

Adriana Bigi

List of Publications by Year in descending order

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195
papers

11,727
citations

24978

57
h-index

31759

101
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196
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196
docs citations

196
times ranked

11032
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical and thermal properties of gelatin films at different degrees of glutaraldehyde crosslinking. <i>Biomaterials</i> , 2001, 22, 763-768.	5.7	722
2	Ionic substitutions in calcium phosphates synthesized at low temperature. <i>Acta Biomaterialia</i> , 2010, 6, 1882-1894.	4.1	705
3	Stabilization of gelatin films by crosslinking with genipin. <i>Biomaterials</i> , 2002, 23, 4827-4832.	5.7	520
4	Relationship between triple-helix content and mechanical properties of gelatin films. <i>Biomaterials</i> , 2004, 25, 5675-5680.	5.7	409
5	Strontium-substituted hydroxyapatite coatings synthesized by pulsed-laser deposition: In vitro osteoblast and osteoclast response. <i>Acta Biomaterialia</i> , 2008, 4, 1885-1893.	4.1	313
6	Strontium-substituted hydroxyapatite nanocrystals. <i>Inorganica Chimica Acta</i> , 2007, 360, 1009-1016.	1.2	308
7	Magnesium influence on hydroxyapatite crystallization. <i>Journal of Inorganic Biochemistry</i> , 1993, 49, 69-78.	1.5	263
8	Chemical and structural characterization of the mineral phase from cortical and trabecular bone. <i>Journal of Inorganic Biochemistry</i> , 1997, 68, 45-51.	1.5	245
9	The role of magnesium on the structure of biological apatites. <i>Calcified Tissue International</i> , 1992, 50, 439-444.	1.5	222
10	Electrospun gelatin nanofibers: Optimization of genipin cross-linking to preserve fiber morphology after exposure to water. <i>Acta Biomaterialia</i> , 2011, 7, 1702-1709.	4.1	217
11	Nanocrystalline hydroxyapatite coatings on titanium: a new fast biomimetic method. <i>Biomaterials</i> , 2005, 26, 4085-4089.	5.7	192
12	Human osteoblast response to pulsed laser deposited calcium phosphate coatings. <i>Biomaterials</i> , 2005, 26, 2381-2389.	5.7	180
13	Interaction of Sr ²⁺ -doped hydroxyapatite nanocrystals with osteoclast and osteoblast-like cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 89A, 594-600.	2.1	179
14	Nanocrystals of magnesium and fluoride substituted hydroxyapatite. <i>Journal of Inorganic Biochemistry</i> , 1998, 72, 29-35.	1.5	170
15	Inhibiting effect of zinc on hydroxylapatite crystallization. <i>Journal of Inorganic Biochemistry</i> , 1995, 58, 49-58.	1.5	167
16	Effect of Mg ²⁺ , Sr ²⁺ , and Mn ²⁺ on the chemico-physical and in vitro biological properties of calcium phosphate biomimetic coatings. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 1666-1674.	1.5	159
17	Effect of added gelatin on the properties of calcium phosphate cement. <i>Biomaterials</i> , 2004, 25, 2893-2899.	5.7	146
18	Alendronate ²⁻ -hydroxyapatite nanocomposites and their interaction with osteoclasts and osteoblast-like cells. <i>Biomaterials</i> , 2008, 29, 790-796.	5.7	139

