Sayed Mahmood Rabiee

List of Publications by Year
in descending order

87 papers	1,661 citations	393982 19 h-index	315357 38 g-index
90 all docs	90 docs citations	90 times ranked	2235 citing authors

#	Article	IF	Citations
1	Prediction of the effective elastic moduli of porous bone scaffolds: Analytical and computational studies. International Journal of Modern Physics C, 2022, 33, .	0.8	4
2	Characterization of magnesium-hydroxyapatite functionally graded composites prepared by rapid microwave sintering technique. Ceramics International, 2022, 48, 12641-12653.	2.3	8
3	Exploring the Dependence of Magnetic and Structural Properties on Co-precipitated Replacement of Zn in CoFe2O4 Nanoparticles. Journal of Electronic Materials, 2022, 51, 2552-2563.	1.0	0
4	Influence of calcination parametersÂon the microstructure, magnetic and hyperthermia properties of Zn-Co ferrite nanoparticles. Journal of Electroceramics, 2022, 48, 157-168.	0.8	1
5	Optimization of composite bone scaffolds prepared by a new modified foam replica technique. Materials Today Communications, 2022, 31, 103293.	0.9	3
6	Bioactivity evaluation of printable calcium polyphosphate/alginoplast cement for bone tissue engineering; In vitro study. Bioprinting, 2022, 27, e00210.	2.9	2
7	EBSD study of the microstructure and texture evolution in an Alâ€“Siâ€“Cu alloy processed by route A ECAP. Journal of Alloys and Compounds, 2021, 858, 157651.	2.8	16
8	Effect of route BC-ECAP on microstructural evolution and mechanical properties of Alâ€“Siâ€“Cu alloy. Journal of Materials Science, 2021, 56, 3535-3550.	1.7	10
9	Titanium Dioxide Nanotubes Incorporated Bioactive Glass Nanocomposites: Synthesis, Characterization, Bioactivity Evaluation and Drug Loading. International Journal of Engineering, Transactions A: Basics, 2021, 34, .	0.5	3
10	Direct Impregnation of MgO Nanoparticles in 58S Bioactive Glass: Bioactivity Evaluation and Antibacterial Activity. Iranian Journal of Science and Technology, Transaction A: Science, 2021, 45, 885-898.	0.7	7
11	Textural Evaluation of Alâ€“Siâ€“Cu Alloy Processed by Route BC-ECAP. Metals and Materials International, 2021, 27, 2756-2772.	1.8	3
12	Influence of Thermomechanical Processing on the Microstructure and Tensile Behavior of Solution-Treated Al-18%Si-4.5%Cu Alloy. Journal of Materials Engineering and Performance, 2021, 30, 4651-4668.	1.2	4
13	Use of rapid microwave sintering technique for the processing of magnesium-hydroxyapatite composites. Ceramics International, 2021, 47, 13023-13034.	2.3	8
14	In-vitro evaluation and antibacterial activity of ZnO nanoparticles deposited on hydroxyapatite tablets by RF magnetron sputtering. Materials Today Communications, 2021, 28, 102520.	0.9	5
15	Effect of hot rolling on microstructure, crystallographic texture, and hardness of AZ31 alloy. Materials Chemistry and Physics, 2021, 273, 125130.	2.0	15
16	Effect of Route BC Equal-Channel Angular Pressing on the Microstructure, Microtexture, and Homogeneity of Al-18%Si-4.5%Cu Alloy. Journal of Materials Engineering and Performance, 2021, 30, 1577-1601.	1.2	1
17	Biological and bioactivity assessment of dextran nanocomposite hydrogel for bone regeneration. Progress in Biomaterials, 2021, 10, 271-280.	1.8	6
18	Effects of prior ECAP process on the dynamic impact behaviors of hypereutectic Al-Si alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 793, 139902.	2.6	19

