Joanna Kolmas

List of Publications by Year in descending order

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44 papers	1,453 citations	361413 20 h-index	330143 37 g-index
46 all docs	46 docs citations	46 times ranked	1873 citing authors

#	Article	IF	Citations
1	Substituted Hydroxyapatites with Antibacterial Properties. BioMed Research International, 2014, 2014, 1-15.	1.9	183
2	Hydroxyapatite and Fluorapatite in Conservative Dentistry and Oral Implantologyâ€"A Review. Materials, 2019, 12, 2683.	2.9	141
3	Synthetic hydroxyapatite in pharmaceutical applications. Ceramics International, 2016, 42, 2472-2487.	4.8	117
4	The Influence of Strontium on Bone Tissue Metabolism and Its Application in Osteoporosis Treatment. International Journal of Molecular Sciences, 2021, 22, 6564.	4.1	109
5	Incorporation of carbonate and magnesium ions into synthetic hydroxyapatite: The effect on physicochemical properties. Journal of Molecular Structure, 2011, 987, 40-50.	3.6	88
6	Nanocrystalline hydroxyapatite doped with selenium oxyanions: A new material for potential biomedical applications. Materials Science and Engineering C, 2014, 39, 134-142.	7.3	58
7	Ionic Substitutions in Non-Apatitic Calcium Phosphates. International Journal of Molecular Sciences, 2017, 18, 2542.	4.1	57
8	Biologically Inspired Collagen/Apatite Composite Biomaterials for Potential Use in Bone Tissue Regenerationâ€"A Review. Materials, 2020, 13, 1748.	2.9	56
9	Hydroxyapatites enriched in silicon â€“ Bioceramic materials for biomedical and pharmaceutical applications. Progress in Natural Science: Materials International, 2017, 27, 401-409.	4.4	54
10	Concentration of hydroxyl groups in dental apatites: a solid-state 1H MAS NMR study using inverse 31P â†'1H cross-polarization. Chemical Communications, 2007, , 4390.	4.1	51
11	Nanocrystalline hydroxyapatite enriched in selenite and manganese ions: physicochemical and antibacterial properties. Nanoscale Research Letters, 2015, 10, 989.	5.7	38
12	Alpha-tricalcium phosphate synthesized by two different routes: Structural and spectroscopic characterization. Ceramics International, 2015, 41, 5727-5733.	4.8	37
13	Biological Response to Macroporous Chitosan-Agarose Bone Scaffolds Comprising Mg- and Zn-Doped Nano-Hydroxyapatite. International Journal of Molecular Sciences, 2019, 20, 3835.	4.1	37
14	Estimation of the specific surface area of apatites in human mineralized tissues using 31P MAS NMR. Solid State Nuclear Magnetic Resonance, 2007, 32, 53-58.	2.3	35
15	Effect of carbonate substitution on physicochemical and biological properties of silver containing hydroxyapatites. Materials Science and Engineering C, 2017, 74, 124-130.	7.3	29
16	Near-Infrared (NIR) Spectroscopy of Synthetic Hydroxyapatites and Human Dental Tissues. Applied Spectroscopy, 2015, 69, 902-912.	2.2	24
17	Selenium-Doped Hydroxyapatite Nanocrystalsâ€"Synthesis, Physicochemical Properties and Biological Significance. Crystals, 2018, 8, 188.	2.2	24
18	Substitution of strontium and boron into hydroxyapatite crystals: Effect on physicochemical properties and biocompatibility with human Wharton-Jelly stem cells. Materials Science and Engineering C, 2017, 79, 638-646.	7.3	23