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19	Chemico-physical characterization of gelatin films modified with oxidized alginate. <i>Acta Biomaterialia</i> , 2010, 6, 383-388.	4.1	136
20	Morphosynthesis of Octacalcium Phosphate Hollow Microspheres by Polyelectrolyte-Mediated Crystallization This work was supported by MURST, the University of Bologna (Funds for Selected) Tj ETQq0 0 0 rg872/Overlook1.0 Tf 50	0.7	10
21	Nanocomposites of hydroxyapatite with aspartic acid and glutamic acid and their interaction with osteoblast-like cells. <i>Biomaterials</i> , 2006, 27, 4428-4433.	5.7	124
22	Isomorphous substitutions in β -tricalcium phosphate: The different effects of zinc and strontium. <i>Journal of Inorganic Biochemistry</i> , 1997, 66, 259-265.	1.5	122
23	Drawn gelatin films with improved mechanical properties. <i>Biomaterials</i> , 1998, 19, 2335-2340.	5.7	109
24	Effects of freezing on the biomechanical and structural properties of human posterior tibial tendons. <i>International Orthopaedics</i> , 2008, 32, 145-151.	0.9	108
25	The effect of hydroxyapatite nanocrystals on microvascular endothelial cell viability and functions. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 656-663.	2.1	106
26	Hydroxyapatite gels and nanocrystals prepared through a sol-gel process. <i>Journal of Solid State Chemistry</i> , 2004, 177, 3092-3098.	1.4	104
27	Hydroxyapatite-gelatin films: a structural and mechanical characterization. <i>Biomaterials</i> , 1998, 19, 739-744.	5.7	101
28	Bonelike apatite growth on hydroxyapatite-gelatin sponges from simulated body fluid. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 59, 709-715.	3.0	100
29	Rietveld structure refinements of calcium hydroxylapatite containing magnesium. <i>Acta Crystallographica Section B: Structural Science</i> , 1996, 52, 87-92.	1.8	99
30	Biomimetic Growth of Hydroxyapatite on Gelatin Films Doped with Sodium Polyacrylate. <i>Biomacromolecules</i> , 2000, 1, 752-756.	2.6	99
31	Twisted Plywood Pattern of Collagen Fibrils in Teleost Scales: An X-ray Diffraction Investigation. <i>Journal of Structural Biology</i> , 2001, 136, 137-143.	1.3	96
32	Composite Nanocrystals Provide New Insight on Alendronate Interaction with Hydroxyapatite Structure. <i>Advanced Materials</i> , 2007, 19, 2499-2502.	11.1	95
33	Hydroxyapatite/polyacrylic acid nanocrystals. <i>Journal of Materials Chemistry</i> , 1999, 9, 779-782.	6.7	83
34	The response of bone to nanocrystalline hydroxyapatite-coated Ti13Nb11Zr alloy in an animal model. <i>Biomaterials</i> , 2008, 29, 1730-1736.	5.7	83
35	Setting properties and <i>in vitro</i> bioactivity of strontium-enriched gelatin-calcium phosphate bone cements. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 84A, 965-972.	2.1	82
36	Osteopenic bone cell response to strontium-substituted hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 2079-2088.	1.7	82

