Masoud Mozafari

List of Publications by Year
in descending order

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400	15,431	13865 67	30922 102
papers	citations	h-index	g-index

409	409	409	16032
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Agarose-based biomaterials for tissue engineering. Carbohydrate Polymers, 2018, 187, 66-84.	10.2	454
2	Electrospinning for tissue engineering applications. Progress in Materials Science, 2021, 117, 100721.	32.8	378
3	Timing of surgery following SARSâ€CoVâ€2 infection: an international prospective cohort study. Anaesthesia, 2021, 76, 748-758.	3.8	365
4	Aging and osteoarthritis: Central role of the extracellular matrix. Ageing Research Reviews, 2017, 40, 20-30.	10.9	335
5	Inflammatory mediators in osteoarthritis: A critical review of the state-of-the-art, current prospects, and future challenges. Bone, 2016, 85, 81-90.	2.9	279
6	Fullerene: biomedical engineers get to revisit an old friend. Materials Today, 2017, 20, 460-480.	14.2	274
7	Bioactive Glasses: Sprouting Angiogenesis in Tissue Engineering. Trends in Biotechnology, 2018, 36, 430-444.	9.3	253
8	Thermo-sensitive polymers in medicine: A review. European Polymer Journal, 2019, 117, 402-423.	5.4	206
9	Synthesis and characterization of electrospun polyvinyl alcohol nanofibrous scaffolds modified by blending with chitosan for neural tissue engineering. International Journal of Nanomedicine, 2012, 7, 25.	6.7	205
10	Poloxamer: A versatile tri-block copolymer for biomedical applications. Acta Biomaterialia, 2020, 110, 37-67.	8.3	188
11	Oxygen-Generating Biomaterials: A New, Viable Paradigm for Tissue Engineering?. Trends in Biotechnology, 2016, 34, 1010-1021.	9.3	186
12	Nanotechnology and Nanomedicine: Start small, think big. Materials Today: Proceedings, 2018, 5, 15492-15500.	1.8	167
13	Chitosan in Biomedical Engineering: A Critical Review. Current Stem Cell Research and Therapy, 2019, 14, 93-116.	1.3	165
14	Future sustainability scenarios for universities: moving beyond the United Nations Decade of Education for Sustainable Development. Journal of Cleaner Production, 2016, 112, 3464-3478.	9.3	161
15	Can regenerative medicine and nanotechnology combine to heal wounds? The search for the ideal wound dressing. Nanomedicine, 2017, 12, 2403-2422.	3.3	160
16	Status and future scope of plant-based green hydrogels in biomedical engineering. Applied Materials Today, 2019, 16, 213-246.	4.3	154
17	Electrically Conductive Materials: Opportunities and Challenges in Tissue Engineering. Biomolecules, 2019, 9, 448.	4.0	142
18	Strontium- and cobalt-substituted bioactive glasses seeded with human umbilical cord perivascular cells to promote bone regeneration via enhanced osteogenic and angiogenic activities. Acta Biomaterialia, 2017, 58, 502-514.	8.3	139