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19	A Solid-State NMR Study of Selenium Substitution into Nanocrystalline Hydroxyapatite. International Journal of Molecular Sciences, 2015, 16, 11452-11464.	4.1	21
20	Fabrication and physicochemical characterization of porous composite microgranules with selenium oxyanions and risedronate sodium for potential applications in bone tumors. International Journal of Nanomedicine, 2017, Volume 12, 5633-5642.	6.7	21
21	Modifications of Hydroxyapatite by Gallium and Silver Ionsâ€"Physicochemical Characterization, Cytotoxicity and Antibacterial Evaluation. International Journal of Molecular Sciences, 2020, 21, 5006.	4.1	20
22	Inverse 31Pâ†'1H NMR cross-polarization in hydrated nanocrystalline calcium hydroxyapatite. Chemical Physics Letters, 2012, 554, 128-132.	2.6	18
23	Novel hybrid material based on Mg2+ and SiO44- co-substituted nano-hydroxyapatite, alginate and chondroitin sulphate for potential use in biomaterials engineering. Ceramics International, 2018, 44, 18551-18559.	4.8	18
24	Mid-infrared reflectance microspectroscopy of human molars: Chemical comparison of the dentinâ€"enamel junction with the adjacent tissues. Journal of Molecular Structure, 2010, 966, 113-121.	3.6	17
25	Solid-state NMR and IR characterization of commercial xenogeneic biomaterials used as bone substitutes. Journal of Pharmaceutical and Biomedical Analysis, 2012, 61, 136-141.	2.8	17
26	Chinese tombs oriented by a compass: Evidence from paleomagnetic changes versus the age of tombs. Studia Geophysica Et Geodaetica, 2011, 55, 159-174.	0.5	15
27	Selenium-Substituted Hydroxyapatite/Biodegradable Polymer/Pamidronate Combined Scaffold for the Therapy of Bone Tumour. International Journal of Molecular Sciences, 2015, 16, 22205-22222.	4.1	13
28	Solidâ€€State NMR Study of Mn²⁺ for Ca²⁺ Substitution in Thermally Processed Hydroxyapatites. Journal of the American Ceramic Society, 2015, 98, 1265-1274.	3.8	12
29	Zn2+ and SeO32â^' co-substituted hydroxyapatite: Physicochemical properties and biological usefulness. Ceramics International, 2019, 45, 22707-22715.	4.8	11
30	Mg,Siâ€"Co-Substituted Hydroxyapatite/Alginate Composite Beads Loaded with Raloxifene for Potential Use in Bone Tissue Regeneration. International Journal of Molecular Sciences, 2021, 22, 2933.	4.1	11
31	Synthesis, Characterization and in Vitro Evaluation of New Composite Bisphosphonate Delivery Systems. International Journal of Molecular Sciences, 2014, 15, 16831-16847.	4.1	10
32	Effects of Synthesis Conditions on the Formation of Si-Substituted Alpha Tricalcium Phosphates. International Journal of Molecular Sciences, 2020, 21, 9164.	4.1	10
33	Noncytotoxic zinc-doped nanohydroxyapatite-based bone scaffolds with strong bactericidal, bacteriostatic, and antibiofilm activity. , 2022, 139, 213011.		10
34	Synthesis and physicochemical characterization of Zn-doped brushite. Ceramics International, 2021, 47, 7798-7804.	4.8	9
35	Antibacterial and Cytotoxicity Evaluation of New Hydroxyapatite-Based Granules Containing Silver or Gallium Ions with Potential Use as Bone Substitutes. International Journal of Molecular Sciences, 2022, 23, 7102.	4.1	9
36	Dual Doping of Silicon and Manganese in Hydroxyapatites: Physicochemical Properties and Preliminary Biological Studies. Materials, 2019, 12, 2566.	2.9	8

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37	Pamidronate-Conjugated Biodegradable Branched Copolyester Carriers: Synthesis and Characterization. Molecules, 2017, 22, 1063.	3.8	7
38	Selenium-Enriched Brushite: A Novel Biomaterial for Potential Use in Bone Tissue Engineering. International Journal of Molecular Sciences, 2018, 19, 4042.	4.1	7
39	Hydroxyapatite-Based Materials for Potential Use in Bone Tissue Infections. , 0, , .		7
40	Kinetics of solid-state NMR cross-polarization from protons to carbon-13 in surgical sutures. Solid State Nuclear Magnetic Resonance, 2009, 35, 230-234.	2.3	6
41	The influence of substituted hydroxyapatites heat treatment on citrate sorption behavior â€“ infrared spectroscopy experiments and adsorption studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 558, 23-32.	4.7	6
42	Porous Composite Granules with Potential Function of Bone Substitute and Simvastatin Releasing System: A Preliminary Study. Materials, 2021, 14, 5068.	2.9	4
43	Polymeric bisphosphonate derivative of ciprofloxacin â€“ synthesis, structural analysis and antibacterial activity of the prospective conjugate. International Journal of Polymeric Materials and Polymeric Biomaterials, 2020, 69, 691-702.	3.4	3
44	Benign Odontogenic Tumors versus Histochemically Related Tissues: Preliminary Results from Mid-Infrared and Solid-State Nuclear Magnetic Resonance Spectroscopy. Applied Spectroscopy, 2014, 68, 663-671.	2.2	1