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37	Structural differences between "dark" and "bright" isolated human osteonic lamellae. <i>Journal of Structural Biology</i> , 2003, 141, 22-33.	1.3	81
38	Alendronate and Pamidronate calcium phosphate bone cements: Setting properties and in vitro response of osteoblast and osteoclast cells. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 101-106.	1.5	81
39	Structural reinforcement and failure analysis in composite nanofibers of graphene oxide and gelatin. <i>Carbon</i> , 2014, 78, 566-577.	5.4	81
40	Porous composite scaffolds based on gelatin and partially hydrolyzed β -tricalcium phosphate. <i>Acta Biomaterialia</i> , 2009, 5, 636-643.	4.1	73
41	Magnesium and strontium doped octacalcium phosphate thin films by matrix assisted pulsed laser evaporation. <i>Journal of Inorganic Biochemistry</i> , 2012, 107, 65-72.	1.5	73
42	Co-electrospun gelatin-poly(L-lactic acid) scaffolds: Modulation of mechanical properties and chondrocyte response as a function of composition. <i>Materials Science and Engineering C</i> , 2014, 36, 130-138.	3.8	71
43	Biocompatible nanocrystalline octacalcium phosphate thin films obtained by pulsed laser deposition. <i>Biomaterials</i> , 2004, 25, 2539-2545.	5.7	70
44	Antioxidant and bone repair properties of quercetin-functionalized hydroxyapatite: An in vitro osteoblast-osteoclast-endothelial cell co-culture study. <i>Acta Biomaterialia</i> , 2016, 32, 298-308.	4.1	70
45	Biofunctional alendronate-Hydroxyapatite thin films deposited by Matrix Assisted Pulsed Laser Evaporation. <i>Biomaterials</i> , 2009, 30, 6168-6177.	5.7	68
46	Differential scanning calorimetry and X-ray diffraction study of tendon collagen thermal denaturation. <i>International Journal of Biological Macromolecules</i> , 1987, 9, 363-367.	3.6	64
47	Microstructural investigation of hydroxyapatite-polyelectrolyte composites. <i>Journal of Materials Chemistry</i> , 2004, 14, 274-279.	6.7	63
48	Comparative performance of collagen nanofibers electrospun from different solvents and stabilized by different crosslinkers. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 2313-2321.	1.7	63
49	Structural modifications of hydroxyapatite induced by lead substitution for calcium. <i>Journal of the Chemical Society Dalton Transactions</i> , 1991, , 2883.	1.1	60
50	Structural and Mechanical Properties of Crosslinked Drawn Gelatin Films. <i>Magyar Árvad Kémlemezés</i> , 2000, 61, 451-459.	1.4	60
51	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2006, 51, 665-670.	1.0	60
52	Structural analysis of turkey tendon collagen upon removal of the inorganic phase. <i>International Journal of Biological Macromolecules</i> , 1991, 13, 110-114.	3.6	59
53	Structure refinements of lead-substituted calcium hydroxyapatite by X-ray powder fitting. <i>Acta Crystallographica Section B: Structural Science</i> , 1989, 45, 247-251.	1.8	58
54	Nanostructured HA crystals up-regulate FGF-2 expression and activity in microvascular endothelium promoting angiogenesis. <i>Bone</i> , 2007, 41, 523-534.	1.4	58

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55	Collapsed Octacalcium Phosphate Stabilized by Ionic Substitutions. <i>Crystal Growth and Design</i> , 2010, 10, 3612-3617.	1.4	58
56	Combined effect of strontium and zoledronate on hydroxyapatite structure and bone cell responses. <i>Biomaterials</i> , 2014, 35, 5619-5626.	5.7	58
57	Differences in the Fibril Structure of Corneal and Tendon Collagen. An Electron Microscopy and X-Ray Diffraction Investigation. <i>Connective Tissue Research</i> , 1986, 15, 269-281.	1.1	57
58	Setting Mechanism of a Biomimetic Bone Cement. <i>Chemistry of Materials</i> , 2004, 16, 3740-3745.	3.2	57
59	Functionalization of biomimetic calcium phosphate bone cements with alendronate. <i>Journal of Inorganic Biochemistry</i> , 2010, 104, 1099-1106.	1.5	56
60	The effect of zoledronate-hydroxyapatite nanocomposites on osteoclasts and osteoblast-like cells in vitro. <i>Biomaterials</i> , 2012, 33, 722-730.	5.7	56
61	Calcium Phosphates as Delivery Systems for Bisphosphonates. <i>Journal of Functional Biomaterials</i> , 2018, 9, 6.	1.8	56
62	Calcified turkey leg tendon as structural model for bone mineralization. <i>International Journal of Biological Macromolecules</i> , 1988, 10, 282-286.	3.6	54
63	In vitro culture of mesenchymal cells onto nanocrystalline hydroxyapatite-coated Ti13Nb13Zr alloy. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 82A, 213-221.	2.1	54
64	Role of pH on stability and mechanical properties of gelatin films. <i>Journal of Bioactive and Compatible Polymers</i> , 2012, 27, 67-77.	0.8	54
65	Effect of sterilization and crosslinking on gelatin films. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 69.	1.7	51
66	Strontium and zoledronate hydroxyapatites graded composite coatings for bone prostheses. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 1-7.	5.0	51
67	Excess Enthalpies, Heat Capacities, Densities, Viscosities and Refractive Indices of Dimethyl Sulfoxide + Three Aryl Alcohols at 308.15 K and Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2005, 50, 1932-1937.	1.0	50
68	Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Poly(ethylene glycols) + 2-Methyltetrahydrofuran at (293.15, 303.15, and 313.15) K. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 2020-2025.	1.0	49
69	Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Tetrahydropyran and + 2-Methyltetrahydrofuran at (293.15, 303.15, and 313.15) K. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 639-644.	1.0	49
70	Synthesis and hydrolysis of octacalcium phosphate: effect of sodium polyacrylate. <i>Journal of Inorganic Biochemistry</i> , 1999, 75, 145-151.	1.5	48
71	Thermal behavior of bone and synthetic hydroxyapatites submitted to magnesium interaction in aqueous medium. <i>Journal of Inorganic Biochemistry</i> , 1984, 20, 1-12.	1.5	46
72	A low-angle X-ray diffraction analysis of osteonic inorganic phase using synchrotron radiation. <i>Calcified Tissue International</i> , 1985, 37, 659-664.	1.5	46

