of bioactive glasses with natural molecules of biological significance, Part I: Gallic acid as model molecule. Applied Surface Science, 2013, 287, 329-340.	3.1	29
87	Optimization of composition, structure and mechanical strength of bioactive 3-D glass-ceramic scaffolds for bone substitution. Journal of Biomaterials Applications, 2013, 27, 872-890.	1.2	86
88	Surface Functionalization of Bioactive and Ferrimagnetic Glass-Ceramics (SC45) with Gallic Acid and Folic Acid. , 2013, , .		0
89	Mesoporous Bioactive Glass as a Multifunctional System for Bone Regeneration and Controlled Drug Release. Journal of Applied Biomaterials and Functional Materials, 2012, 10, 12-21.	0.7	42
90	Materials for Healthcare Applications Symposium, EUROMAT 2011 (Montpellier, France, 12â€“15 September) Tj ETQq0 0 0 rgBT /Overlo	1.7	0

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91	Antibacterial coating on polymer for space application. Materials Chemistry and Physics, 2012, 135, 714-722.	2.0	46
92	Bioactive glass-derived trabecular coating: a smart solution for enhancing osteointegration of prosthetic elements. Journal of Materials Science: Materials in Medicine, 2012, 23, 2369-2380.	1.7	57
93	Biocompatibility and Antibacterial Effect of Silver Doped 3D-Glass-Ceramic Scaffolds for Bone Grafting. Journal of Biomaterials Applications, 2011, 25, 595-617.	1.2	18
94	Antibiotic-Loaded Cement in Orthopedic Surgery: A Review. ISRN Orthopedics, 2011, 2011, 1-8.	0.7	149
95	Resorbable Glassâ€“Ceramic Phosphate-based Scaffolds for Bone Tissue Engineering: Synthesis, Properties, andIn vitroEffects on Human Marrow Stromal Cells. Journal of Biomaterials Applications, 2011, 26, 465-489.	1.2	34
96	Shock Waves Induce Activity of Human Osteoblast-Like Cells in Bioactive Scaffolds. Journal of Trauma, 2010, 68, 1439-1444.	2.3	20
97	Silver nanoclusterâ€“silica composite coatings with antibacterial properties. Materials Chemistry and Physics, 2010, 120, 123-126.	2.0	50
98	Monodisperse Mesoporous Silica Spheres Inside a Bioactive Macroporous Glassâ€“Ceramic Scaffold. Advanced Engineering Materials, 2010, 12, B256.	1.6	15
99	Chemical, Mechanical, and Antibacterial Properties of Silver Nanoclusterâ€“Silica Composite Coatings Obtained by Sputtering. Advanced Engineering Materials, 2010, 12, B276.	1.6	31
100	Surface Activation of a Ferrimagnetic Glassâ€“Ceramic for Antineoplastic Drugs Grafting. Advanced Engineering Materials, 2010, 12, B309.	1.6	14
101	Alkaline phosphatase grafting on bioactive glasses and glass ceramics. Acta Biomaterialia, 2010, 6, 229-240.	4.1	74
102	Pores occlusion in MCM-41 spheres immersed in SBF and the effect on ibuprofen delivery kinetics: A quantitative model. Chemical Engineering Journal, 2010, 156, 184-192.	6.6	55
103	Composite Films of Gelatin and Hydroxyapatite/Bioactive Glass for Tissue-Engineering Applications. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 1207-1226.	1.9	41
104	In Vitro Comparison between Commercially and Manually Mixed Antibiotic-Loaded Bone Cements. Journal of Applied Biomaterials and Biomechanics, 2010, 8, 166-174.	0.4	13
105	Feasibility and Tailoring of Bioactive Glass-ceramic Scaffolds with Gradient of Porosity for Bone Grafting. Journal of Biomaterials Applications, 2010, 24, 693-712.	1.2	33
106	In vitro comparison between commercially and manually mixed antibiotic-loaded bone cements. Journal of Applied Biomaterials and Biomechanics, 2010, 8, 166-74.	0.4	8
107	Magnetotransport properties of a percolating network of magnetite crystals embedded in a glass-ceramic matrix. Journal of Applied Physics, 2009, 105, 083911.	1.1	7
108	High strength bioactive glass-ceramic scaffolds for bone regeneration. Journal of Materials Science: Materials in Medicine, 2009, 20, 643-653.	1.7	107

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109	Glassâ€“ceramic scaffolds containing silica mesophases for bone grafting and drug delivery. Journal of Materials Science: Materials in Medicine, 2009, 20, 809-820.	1.7	46
110	Feasibility, tailoring and properties of polyurethane/bioactive glass composite scaffolds for tissue engineering. Journal of Materials Science: Materials in Medicine, 2009, 20, 2189-2195.	1.7	40
111	Foam-like scaffolds for bone tissue engineering based on a novel couple of silicate-phosphate specular glasses: synthesis and properties. Journal of Materials Science: Materials in Medicine, 2009, 20, 2197-2205.	1.7	48
112	3-D high-strength glassâ€“ceramic scaffolds containing fluoroapatite for load-bearing bone portions replacement. Materials Science and Engineering C, 2009, 29, 2055-2062.	3.8	73
113	Micro-CT studies on 3-D bioactive glassâ€“ceramic scaffolds for bone regeneration. Acta Biomaterialia, 2009, 5, 1328-1337.	4.1	79
114	Glass-Ceramic Scaffolds and Shock Waves Effect on Cells Migration. Key Engineering Materials, 2008, 361-363, 233-236.	0.4	2
115	Biocompatible glassâ€“ceramic materials for bone substitution. Journal of Materials Science: Materials in Medicine, 2008, 19, 471-478.	1.7	81
116	In situ Raman study to monitor bioactive glasses reactivity. Journal of Raman Spectroscopy, 2008, 39, 260-264.	1.2	24
117	Preparation and investigation of a glass in the system Al2O3â€“SiO2â€“CaO for dental applications. Materials Letters, 2006, 60, 3045-3047.	1.3	5
118	Surface properties and cell response of low metal ion release Ti-6Al-7Nb alloy after multi-step chemical and thermal treatments. Biomaterials, 2005, 26, 1219-1229.	5.7	54
119	Glass-Ceramic Matrix/ZrO2 Particle Biocomposites. , 2005, , 146-151.		0
120	Bioactivity of degradable polymer sutures coated with bioactive glass. Journal of Materials Science: Materials in Medicine, 2004, 15, 893-899.	1.7	15
121	Development and Characterization of PEEK/B₂O₃-Doped 45S5 Bioactive Glass Composite Coatings Obtained by Electrophoretic Deposition. Key Engineering Materials, 0, 654, 165-169.	0.4	11
122	Natural Coatings on Titanium Surfaces to Improve Their Biological Response. , 0, , .		0
123	Chapter 9. Surface Functionalization of Bioactive Glasses: Reactive Groups, Biomolecules and Drugs on Bioactive Surfaces for Smart and Functional Biomaterials. RSC Smart Materials, 0, , 221-235.	0.1	1