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19	Nanoscale Multi-Layer Thin Film Fabricated by Cathodic Arc Evaporation (CAE) Method. Journal of Superhard Materials, 2020, 42, 78-89.	0.5	3
20	The Release Behavior, Biocompatibility and Physical Properties of Ald-loaded Strontium Doped Calcium Phosphate Cement. Journal of Bionic Engineering, 2020, 17, 1209-1223.	2.7	2
21	Three-dimensional printing of truss-like structure for use in scaffold: Experimental, numerical, and analytical analyses. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 3133-3142.	1.1	5
22	Fabrication and physicochemical characterization of a novel magnetic nanocomposite scaffold: Electromagnetic field effect on biological properties. Materials Science and Engineering C, 2020, 116, 111222.	3.8	11
23	Influence of Crystallographic Texture on the Corrosion Product Morphology and Corrosion Rate of AZ31 Plate in Simulated Body Fluid. Journal of Materials Engineering and Performance, 2020, 29, 3824-3830.	1.2	5
24	Experimental and numerical investigation of polymethyl methacrylate scaffolds for bone tissue engineering. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2020, 234, 586-594.	0.7	2
25	Design and Analysis of Porous Functionally Graded Femoral Prostheses with Improved Stress Shielding. Designs, 2020, 4, 12.	1.3	23
26	Novel calcium phosphate coated calcium silicate-based cement: in vitro evaluation. Biomedical Materials (Bristol), 2020, 15, 035008.	1.7	6
27	Fabrication and characterization of dextran/nanocrystalline Î²-tricalcium phosphate nanocomposite hydrogel scaffolds. International Journal of Biological Macromolecules, 2020, 148, 434-448.	3.6	46
28	A novel modification for polymer sponge method to fabricate the highly porous composite bone scaffolds with large aspect ratio suitable for repairing critical-sized bone defects. Vacuum, 2020, 176, 109316.	1.6	16
29	Corrosion Behavior of TiN/CrN Nanoscale Multi-layered Coating in Ringer's Solution. International Journal of Engineering Transactions B: Applications, 2020, 33, .	0.6	1
30	Effect of ECAP on microstructure and tensile properties of A390 aluminum alloy. Transactions of Nonferrous Metals Society of China, 2019, 29, 931-940.	1.7	35
31	In vitro apatite formation of calcium phosphate composite synthesized from fish bone. International Journal of Applied Ceramic Technology, 2019, 16, 1969-1978.	1.1	13
32	Textureâ€“Microstructure Correlation in Hot-Rolled AZ31. Transactions of the Indian Institute of Metals, 2019, 72, 1775-1781.	0.7	0
33	Electrospun Poly-Îµ-Caprolactone (PCL)/Dicalcium Phosphate Dihydrate (DCPD) Composite Scaffold for Tissue Engineering Application. Molecular Biotechnology, 2019, 61, 345-354.	1.3	12
34	Texture and microstructure evolution of A390 aluminum alloy during ECAP. Materials Research Express, 2019, 6, 076536.	0.8	13
35	Nanostructured akermanite glass-ceramic coating on Ti6Al4V for orthopedic applications. Journal of Applied Biomaterials and Functional Materials, 2019, 17, 228080001879381.	0.7	4
36	The effect of bioactive glass nanoparticles on polycaprolactone/chitosan scaffold: Melting enthalpy and cell viability. Journal of Bioactive and Compatible Polymers, 2019, 34, 97-111.	0.8	18