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73	Î±-Tricalcium phosphate hydrolysis to octacalcium phosphate: effect of sodium polyacrylate. <i>Biomaterials</i> , 2002, 23, 1849-1854.	5.7	46
74	Strontium and Zinc Substitution in Î²-Tricalcium Phosphate: An X-ray Diffraction, Solid State NMR and ATR-FTIR Study. <i>Journal of Functional Biomaterials</i> , 2019, 10, 20.	1.8	45
75	Structural and chemical characterization of inorganic deposits in calcified human mitral valve. <i>Journal of Inorganic Biochemistry</i> , 1988, 34, 75-82.	1.5	44
76	Biocompatible Mn ²⁺ -doped carbonated hydroxyapatite thin films grown by pulsed laser deposition. <i>Journal of Biomedical Materials Research - Part A</i> , 2004, 71A, 353-358.	2.1	44
77	Hydroxyapatite Nanocrystals Modified with Acidic Amino Acids. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 4821-4826.	1.0	44
78	3D interconnected porous biomimetic scaffolds: <i>in vitro</i> cell response. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 3560-3570.	2.1	44
79	Morphological and Structural Investigation of Octacalcium Phosphate Hydrolysis in the Presence of Polyacrylic Acids: Effect of Relative Molecular Weights. <i>Crystal Growth and Design</i> , 2001, 1, 239-244.	1.4	43
80	Atmospheric Pressure Non-Equilibrium Plasma as a Green Tool to Crosslink Gelatin Nanofibers. <i>Scientific Reports</i> , 2016, 6, 38542.	1.6	43
81	Interaction of acidic poly-amino acids with octacalcium phosphate. <i>Journal of Inorganic Biochemistry</i> , 2003, 95, 291-296.	1.5	42
82	Morphological and Structural Modifications of Octacalcium Phosphate Induced by Poly-L-Aspartate. <i>Crystal Growth and Design</i> , 2004, 4, 141-146.	1.4	37
83	Calcium phosphate thin films synthesized by pulsed laser deposition: Physico-chemical characterization and <i>in vitro</i> cell response. <i>Applied Surface Science</i> , 2005, 248, 344-348.	3.1	37
84	Normal and osteopenic bone-derived osteoblast response to a biomimetic gelatin-calcium phosphate bone cement. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 78A, 739-745.	2.1	37
85	Functional properties of chitosan films modified by snail mucus extract. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 126-135.	3.6	37
86	Multi-layered Scaffolds for Osteochondral Tissue Engineering: <i>In Vitro</i> Response of Co-cultured Human Mesenchymal Stem Cells. <i>Macromolecular Bioscience</i> , 2015, 15, 1535-1545.	2.1	36
87	Strontium-Substituted Hydroxyapatite-Gelatin Biomimetic Scaffolds Modulate Bone Cell Response. <i>Macromolecular Bioscience</i> , 2018, 18, e1800096.	2.1	36
88	Functionalized Biomimetic Calcium Phosphates for Bone Tissue Repair. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2017, 15, e313-e325.	0.7	35
89	Synthesis and Hydrolysis of Brushite (DCPD): The Role of Ionic Substitution. <i>Crystal Growth and Design</i> , 2021, 21, 1689-1697.	1.4	35
90	Effect of sodium polyacrylate on the hydrolysis of octacalcium phosphate. <i>Journal of Inorganic Biochemistry</i> , 2000, 78, 227-233.	1.5	34