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19	Electrically conductive nanomaterials for cardiac tissue engineering. Advanced Drug Delivery Reviews, 2019, 144, 162-179.	13.7	137
20	Nanotechnology for angiogenesis: opportunities and challenges. Chemical Society Reviews, 2020, 49, 5008-5057.	38.1	135
21	Fullerene-based delivery systems. Drug Discovery Today, 2019, 24, 898-905.	6.4	134
22	Agarose-based biomaterials for advanced drug delivery. Journal of Controlled Release, 2020, 326, 523-543.	9.9	134
23	Accelerated wound healing in a diabetic rat model using decellularized dermal matrix and human umbilical cord perivascular cells. Acta Biomaterialia, 2016, 45, 234-246.	8.3	122
24	Agarose-Based Biomaterials: Opportunities and Challenges in Cartilage Tissue Engineering. Polymers, 2020, 12, 1150.	4.5	120
25	Oligoaniline-based conductive biomaterials for tissue engineering. Acta Biomaterialia, 2018, 72, 16-34.	8.3	119
26	Enhanced corrosion resistance and in-vitro biodegradation of plasma electrolytic oxidation coatings prepared on AZ91 Mg alloy using ZnO nanoparticles-incorporated electrolyte. Surface and Coatings Technology, 2019, 360, 153-171.	4.8	119
27	Decellularized ECM-derived bioinks: Prospects for the future. Methods, 2020, 171, 108-118.	3.8	113
28	Zeolites in drug delivery: Progress, challenges and opportunities. Drug Discovery Today, 2020, 25, 642-656.	6.4	113
29	Investigation of the physico-chemical reactivity of a mesoporous bioactive SiO2â€“CaOâ€“P2O5 glass in simulated body fluid. Journal of Non-Crystalline Solids, 2010, 356, 1470-1478.	3.1	110
30	Development of macroporous nanocomposite scaffolds of gelatin/bioactive glass prepared through layer solvent casting combined with lamination technique for bone tissue engineering. Ceramics International, 2010, 36, 2431-2439.	4.8	109
31	Super-paramagnetic responsive silk fibroin/chitosan/magnetite scaffolds with tunable pore structures for bone tissue engineering applications. Materials Science and Engineering C, 2017, 70, 736-744.	7.3	106
32	Corneal Repair and Regeneration: Current Concepts and Future Directions. Frontiers in Bioengineering and Biotechnology, 2019, 7, 135.	4.1	105
33	Antibacterial glass-ionomer cement restorative materials: A critical review on the current status of extended release formulations. Journal of Controlled Release, 2017, 262, 317-328.	9.9	104
34	Biomimetic formation of apatite on the surface of porous gelatin/bioactive glass nanocomposite scaffolds. Applied Surface Science, 2010, 257, 1740-1749.	6.1	103
35	Additive Manufacturing of Biomaterials â˜ The Evolution of Rapid Prototyping. Advanced Engineering Materials, 2019, 21, 1800511.	3.5	103
36	Quantum Dots: A Review from Concept to Clinic. Biotechnology Journal, 2020, 15, e2000117.	3.5	103

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37	Epoxy/starch-modified nano-zinc oxide transparent nanocomposite coatings: A showcase of superior curing behavior. Progress in Organic Coatings, 2018, 115, 143-150.	3.9	99
38	Silk fibroin/amniotic membrane 3D bi-layered artificial skin. Biomedical Materials (Bristol), 2018, 13, 035003.	3.3	97
39	Chitosan-based blends for biomedical applications. International Journal of Biological Macromolecules, 2021, 183, 1818-1850.	7.5	97
40	Nanomaterials engineering for drug delivery: a hybridization approach. Journal of Materials Chemistry B, 2017, 5, 3995-4018.	5.8	96
41	Bioactive glasses entering the mainstream. Drug Discovery Today, 2018, 23, 1700-1704.	6.4	96
42	High-performance supercapacitors based on polyanilineâ€“graphene nanocomposites: Some approaches, challenges and opportunities. Journal of Industrial and Engineering Chemistry, 2016, 36, 13-29.	5.8	94
43	A bird's eye view on the use of electrospun nanofibrous scaffolds for bone tissue engineering: Current stateâ€ofâ€theâ€art, emerging directions and future trends. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 2181-2200.	3.3	93
44	A facile route to the synthesis of anilinic electroactive colloidal hydrogels for neural tissue engineering applications. Journal of Colloid and Interface Science, 2018, 516, 57-66.	9.4	92
45	Controllable synthesis and characterization of porous polyvinyl alcohol/hydroxyapatite nanocomposite scaffolds via an in situ colloidal technique. Colloids and Surfaces B: Biointerfaces, 2011, 84, 310-316.	5.0	89
46	Osteogenic potential of stem cellsâ€seeded bioactive nanocomposite scaffolds: A comparative study between human mesenchymal stem cells derived from bone, umbilical cord Wharton's jelly, and adipose tissue. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 61-72.	3.4	89
47	Biomedical applications of nanoceria: new roles for an old player. Nanomedicine, 2018, 13, 3051-3069.	3.3	87
48	Electrospun Nanofibers: From Filtration Membranes to Highly Specialized Tissue Engineering Scaffolds. Journal of Nanoscience and Nanotechnology, 2014, 14, 522-534.	0.9	86
49	Glass-ceramics for cancer treatment: So close, or yet so far?. Acta Biomaterialia, 2019, 83, 55-70.	8.3	85
50	Development and curing potential of epoxy/starch-functionalized graphene oxide nanocomposite coatings. Progress in Organic Coatings, 2018, 119, 194-202.	3.9	83
51	Chitosan-Intercalated Montmorillonite/Poly(vinyl alcohol) Nanofibers as a Platform to Guide Neuronlike Differentiation of Human Dental Pulp Stem Cells. ACS Applied Materials & Interfaces, 2017, 9, 11392-11404.	8.0	81
52	Protein adsorption on polymers. Materials Today Communications, 2018, 17, 527-540.	1.9	78
53	Natural Polymers Decorated MOF-MXene Nanocarriers for Co-delivery of Doxorubicin/pCRISPR. ACS Applied Bio Materials, 2021, 4, 5106-5121.	4.6	78
54	Synthesis, physico-chemical and biological characterization of strontium and cobalt substituted bioactive glasses for bone tissue engineering. Journal of Non-Crystalline Solids, 2016, 449, 133-140.	3.1	77