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37	Layered manufacturing of a three-dimensional polymethyl methacrylate (PMMA) scaffold used for bone regeneration. Materials Technology, 2019, 34, 167-177.	1.5	20
38	Structural Behavior and In Vitro Bioactivity Evaluation of Sol-Gel Derived Glass-Ceramics Based on SiO2- CaO- P2O5- ZnO System. Silicon, 2018, 10, 67-75.	1.8	8
39	Dextran hydrogels incorporated with bioactive glass-ceramic: Nanocomposite scaffolds for bone tissue engineering. Carbohydrate Polymers, 2018, 190, 281-294.	5.1	71
40	In-vitro formation and growth kinetics of apatite on a new light-cured composite calcium phosphate cement. Ceramics International, 2018, 44, 15317-15322.	2.3	9
41	The modified Mori-Tanaka scheme for the prediction of the effective elastic properties of highly porous ceramics. Ceramics International, 2018, 44, 16489-16497.	2.3	16
42	Antimicrobial effect, frictional resistance, and surface roughness of stainless steel orthodontic brackets coated with nanofilms of silver and titanium oxide: a preliminary study. Microscopy Research and Technique, 2017, 80, 599-607.	1.2	41
43	Effect of CO₂ laser power intensity on the surface morphology and friction behavior of alumina ceramic brackets. Microscopy Research and Technique, 2017, 80, 923-929.	1.2	4
44	Synergic effect of chitosan and dicalcium phosphate on tricalcium silicate-based nanocomposite for root-end dental application. Materials Science and Engineering C, 2017, 80, 631-641.	3.8	22
45	Development and characterization of a bioglass/chitosan composite as an injectable bone substitute. Carbohydrate Polymers, 2017, 157, 1261-1271.	5.1	50
46	Clinical, Histological and Histomorphometric Evaluation of Effects of Silver Ion Coating of Orthodontic Fixed Retainers on Gingival Health in Rabbits. Biomedical and Pharmacology Journal, 2017, 10, 525-533.	0.2	0
47	Microstructural and mechanical properties of Al-Al<SUB align="right">2O<SUB align="right">3 composites focus on experimental techniques. International Journal of Microstructure and Materials Properties, 2016, 11, 383.	0.1	4
48	Investigation of hydroxyapatite dicalcium phosphate scaffold properties using a Lamarckian immune neural network. International Journal of Computer Applications in Technology, 2016, 53, 323.	0.3	3
49	A Freestanding Sol-Gel Technique for Growth of Nanowire Arrays in SiO 2 -CaO-P 2 O 5 -ZrO 2 System. Silicon, 2016, 8, 233-237.	1.8	1
50	Three-dimensional laser drilling of polymethyl methacrylate (PMMA) scaffold used for bone regeneration. International Journal of Advanced Manufacturing Technology, 2016, 84, 2649-2657.	1.5	21
51	Thermal stability of nanocrystalline Mg-based alloys prepared via mechanical alloying. Transactions of Nonferrous Metals Society of China, 2016, 26, 398-405.	1.7	14
52	Microstructural and mechanical properties of Al-Al<SUB align="right">2O<SUB align="right">3 composites focus on experimental techniques. International Journal of Microstructure and Materials Properties, 2016, 11, 383.	0.1	5
53	Evaluation of Antibacterial Effects of Silver-Coated Stainless Steel Orthodontic Brackets. Journal of Dentistry of Tehran University of Medical Sciences, 2016, 13, 49-54.	0.4	1
54	The effects of silver coating on friction coefficient and shear bond strength of steel orthodontic brackets. Scanning, 2015, 37, 294-299.	0.7	20

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55	Histopathological, Histomorphometrical, and Radiographical Evaluation of Injectable Glass-Ceramic-Chitosan Nanocomposite in Bone Reconstruction of Rat. International Journal of Biomaterials, 2015, 2015, 1-8.	1.1	10
56	Histopathological evaluation of potential impact of Î²-tricalcium phosphate (HA+ Î²-TCP) granules on healing of segmental femur bone defect. Bratislava Medical Journal, 2015, 116, 30-34.	0.4	7
57	Effect of ion substitution on properties of bioactive glasses: A review. Ceramics International, 2015, 41, 7241-7251.	2.3	216
58	Experimental assessment of functionally graded reinforced concrete (FGRC) slabs under drop weight and projectile impacts. Construction and Building Materials, 2015, 95, 296-311.	3.2	82
59	Characterization of porous Ti-bioglass composite produced by mechanical milling and space holder sintering. Rare Metals, 2015, 34, 638-644.	3.6	3
60	Calcium Phosphate/Etidronate Disodium Biocement: Etidronate, Retarder or Accelerator. Nano Biomedicine and Engineering, 2014, 6, .	0.3	1
61	Effect of Alumina on Microstructure and Compressive Strength of a Porous Silicated Hydroxyapatite. Journal of Applied Biomaterials and Functional Materials, 2014, 12, 102-106.	0.7	5
62	Development of hydroxyapatite bone cement for controlled drug release via tetracycline hydrochloride. Bulletin of Materials Science, 2013, 36, 171-174.	0.8	11
63	Synthesis and Characterization of Amorphous Nanoâ€Alumina Powders with High Surface Area for Biodiesel Production. Chemical Engineering and Technology, 2013, 36, 1708-1712.	0.9	10
64	Bone regeneration based on nano-hydroxyapatite and hydroxyapatite/chitosan nanocomposites: an in vitro and in vivo comparative study. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	51
65	Effect of Zirconia Concentration on the Growth of Nanowires in Bioactive Glassâ€“Ceramic Coatings. International Journal of Applied Ceramic Technology, 2013, 10, 33-39.	1.1	8
66	The fabrication of nanocomposites via calcium phosphate formation on gelatinâ€“chitosan network and the gelatin influence on the properties of biphasic composites. Materials Science and Engineering C, 2013, 33, 370-375.	3.8	18
67	Application of self-learning evolutionary algorithm for optimal design of a porous polymethylmethacrylate scaffold fabricated by laser drilling process. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2013, 227, 211-224.	1.4	8
68	Quenched/unquenched nano bioactive glass-ceramics: Synthesis and in vitro bioactivity evaluation in Ringerâ€™s solution with BSA. Chemical Industry and Chemical Engineering Quarterly, 2013, 19, 231-239.	0.4	3
69	Influence of zirconia on microstructure of bioactive glass coated on stainless steel for biomedical application. , 2012, , .		0
70	Antibacterial activity of silver photodeposited nepheline thin film coatings. Ceramics International, 2012, 38, 5445-5451.	2.3	33
71	Prediction of the Setting Properties of Calcium Phosphate Bone Cement. Computational Intelligence and Neuroscience, 2012, 2012, 1-8.	1.1	12
72	Synthesis and characterization of hydroxyapatite/chitosan nanocomposite materials for medical engineering applications. Composites Part B: Engineering, 2012, 43, 1881-1886.	5.9	174