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91	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + 1-Propanol at (288.15, 298.15, and 308.15) K and at Normal Pressure. <i>Journal of Chemical & Engineering Data</i> , 2006, 51, 1711-1716.	1.0	34
92	Thermal stability of cadmium-calcium hydroxyapatite solid solutions. <i>Journal of the Chemical Society Dalton Transactions</i> , 1986, , 241-244.	1.1	33
93	Thermal conversion of octacalcium phosphate into hydroxyapatite. <i>Journal of Inorganic Biochemistry</i> , 1990, 40, 293-299.	1.5	33
94	Antiresorption implant coatings based on calcium alendronate and octacalcium phosphate deposited by matrix assisted pulsed laser evaporation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 449-456.	2.5	33
95	Antiresorptive and anti-angiogenetic octacalcium phosphate functionalized with bisphosphonates: An in vitro tri-culture study. <i>Acta Biomaterialia</i> , 2017, 54, 419-428.	4.1	33
96	Gradient coatings of strontium hydroxyapatite/zinc β -tricalcium phosphate as a tool to modulate osteoblast/osteoclast response. <i>Journal of Inorganic Biochemistry</i> , 2018, 183, 1-8.	1.5	32
97	Effect of strontium and gelatin on the reactivity of β -tricalcium phosphate. <i>Acta Biomaterialia</i> , 2010, 6, 936-942.	4.1	31
98	Non-equilibrium atmospheric pressure plasma as innovative method to crosslink and enhance mucoadhesion of econazole-loaded gelatin films for buccal drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 163, 73-82.	2.5	31
99	In vitro calcified tendon collagen: an atomic force and scanning electron microscopy investigation. <i>Biomaterials</i> , 1997, 18, 657-665.	5.7	30
100	Biomimetic gelatin-octacalcium phosphate core-shell microspheres. <i>Journal of Colloid and Interface Science</i> , 2011, 362, 594-599.	5.0	29
101	Effect of foreign ions on the conversion of brushite and octacalcium phosphate into hydroxyapatite. <i>Journal of Inorganic Biochemistry</i> , 1988, 32, 251-257.	1.5	28
102	Highly Porous Gelatin Reinforced 3D Scaffolds for Articular Cartilage Regeneration. <i>Macromolecular Bioscience</i> , 2015, 15, 941-952.	2.1	28
103	Modulation of Alendronate release from a calcium phosphate bone cement: An in vitro osteoblast-osteoclast co-culture study. <i>International Journal of Pharmaceutics</i> , 2019, 554, 245-255.	2.6	28
104	Quercetin loaded gelatin films with modulated release and tailored anti-oxidant, mechanical and swelling properties. <i>Food Hydrocolloids</i> , 2020, 109, 106089.	5.6	28
105	Collagen structural organization in uncalcified and calcified human anterior longitudinal ligament. <i>Connective Tissue Research</i> , 1991, 25, 171-179.	1.1	27
106	Rietveld structure refinement of synthetic magnesium substituted β -tricalcium phosphate. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 1996, 211, 13-16.	0.4	27
107	Structural Refinements of Strontium Substituted Hydroxylapatites. <i>Materials Science Forum</i> , 1998, 278-281, 814-819.	0.3	27
108	Chitosan and Gelatin as Engineered Dressing for Wound Repair. <i>Journal of Bioactive and Compatible Polymers</i> , 2001, 16, 145-157.	0.8	27

