Flavia Bollino

List of Publications by Year
in descending order

62 papers	2,388 citations	172207 29 h-index	205818 48 g-index
64 all docs	64 docs citations	64 times ranked	2708 citing authors

#	Article	IF	Citations
1	Influence of chemical treatments on mechanical properties of hemp fiber reinforced composites. Composites Part B: Engineering, 2018, 133, 210-217.	5.9	331
2	Silica/quercetin solâ€“gel hybrids as antioxidant dental implant materials. Science and Technology of Advanced Materials, 2015, 16, 035001.	2.8	146
3	Inorganic polymers from alkali activation of metakaolin: Effect of setting and curing on structure. Journal of Solid State Chemistry, 2013, 200, 341-348.	1.4	98
4	Influence of the polymer amount on bioactivity and biocompatibility of SiO2/PEG hybrid materials synthesized by solâ€“gel technique. Materials Science and Engineering C, 2015, 48, 548-555.	3.8	98
5	Corrosion behavior and mechanical properties of bioactive sol-gel coatings on titanium implants. Materials Science and Engineering C, 2014, 43, 375-382.	3.8	80
6	Characterization and biological properties of TiO2/PCL hybrid layers prepared via solâ€“gel dip coating for surface modification of titanium implants. Journal of Non-Crystalline Solids, 2015, 415, 9-15.	1.5	76
7	Zirconia/Hydroxyapatite Composites Synthesized Via Sol-Gel: Influence of Hydroxyapatite Content and Heating on Their Biological Properties. Materials, 2017, 10, 757.	1.3	72
8	Geopolymer/PEG Hybrid Materials Synthesis and Investigation of the Polymer Influence on Microstructure and Mechanical Behavior. Materials Research, 2015, 18, 698-705.	0.6	71
9	Modification of Ti6Al4V implant surfaces by biocompatible TiO 2 /PCL hybrid layers prepared via sol-gel dip coating: Structural characterization, mechanical and corrosion behavior. Materials Science and Engineering C, 2017, 74, 501-507.	3.8	71
10	Solâ€“gel synthesis of SiO2â€“CaOâ€“P2O5 glasses: Influence of the heat treatment on their bioactivity and biocompatibility. Ceramics International, 2015, 41, 12578-12588.	2.3	64
11	Investigation of the sample preparation and curing treatment effects on mechanical properties and bioactivity of silica rich metakaolin geopolymer. Materials Science and Engineering C, 2014, 36, 20-24.	3.8	62
12	Influence of PCL on mechanical properties and bioactivity of ZrO2-based hybrid coatings synthesized by solâ€“gel dip coating technique. Materials Science and Engineering C, 2014, 39, 344-351.	3.8	62
13	Silicaâ€“polyethylene glycol hybrids synthesized by solâ€“gel: Biocompatibility improvement of titanium implants by coating. Materials Science and Engineering C, 2015, 55, 118-125.	3.8	59
14	Investigation on bioactivity, biocompatibility, thermal behavior and antibacterial properties of calcium silicate glass coatings containing Ag. Journal of Non-Crystalline Solids, 2015, 422, 16-22.	1.5	58
15	Biological response of human mesenchymal stromal cells to titanium grade 4 implants coated with PCL/ZrO2 hybrid materials synthesized by solâ€“gel route: in vitro evaluation. Materials Science and Engineering C, 2014, 45, 395-401.	3.8	55
16	TiO2/PCL hybrid materials synthesized via solâ€“gel technique for biomedical applications. Materials Science and Engineering C, 2015, 47, 135-141.	3.8	55
17	Advanced composites for hardâ€tissue engineering based on PCL/organicâ€“inorganic hybrid fillers: From the design of 2D substrates to 3D rapid prototyped scaffolds. Polymer Composites, 2013, 34, 1413-1417.	2.3	49
18	Biological evaluation of zirconia/PEG hybrid materials synthesized via solâ€“gel technique. Materials Science and Engineering C, 2014, 40, 253-259.	3.8	47