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73	Synthesises, characterization and comparative study of bone regeneration on nano hydroxyapatite and hydroxyapatite/chitosan nanocomposite in rat. , 2011, , .		1
74	Porous tricalcium phosphate scaffold for bone substitute. , 2011, , .		0
75	Preparation, mechanical properties, and in vitro biocompatibility of novel nanocomposites based on polyhexamethylene carbonate fumarate and nanohydroxyapatite. Polymers for Advanced Technologies, 2011, 22, 605-611.	1.6	15
76	Hydroxyapatite scaffolds infiltrated with thermally crosslinked polycaprolactone fumarate and polycaprolactone itaconate. Journal of Biomedical Materials Research - Part A, 2011, 98A, 257-267.	2.1	28
77	Synthesis of nano-bioactive glassâ€“ceramic powders and its in vitro bioactivity study in bovine serum albumin protein. Journal of Molecular Structure, 2011, 998, 37-41.	1.8	36
78	Synthesis and characterization of hydroxyapatite cement. Journal of Molecular Structure, 2010, 969, 172-175.	1.8	35
79	Mechanical strength and setting times estimation of hydroxyapatite cement by using neural network. Materials & Design, 2010, 31, 2585-2591.	5.1	17
80	Synthesis, characterization and bioactivity investigation of bioglass/hydroxyapatite composite. Ceramics International, 2010, 36, 291-297.	2.3	155
81	Biocompatibility and Mineralization Activity of Fresh or Set White Mineral Trioxide Aggregate, Biomimetic Carbonated Apatite, and Synthetic Hydroxyapatite. Journal of Endodontics, 2010, 36, 1036-1041.	1.4	26
82	Association of a synthetic bone graft and bone marrow cells as a composite biomaterial. Biotechnology and Bioprocess Engineering, 2009, 14, 1-5.	1.4	8
83	Mechanical behavior of a new biphasic calcium phosphate bone graft. Biotechnology and Bioprocess Engineering, 2008, 13, 204-209.	1.4	16
84	Study of biodegradable ceramic bone graft substitute. Advances in Applied Ceramics, 2008, 107, 199-202.	0.6	17
85	Evaluating Initial Content of the Slurry and Cooling Rate on the Microstructural and Mechanical Characteristics of Freeze Casted Hydroxyapatite Macroporous Scaffolds. Key Engineering Materials, 0, 529-530, 147-152.	0.4	7
86	Mechanical Properties Improvement of Porous Titanium-Bioglass Nanocomposites by Mechanical Alloying. Advanced Materials Research, 0, 829, 319-323.	0.3	0
87	Novel Methods for Adding Metal Oxides Nanoparticles to Bioactive Glass 58S Matrix: A Characterization and Bioactivity Evaluation Study. Silicon, 0, , 1.	1.8	3