Gigliola Lusvardi

List of Publications by Year
in descending order

77 papers	2,559 citations	172386 29 h-index	206029 48 g-index
79 all docs	79 docs citations	79 times ranked	2488 citing authors

#	Article	IF	Citations
1	Mesoporous bioactive scaffolds prepared with cerium-, gallium- and zinc-containing glasses. Acta Biomaterialia, 2013, 9, 4836-4844.	4.1	126
2	Evidence of Catalase Mimetic Activity in Ce³⁺/Ce⁴⁺ Doped Bioactive Glasses. Journal of Physical Chemistry B, 2015, 119, 4009-4019.	1.2	119
3	Magnesium- and strontium-co-substituted hydroxyapatite: the effects of doped-ions on the structure and chemico-physical properties. Journal of Materials Science: Materials in Medicine, 2012, 23, 2867-2879.	1.7	115
4	Fluoride-containing bioactive glasses: Surface reactivity in simulated body fluids solutions. Acta Biomaterialia, 2009, 5, 3548-3562.	4.1	112
5	Elucidation of the Structural Role of Fluorine in Potentially Bioactive Glasses by Experimental and Computational Investigation. Journal of Physical Chemistry B, 2008, 112, 12730-12739.	1.2	107
6	Sr-containing hydroxyapatite: morphologies of HA crystals and bioactivity on osteoblast cells. Materials Science and Engineering C, 2013, 33, 1132-1142.	3.8	102
7	Qualitative and Quantitative Structureâˆ’Property Relationships Analysis of Multicomponent Potential Bioglasses. Journal of Physical Chemistry B, 2005, 109, 4989-4998.	1.2	98
8	Synthesis and characterization of cerium-doped glasses and in vitro evaluation of bioactivity. Journal of Non-Crystalline Solids, 2003, 316, 198-216.	1.5	95
9	Quantitative Structureâˆ’Property Relationships of Potentially Bioactive Fluoro Phospho-silicate Glasses. Journal of Physical Chemistry B, 2009, 113, 10331-10338.	1.2	80
10	Synthesis, Characterization, and Molecular Dynamics Simulation Of Na2Oâˆ’CaOâˆ’SiO2âˆ’ZnO Glasses. Journal of Physical Chemistry B, 2002, 106, 9753-9760.	1.2	76
11	Structural and in vitro study of cerium, gallium and zinc containing solâ€“gel bioactive glasses. Journal of Materials Chemistry, 2012, 22, 13698.	6.7	71
12	In vitro and in vivo behaviour of zinc-doped phosphosilicate glasses. Acta Biomaterialia, 2009, 5, 419-428.	4.1	68
13	Curcumin release from cerium, gallium and zinc containing mesoporous bioactive glasses. Microporous and Mesoporous Materials, 2013, 180, 92-101.	2.2	64
14	Synthesis and Characterization of TiO2 Nanoparticles for the Reduction of Water Pollutants. Materials, 2017, 10, 1208.	1.3	64
15	Medium-range order in phospho-silicate bioactive glasses: Insights from MAS-NMR spectra, chemical durability experiments and molecular dynamics simulations. Journal of Non-Crystalline Solids, 2008, 354, 84-89.	1.5	54
16	Recycling of the product of thermal inertization of cementâ€“asbestos for various industrial applications. Waste Management, 2011, 31, 91-100.	3.7	53
17	Properties of Zinc Releasing Surfaces for Clinical Applications. Journal of Biomaterials Applications, 2008, 22, 505-526.	1.2	52
18	Removal of cadmium ion by means of synthetic hydroxyapatite. Waste Management, 2002, 22, 853-857.	3.7	51