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109	Porous phosphate-gelatine composite as bone graft with drug delivery function. <i>Journal of Materials Science: Materials in Medicine</i> , 2003, 14, 623-627.	1.7	27
110	Crystalline Calcium Alendronate Obtained by Octacalcium Phosphate Digestion: A New Chance for Local Treatment of Bone Loss Diseases?. <i>Advanced Materials</i> , 2013, 25, 4605-4611.	11.1	27
111	Structural investigations of lead ²⁺ -strontium fluoroapatites. <i>Journal of Solid State Chemistry</i> , 2006, 179, 3065-3072.	1.4	26
112	The effect of alendronate doped calcium phosphates on bone cells activity. <i>Bone</i> , 2012, 51, 944-952.	1.4	26
113	Structural modifications of air-dried tendon collagen on heating. <i>International Journal of Biological Macromolecules</i> , 1987, 9, 176-180.	3.6	25
114	X-ray Powder Diffraction and Solid-State NMR Investigations in Cadmium ²⁺ -Lead Hydroxyapatites. <i>European Journal of Inorganic Chemistry</i> , 2001, 2001, 1261-1267.	1.0	25
115	Enthalpies of Mixing, Densities, and Refractive Indices for Binary Mixtures of (Anisole or Phenetole) + Three Aryl Alcohols at 308.15 K and at Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2005, 50, 1404-1408.	1.0	25
116	Thermophysical properties of dimethyl sulfoxide+cyclic and linear ethers at 308.15K. <i>Thermochimica Acta</i> , 2006, 447, 154-160.	1.2	25
117	Synthesis and characterization of Sr(10 ^x)Cd _x (PO ₄) ₆ Y ₂ (Y=OH and F): A comparison of apatites containing two divalent cations. <i>Materials Research Bulletin</i> , 2009, 44, 522-530.	2.7	25
118	Barium calcium hydroxyapatite solid solutions. <i>Journal of the Chemical Society Dalton Transactions</i> , 1984, , 1091.	1.1	24
119	X-Ray Diffraction on Cyclically Loaded Osteons. <i>Calcified Tissue International</i> , 1998, 62, 266-273.	1.5	24
120	Continuous multilayered composite hydrogel as osteochondral substitute. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 2521-2530.	2.1	24
121	Monocyclic β -lactams loaded on hydroxyapatite: new biomaterials with enhanced antibacterial activity against resistant strains. <i>Scientific Reports</i> , 2017, 7, 2712.	1.6	24
122	Quercetin and alendronate multifunctionalized materials as tools to hinder oxidative stress damage. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 3293-3303.	2.1	24
123	X-ray diffraction analysis of transversal osteonic lamellae. <i>Calcified Tissue International</i> , 1983, 35, 279-283.	1.5	23
124	Morphosynthesis of Octacalcium Phosphate Hollow Microspheres by Polyelectrolyte-Mediated Crystallization This work was supported by MURST, the University of Bologna (Funds for Selected) Tj ETQq0 0 0 rgBT6/Overlook 10 Tf 50		
125	Physicochemical Properties and Structural Refinement of Strontium-Lead Hydroxyapatites. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 1864-1870.	1.0	23
126	Chondrogenic differentiation of human adipose mesenchymal stem cells: Influence of a biomimetic gelatin genipin crosslinked porous scaffold. <i>Microscopy Research and Technique</i> , 2014, 77, 928-934.	1.2	23