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19	Synthesis of SiO₂ and CaO rich calcium silicate systems via solâ€gel process: Bioactivity, biocompatibility, and drug delivery tests. Journal of Biomedical Materials Research - Part A, 2014, 102, 3087-3092.	2.1	46
20	Preparation, characterization, and biological properties of organicâ€“inorganic nanocomposite coatings on titanium substrates prepared by solâ€“gel. Journal of Biomedical Materials Research - Part A, 2014, 102, 392-399.	2.1	46
21	Structure and magnetic properties of SiO2/PCL novel solâ€“gel organicâ€“inorganic hybrid materials. Journal of Solid State Chemistry, 2013, 203, 92-99.	1.4	44
22	Solâ€“gel synthesis and characterization of SiO 2 /PCL hybrid materials containing quercetin as new materials for antioxidant implants. Materials Science and Engineering C, 2016, 58, 945-952.	3.8	44
23	Geopolymers: An option for the valorization of incinerator bottom ash derived â€œend of wasteâ€• Ceramics International, 2015, 41, 2116-2123.	2.3	42
24	Surface Modifications for Implants Lifetime extension: An Overview of Sol-Gel Coatings. Coatings, 2020, 10, 589.	1.2	38
25	Biocompatibility improvement of titanium implants by coating with hybrid materials synthesized by sol-gel technique. Journal of Biomedical Materials Research - Part A, 2014, 102, n/a-n/a.	2.1	35
26	Coatings of titanium substrates with xCaOÂ·(1 â^' x)SiO 2 solâ€“gel materials: characterization, bioactivity and biocompatibility evaluation. Materials Science and Engineering C, 2016, 58, 846-851.	3.8	32
27	Synthesis of SiO₂ system via solâ€“gel process: Biocompatibility tests with a fibroblast strain and release kinetics. Journal of Biomedical Materials Research - Part A, 2014, 102, 1677-1680.	2.1	31
28	Pure Al2O3Â·2SiO2 synthesized via a sol-gel technique as a raw material to replace metakaolin: Chemical and structural characterization and thermal behavior. Ceramics International, 2016, 42, 16303-16309.	2.3	31
29	Anti-inflammatory entrapment in polycaprolactone/silica hybrid material prepared by sol-gel route, characterization, bioactivity and in vitro release behavior. Journal of Applied Biomaterials and Functional Materials, 2013, 11, 172-179.	0.7	25
30	Synthesis of zirconia/polyethylene glycol hybrid materials by solâ€“gel processing and connections between structure and release kinetic of indomethacin. Drug Delivery, 2014, 21, 595-604.	2.5	24
31	Solâ€“gel hybrid materials for aerospace applications: Chemical characterization and comparative investigation of the magnetic properties. Acta Astronautica, 2015, 117, 153-162.	1.7	24
32	A metabolic profiling approach to an Italian sage leaf extract (SoA541) defines its antioxidant and anti-acetylcholinesterase properties. Journal of Functional Foods, 2017, 29, 1-9.	1.6	24
33	Morphological and thermal characterization of zirconia/hydroxyapatite composites prepared via sol-gel for biomedical applications. Ceramics International, 2019, 45, 2835-2845.	2.3	23
34	Modulation of indomethacin release from ZrO2/PCL hybrid multilayers synthesized via solâ€“gel dip coating. Journal of Drug Delivery Science and Technology, 2015, 26, 10-16.	1.4	22
35	ZrO2/PEG hybrid nanocomposites synthesized via solâ€“gel: Characterization and evaluation of the magnetic properties. Journal of Non-Crystalline Solids, 2015, 413, 1-7.	1.5	22
36	Al₂O₃Â·2SiO₂ powders synthesized via solâ€“gel as pure raw material in geopolymer preparation. Journal of the American Ceramic Society, 2017, 100, 1919-1927.	1.9	22

