Andrea Ruffini

List of Publications by Year
in descending order

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36 papers	684 citations	567281 15 h-index	552781 26 g-index
37 all docs	37 docs citations	37 times ranked	827 citing authors

#	Article	IF	Citations
1	From wood to bone: multi-step process to convert wood hierarchical structures into biomimetic hydroxyapatite scaffolds for bone tissue engineering. Journal of Materials Chemistry, 2009, 19, 4973.	6.7	140
2	Biomimetic magnesiumâ€“carbonate-apatite nanocrystals endowed with strontium ions as anti-osteoporotic trigger. Materials Science and Engineering C, 2014, 35, 212-219.	7.3	64
3	Biomimesis and biomorphic transformations: New concepts applied to bone regeneration. Journal of Biotechnology, 2011, 156, 347-355.	3.8	48
4	Porous NiTi shape memory alloys produced by SHS: microstructure and biocompatibility in comparison with Ti2Ni and TiNi3. Journal of Materials Science: Materials in Medicine, 2014, 25, 2277-2285.	3.6	41
5	Alkali-bonded SiC based foams. Journal of the European Ceramic Society, 2012, 32, 1907-1913.	5.7	39
6	SiC-based refractory paints prepared with alkali aluminosilicate binders. Journal of the European Ceramic Society, 2011, 31, 2155-2165.	5.7	38
7	The influence of process parameters on in situ inorganic foaming of alkali-bonded SiC based foams. Ceramics International, 2012, 38, 3351-3359.	4.8	29
8	Heterogeneous chemistry in the 3-D state: an original approach to generate bioactive, mechanically-competent bone scaffolds. Biomaterials Science, 2019, 7, 307-321.	5.4	29
9	Orimulsion fly ash in clay bricksâ€”part 3. Journal of the European Ceramic Society, 2002, 22, 1749-1758.	5.7	28
10	Study of the hydrothermal transformation of wood-derived calcium carbonate into 3D hierarchically organized hydroxyapatite. Chemical Engineering Journal, 2013, 217, 150-158.	12.7	27
11	Biomineralization of a titanium-modified hydroxyapatite semiconductor on conductive wool fibers. Journal of Materials Chemistry B, 2017, 5, 7608-7621.	5.8	21
12	PZT prepared by spray drying: From powder synthesis to electromechanical properties. Journal of the European Ceramic Society, 2005, 25, 3323-3334.	5.7	19
13	Bone Regeneration in Load-Bearing Segmental Defects, Guided by Biomorphic, Hierarchically Structured Apatitic Scaffold. Frontiers in Bioengineering and Biotechnology, 2021, 9, 734486.	4.1	19
14	Corrosion behavior of Si3N4â€“TiN composite in sulphuric acid. Corrosion Science, 2005, 47, 1666-1677.	6.6	16
15	Ceramics with the signature of wood: a mechanical insight. Materials Today Bio, 2020, 5, 100032.	5.5	16
16	Hierarchical porosity inherited by natural sources affects the mechanical and biological behaviour of bone scaffolds. Journal of the European Ceramic Society, 2020, 40, 1717-1727.	5.7	15
17	Nature-Inspired Unconventional Approaches to Develop 3D Bioceramic Scaffolds with Enhanced Regenerative Ability. Biomedicines, 2021, 9, 916.	3.2	14
18	Graphene Oxide Nanoplatforms to Enhance Cisplatin-Based Drug Delivery in Anticancer Therapy. Nanomaterials, 2022, 12, 2372.	4.1	11

#	Article	IF	Citations
19	Ancient glass deterioration in mosaics of Pompeii. Surface Engineering, 2005, 21, 402-405.	2.2	10
20	Corrosion of hot pressed Si3N4â€“TiN composite in sulphuric acid aqueous solution. Corrosion Science, 2003, 45, 2525-2539.	6.6	8
21	In Vitro Osteoinductivity Assay of Hydroxylapatite Scaffolds, Obtained with Biomorphic Transformation Processes, Assessed Using Human Adipose Stem Cell Cultures. International Journal of Molecular Sciences, 2021, 22, 7092.	4.1	7
22	Corrosion of Si3N4â€“MoSi2 ceramic composite in acid- and basic-aqueous environments: surface modification and properties degradation. Applied Surface Science, 2004, 225, 100-115.	6.1	6
23	Study of the chemical activation of hydroxyapatite rich ashes as raw materials for geopolymers. Ceramics International, 2015, 41, 9734-9744.	4.8	6
24	Synthesis of Nanostructured Hydroxyapatite via Controlled Hydrothermal Route. , 0, , .		6
25	Corrosion of Electroconductive AlN-SiC-MoSi2Ceramic Composite in Sodium Hydroxide Aqueous Solution. Corrosion, 2003, 59, 765-773.	1.1	4
26	Hydroxyapatite: From Nanocrystals to Hybrid Nanocomposites for Regenerative Medicine. , 2016, , 119-144.		4
27	Nature-Inspired Processes and Structures: New Paradigms to Develop Highly Bioactive Devices for Hard Tissue Regeneration. , 2019, , .		4
28	Recycling of Steel Slag in Clay Brick Production. Key Engineering Materials, 2001, 206-213, 835-838.	0.4	3
29	Nature-Inspired Nanotechnology and Smart Magnetic Activation: Two Groundbreaking Approaches Toward a New Generation of Biomaterials for Hard Tissue Regeneration. , 2016, , .		3
30	Compositional and Technological Characteristics of the Inlay Wall Facing Ceramics of the JamÃ© Mosque in Esfahan (Iran). Key Engineering Materials, 2004, 264-268, 2403-2406.	0.4	2
31	Towards Hierarchically Organized Scaffolds for Bone Substitutes from Wood Structures. Key Engineering Materials, 2008, 361-363, 959-962.	0.4	2
32	Tissue engineering and biomimetics with bioceramics. , 2017, , 407-432.		2
33	Biomorphic Transformations: A Leap Forward in Getting Nanostructured 3-D Bioceramics. Frontiers in Chemistry, 2021, 9, 728907.	3.6	1
34	Hydroxyapatite: From Nanocrystals to Hybrid Nanocomposites for Regenerative Medicine. , 2015, , 1-26.		1
35	Corrosion of Electroconductive AlN-SiC-MoSi₂ Composite in NaOH Solution. Key Engineering Materials, 2004, 264-268, 945-948.	0.4	0
36	Unconventional, Nature-Inspired Approaches to Develop Bioceramics for Regenerative Medicine. , 2021, , 758-771.		0