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19	Crystal structure of lead hydroxyapatite from powder X-ray diffraction data. Inorganica Chimica Acta, 1995, 236, 209-212.	1.2	47
20	The effect of composition on structural, thermal, redox and bioactive properties of Ce-containing glasses. Materials and Design, 2016, 97, 73-85.	3.3	43
21	Cerium-doped bioactive 45S5 glasses: spectroscopic, redox, bioactivity and biocatalytic properties. Journal of Materials Science, 2017, 52, 8845-8857.	1.7	43
22	Gallium-containing phosphoâ€silicate glasses: Synthesis and in vitro bioactivity. Materials Science and Engineering C, 2012, 32, 1401-1406.	3.8	42
23	Cerium Containing Bioactive Glasses: A Review. ACS Biomaterials Science and Engineering, 2021, 7, 4388-4401.	2.6	36
24	On the dissolution/reaction of small-grain BioglassÂ® 45S5 and F-modified bioactive glasses in artificial saliva (AS). Applied Surface Science, 2011, 257, 4185-4195.	3.1	34
25	Thermodynamic aspects of the adsorption of hexametaphosphate on kaolinite. Journal of Colloid and Interface Science, 2005, 292, 322-329.	5.0	33
26	Biodurability and release of metals during the dissolution of chrysotile, crocidolite and fibrous erionite. Environmental Research, 2019, 171, 550-557.	3.7	33
27	A Computational Tool for the Prediction of Crystalline Phases Obtained from Controlled Crystallization of Glasses. Journal of Physical Chemistry B, 2005, 109, 21586-21592.	1.2	32
28	Functionalization of Sol Gel Bioactive Glasses Carrying Au Nanoparticles: Selective Au Affinity for Amino and Thiol Ligand Groups. Langmuir, 2010, 26, 18600-18605.	1.6	32
29	The role of coordination chemistry in the development of innovative gallium-based bioceramics: the case of curcumin. Journal of Materials Chemistry, 2011, 21, 5027.	6.7	32
30	Highly-Bioreactive Silica-Based Mesoporous Bioactive Glasses Enriched with Gallium(III). Materials, 2018, 11, 367.	1.3	29
31	Coordination properties of N-p-tolylsulfonyl-l-glutamic acid toward metalII. Polyhedron, 1999, 18, 1975-1982.	1.0	28
32	Bioactive Glasses Containing Au Nanoparticles. Effect of Calcination Temperature on Structure, Morphology, and Surface Properties. Langmuir, 2010, 26, 10303-10314.	1.6	28
33	Biological effects and comparative cytotoxicity of thermal transformed asbestos-containing materials in a human alveolar epithelial cell line. Toxicology in Vitro, 2010, 24, 1521-1531.	1.1	27
34	Influence of Small Additions of Al2O3 on the Properties of the Na2OÂ·3SiO2 Glass. Journal of Physical Chemistry B, 2001, 105, 919-927.	1.2	25
35	Release of ions from kaolinite dispersed in deflocculant solutions. Applied Clay Science, 2007, 36, 271-278.	2.6	24
36	Multitechnique approach to Vâ€"ZrSiO4 pigment characterization and synthesis optimization. Journal of the European Ceramic Society, 2007, 27, 1743-1750.	2.8	23

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37	Synthesis and characterization of bioactive glasses functionalized with Cu nanoparticles and organic molecules. Journal of the European Ceramic Society, 2012, 32, 2777-2783.	2.8	23
38	Towards the controlled release of metal nanoparticles from biomaterials: Physico-chemical, morphological and bioactivity features of Cu-containing solâ€“gel glasses. Applied Surface Science, 2013, 283, 240-248.	3.1	23
39	Gallium-containing phosphosilicate glasses: Functionalization and in-vitro bioactivity. Materials Science and Engineering C, 2013, 33, 3190-3196.	3.8	23
40	A combined experimental and computational approach to (Na2O)1âˆ’xÂ·CaOÂ·(ZnO)xÂ·2SiO2 glasses characterization. Journal of Non-Crystalline Solids, 2004, 345-346, 710-714.	1.5	22
41	Ga-Modified (Siâ€“Caâ€“P) Solâ€“Gel Glasses: Possible Relationships between Surface Chemical Properties and Bioactivity. Journal of Physical Chemistry C, 2011, 115, 22461-22474.	1.5	21
42	Cytocompatibility of Potential Bioactive Cerium-Doped Glasses based on 45S5. Materials, 2019, 12, 594.	1.3	21
43	Crystallization Kinetics of Bioactive Glasses in the ZnOâˆ’Na₂Oâˆ’CaOâˆ’SiO₂ System. Journal of Physical Chemistry A, 2007, 111, 8401-8408.	1.1	20
44	New Formulation of Functionalized Bioactive Glasses to Be Used as Carriers for the Development of pH-Stimuli Responsive Biomaterials for Bone Diseases. Langmuir, 2014, 30, 4703-4715.	1.6	19
45	Biomimetic fabrication of antibacterial calcium phosphates mediated by polydopamine. Journal of Inorganic Biochemistry, 2018, 178, 43-53.	1.5	19
46	Mesoporous bioactive glasses doped with cerium: Investigation over enzymatic-like mimetic activities and bioactivity. Ceramics International, 2019, 45, 20910-20920.	2.3	19
47	Structure Model and Toxicity of the Product of Biodissolution of Chrysotile Asbestos in the Lungs. Chemical Research in Toxicology, 2019, 32, 2063-2077.	1.7	17
48	Gold-containing bioactive glasses: a solid-state synthesis to produce alternative biomaterials for bone implantations. Journal of the Royal Society Interface, 2013, 10, 20121040.	1.5	16
49	Recycling of thermally treated cement-asbestos for the production of porcelain stoneware slabs. Journal of Cleaner Production, 2020, 247, 119084.	4.6	16
50	Reactivity of biological and synthetic hydroxyapatite towards Zn(II) ion, solid-liquid investigations. Journal of Materials Science: Materials in Medicine, 2002, 13, 91-98.	1.7	15
51	Effect of Cu2+ ion on the structural stability of synthetic hydroxyapatite. Journal of Materials Chemistry, 1993, 3, 715.	6.7	14
52	Density of multicomponent silica-based potential bioglasses: Quantitative structure-property relationships (QSPR) analysis. Journal of the European Ceramic Society, 2007, 27, 499-504.	2.8	14
53	Composition and morphology effects on catalase mimetic activity of potential bioactive glasses. Ceramics International, 2020, 46, 25854-25864.	2.3	14
54	Role of the Surface Treatment in the Deflocculation of Kaolinite. Journal of the American Ceramic Society, 2006, 89, 1107-1109.	1.9	13