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127	Light microscopy, electron microscopy, and X-ray diffraction analysis of glycerinated collagen fibers. <i>Journal of Ultrastructure Research</i> , 1983, 85, 228-237.	1.4	22
128	Effect of strontium substituted Sr^{2+} -TCP associated to mesenchymal stem cells from bone marrow and adipose tissue on spinal fusion in healthy and ovariectomized rat. <i>Journal of Cellular Physiology</i> , 2019, 234, 20046-20056.	2.0	22
129	Advanced Biomimetic Implants Based on Nanostructured Coatings Synthesized by Pulsed Laser Technologies. <i>Springer Series in Materials Science</i> , 2010, , 235-260.	0.4	22
130	Hydroxyapatite functionalization to trigger adsorption and release of risedronate. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 493-499.	2.5	21
131	X-ray diffraction study of in vitro calcification of tendon collagen. <i>Biomaterials</i> , 1996, 17, 1195-1201.	5.7	20
132	Biomimetic synthesis of carbonated hydroxyapatite thin films. <i>Thin Solid Films</i> , 2006, 497, 53-57.	0.8	20
133	Excess molar enthalpies and heat capacities of dimethyl sulfoxide+seven normal alkanols at 303.15K and atmospheric pressure. <i>Thermochimica Acta</i> , 2007, 452, 124-127.	1.2	20
134	Densities, Viscosities, Refractive Indices, and Heat Capacities of Poly(ethylene) Terephthalate (PET) /Overlock 10 Tf 50 467 Td (glycol- CO_2) Pressure. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 205-210.	1.0	20
135	Role of Aspartic and Polyaspartic Acid on the Synthesis and Hydrolysis of Brushite.. <i>Journal of Functional Biomaterials</i> , 2019, 10, 11.	1.8	20
136	Cationic-anionic polyelectrolyte interaction as a tool to graft silver nanoparticles on hydroxyapatite crystals and prevent cytotoxicity. <i>RSC Advances</i> , 2014, 4, 645-652.	1.7	19
137	Biomimetic fabrication of antibacterial calcium phosphates mediated by polydopamine. <i>Journal of Inorganic Biochemistry</i> , 2018, 178, 43-53.	1.5	19
138	Fluoride and carbonate incorporation into hydroxyapatite under condition of cyclic pH variation. <i>Journal of Inorganic Biochemistry</i> , 1986, 27, 31-39.	1.5	18
139	Antiresorptive properties of strontium substituted and alendronate functionalized hydroxyapatite nanocrystals in an ovariectomized rat spinal arthrodesis model. <i>Materials Science and Engineering C</i> , 2019, 95, 355-362.	3.8	18
140	Effect of fluoride, chloride and carbonate ions introduced by cyclic pH fluctuation on the physico-chemical properties of apatite-based ceramics. <i>Journal of Materials Science</i> , 1990, 25, 3203-3207.	1.7	17
141	Structural and morphological modifications of hydroxyapatite-polyaspartate composite crystals induced by heat treatment. <i>Crystal Research and Technology</i> , 2005, 40, 1094-1098.	0.6	17
142	Time Course of Zoledronate Interaction with Hydroxyapatite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15812-15818.	1.5	17
143	Alendronate Functionalized Mesoporous Bioactive Glass Nanospheres. <i>Materials</i> , 2016, 9, 135.	1.3	17
144	Spray-congealed solid lipid microparticles as a new tool for the controlled release of bisphosphonates from a calcium phosphate bone cement. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 122, 6-16.	2.0	17

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145	Relationship between Solid State NMR Parameters and X-ray Structural Data in Tricadmium Phosphates. <i>Inorganic Chemistry</i> , 1996, 35, 149-154.	1.9	16
146	Excess molar enthalpies of binary mixtures containing ethylene glycols or poly(ethylene glycol) block copolymers. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 1302-1308.	1.2	16
147	(9R)-9-Hydroxystearate-Functionalized Hydroxyapatite as Antiproliferative and Cytotoxic Agent toward Osteosarcoma Cells. <i>Langmuir</i> , 2016, 32, 188-194.	1.6	16
148	A new multifunctionalized material against multi-drug resistant bacteria and abnormal osteoclast activity. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 127, 120-129.	2.0	16
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