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37	Thermal behavior and dehydration kinetic study of SiO₂/PEG hybrid gel glasses. Polymer Engineering and Science, 2017, 57, 606-612.	1.5	22
38	Surface modifications of titanium implants by coating with bioactive and biocompatible poly (Îµ-caprolactone)/SiO2 hybrids synthesized via solâ€“gel. Arabian Journal of Chemistry, 2018, 11, 1126-1133.	2.3	22
39	Synthesis, thermal behavior and physicochemical characterization of ZrO2/PEG inorganic/organic hybrid materials via solâ€“gel technique. Journal of Thermal Analysis and Calorimetry, 2017, 130, 535-540.	2.0	21
40	Release Kinetics of Anti-inflammatory Drug, and Characterization and Bioactivity of SiO₂+PCL Hybrid Material Synthesized by Sol-gel Processing. Journal of Applied Biomaterials and Functional Materials, 2014, 12, 218-227.	0.7	17
41	Entrapping quercetin in silica/polyethylene glycol hybrid materials: Chemical characterization and biocompatibility. Materials Science and Engineering C, 2016, 68, 205-212.	3.8	17
42	Preparation of 0.7SiO2Â·0.3CaO/PCL hybrid layers via solâ€“gel dip coating for the surface modification of titanium implants: characterization, bioactivity and biocompatibility evaluation. Journal of Sol-Gel Science and Technology, 2015, 76, 241-250.	1.1	15
43	PEGâ€based organicâ€“inorganic hybrid coatings prepared by the solâ€“gel dipâ€coating process for biomedical applications. Polymer Engineering and Science, 2017, 57, 478-484.	1.5	15
44	Chemical analysis and anti-proliferative activity of Campania Thymus Vulgaris essential oil. Journal of Essential Oil Research, 2017, 29, 461-470.	1.3	14
45	Poly(âˆ’Caprolactone) Reinforced with Sol-Gel Synthesized Organic-Inorganic Hybrid Fillers as Composite Substrates for Tissue Engineering. Journal of Applied Biomaterials and Biomechanics, 2010, 8, 146-152.	0.4	13
46	Response of SAOS-2 cells to simulated microgravity and effect of biocompatible solâ€“gel hybrid coatings. Acta Astronautica, 2016, 122, 237-242.	1.7	10
47	Chemical and Biological Characterization of Geopolymers for Potential Application as Hard Tissue Prostheses. Advances in Science and Technology, 0, , .	0.2	7
48	Mechanical Characterization of Hybrid (Organic-Inorganic) Geopolymers. Key Engineering Materials, 0, 569-570, 119-125.	0.4	7
49	TiO₂/PCL Hybrid Layers Prepared via Sol-Gel Dip Coating for the Surface Modification of Titanium Implants: Characterization and Bioactivity Evaluation. Applied Mechanics and Materials, 0, 760, 353-358.	0.2	6
50	Thermal Behavior and Structural Study of SiO2/Poly(Îµ-caprolactone) Hybrids Synthesized via Sol-Gel Method. Materials, 2018, 11, 275.	1.3	6
51	PCL loaded with sol-gel synthesized organic-inorganic hybrid fillers: From the analysis of 2D substrates to the design of 3D rapid prototyped composite scaffolds for tissue engineering. , 2012, , .		4
52	Organic Inorganic Hybrid Materials Synthesized via Solâ€“Gel for Controlled Drug Delivery. Macromolecular Symposia, 2020, 389, 1900059.	0.4	4
53	Influence of the drying treatment on the performance of Vâ€“Nb mixed oxides catalysts synthesised via solâ€“gel. Journal of Non-Crystalline Solids, 2013, 380, 1-5.	1.5	3
54	Sol-gel synthesis and characterization of SiO2/PEG hybrid materials containing quercetin as implants with antioxidant properties. AIP Conference Proceedings, 2016, , .	0.3	1

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55	Surface Modification of Implants by Sol-Gel Coating Technology: Advantages and Applications. , 2020, , .		1
56	Bioactive Titaniaâ€Based Organicâ€“Inorganic Hybrids Synthesized via Solâ€“Gel. Macromolecular Symposia, 2020, 389, 1900058.	0.4	1
57	Improvement of the titanium implant biological properties by coating with poly (Îµ-caprolactone)-based hybrid nanocomposites synthesized via sol-gel. AIP Conference Proceedings, 2016, , .	0.3	0
58	Sol-gel silica-based nanocomposites containing a high PEG amount: Chemical characterization and study of biological properties. AIP Conference Proceedings, 2016, , .	0.3	0
59	Magnetic properties of sol-gel hybrid materials for aerospace field. AIP Conference Proceedings, 2018, , .	0.3	0
60	Preparation of sol-gel organic-inorganic hybrid coatings for controlled drug release. AIP Conference Proceedings, 2018, , .	0.3	0
61	Preparation, microstructure and mechanical properties of geopolymer composites. AIP Conference Proceedings, 2018, , .	0.3	0
62	New Strategies for the Development of Multifunctional Suture Threads. Macromolecular Symposia, 2021, 396, 2000315.	0.4	0