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55	Novel bio-conjugate materials: soybean peroxidase immobilized on bioactive glasses containing Au nanoparticles. Journal of Materials Chemistry, 2011, 21, 10970.	6.7	13
56	SiO2-CaO-P2O5 Bioactive Glasses: A Promising Curcuminoids Delivery System. Materials, 2016, 9, 290.	1.3	13
57	Investigation on the antimicrobial properties of ceriumâ€doped bioactive glasses. Journal of Biomedical Materials Research - Part A, 2022, 110, 504-508.	2.1	13
58	In vitro biodurability of the product of thermal transformation of cementâ€“asbestos. Journal of Hazardous Materials, 2012, 205-206, 63-71.	6.5	9
59	P2O5-Free Cerium Containing Glasses: Bioactivity and Cytocompatibility Evaluation. Materials, 2019, 12, 3267.	1.3	9
60	Cell Proliferation to Evaluate Preliminarily the Presence of Enduring Self-Regenerative Antioxidant Activity in Cerium Doped Bioactive Glasses. Materials, 2020, 13, 2297.	1.3	9
61	Loading with Biomolecules Modulates the Antioxidant Activity of Cerium-Doped Bioactive Glasses. ACS Biomaterials Science and Engineering, 2022, 8, 2890-2898.	2.6	9
62	Conjugation of amino-bioactive glasses with 5-aminofluorescein as probe molecule for the development of pH sensitive stimuli-responsive biomaterials. Journal of Materials Science: Materials in Medicine, 2014, 25, 2243-2253.	1.7	8
63	Colloidal stability classification of TiO2 nanoparticles in artificial and in natural waters by cluster analysis and a global stability index: Influence of standard and natural colloidal particles. Science of the Total Environment, 2022, 829, 154658.	3.9	7
64	Evaluation of the behaviour of fluorine-containing bioactive glasses: reactivity in a simulated body fluid solution assisted by multivariate data analysis. Journal of Materials Science: Materials in Medicine, 2012, 23, 639-648.	1.7	6
65	Preparation and Luminescence Properties of Ba5Si8O21 Long Persistent Phosphors Doped with Rare-Earth Elements. Materials, 2019, 12, 183.	1.3	6
66	Systematic investigation of the parameters that influence the luminescence properties of photoluminescent pigments. Journal of Luminescence, 2016, 175, 141-148.	1.5	5
67	Substituent effect on the coordination ability of the amide group of N-protected amino acids. Inorganica Chimica Acta, 1994, 218, 53-58.	1.2	4
68	Effect of pH and anions on hydroxyapatite-Cu2+ solid-liquid interactions. Journal of Materials Chemistry, 1995, 5, 493.	6.7	3
69	Cadmium(II) N-(p-Tolylsulfonyl)glutaminate. Acta Crystallographica Section C: Crystal Structure Communications, 1995, 51, 2287-2289.	0.4	3
70	Preliminary Experiments of <i>In Situ</i> Atomic Force Microscopy Observation of Hydroxyapatite Formation on Bioactive Glass Surface. Journal of the American Ceramic Society, 2002, 85, 487-489.	1.9	3
71	A Combined Experimental-Computational Strategy for the Design, Synthesis and Characterization of Bioactive Zinc-Silicate Glasses. Key Engineering Materials, 2008, 377, 211-224.	0.4	3
72	Synthesis and Characterisation of Strontium and Magnesium Co-Substituted Biphasic Calcium Phosphates. Key Engineering Materials, 0, 529-530, 88-93.	0.4	3

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73	One-pot sonocatalyzed synthesis of solâ€“gel graphite electrodes containing gold nanoparticles for application in amperometric sensing. Journal of Materials Science, 2019, 54, 9553-9564.	1.7	3
74	Coordination properties of sulfonyl-N-aminoacids: Crystal and molecular structure of the [Zn(II)(N-(p-toluenesulfonyl)-L-glutaminate)2(H2O)2] complex. Journal of Chemical Crystallography, 1995, 25, 713-716.	0.5	1
75	In Vitro Evaluation of Zirconia Nanopowders. Key Engineering Materials, 2003, 254-256, 899-902.	0.4	0
76	Crystal structure of a new homochiral one-dimensional zincophosphate containingL-methionine. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 832-835.	0.2	0
77	Innovative use of thermally treated cement-asbestos in the production of foaming materials: Effect of composition, foaming agent, temperature and reaction time. Construction and Building Materials, 2022, 335, 127517.	3.2	0