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55	3Dâ€“printed biphasic calcium phosphate scaffolds coated with an oxygen generating system for enhancing engineered tissue survival. Materials Science and Engineering C, 2018, 84, 236-242.	7.3	77
56	Biodegradable magnesiumâ€based biomaterials: An overview of challenges and opportunities. MedComm, 2021, 2, 123-144.	7.2	77
57	Surface Modification of Stainless Steel Orthopedic Implants by Solâ€“Gel ZrTiO₄ and ZrTiO₄â€“PMMA Coatings. Journal of Biomedical Nanotechnology, 2013, 9, 1327-1335.	1.1	76
58	Acceleration of bone regeneration in bioactive glass/gelatin composite scaffolds seeded with bone marrow-derived mesenchymal stem cells over-expressing bone morphogenetic protein-7. Materials Science and Engineering C, 2017, 75, 688-698.	7.3	76
59	Chitosan-based inks for 3D printing and bioprinting. Green Chemistry, 2022, 24, 62-101.	9.0	76
60	Synthesis and solubility of calcium fluoride/hydroxy-fluorapatite nanocrystals for dental applications. Ceramics International, 2011, 37, 2007-2014.	4.8	75
61	Biocompatibility of aluminaâ€based biomaterialsâ€“A review. Journal of Cellular Physiology, 2019, 234, 3321-3335.	4.1	75
62	Tissue engineering with electrospun electro-responsive chitosan-aniline oligomer/polyvinyl alcohol. International Journal of Biological Macromolecules, 2020, 147, 160-169.	7.5	75
63	Self-gelling electroactive hydrogels based on chitosanâ€“aniline oligomers/agarose for neural tissue engineering with on-demand drug release. Colloids and Surfaces B: Biointerfaces, 2019, 184, 110549.	5.0	74
64	Development of a Costâ€Effective and Simple Protocol for Decellularization and Preservation of Human Amniotic Membrane as a Soft Tissue Replacement and Delivery System for Bone Marrow Stromal Cells. Advanced Healthcare Materials, 2015, 4, 918-926.	7.6	72
65	Calcium carbonate: Adored and ignored in bioactivity assessment. Acta Biomaterialia, 2019, 91, 35-47.	8.3	72
66	3D Protein-Based Bilayer Artificial Skin for the Guided Scarless Healing of Third-Degree Burn Wounds in Vivo. Biomacromolecules, 2018, 19, 2409-2422.	5.4	68
67	Optimization strategies on the structural modeling of gelatin/chitosan scaffolds to mimic human meniscus tissue. Materials Science and Engineering C, 2013, 33, 4777-4785.	7.3	67
68	Multilayer bioactive glass/zirconium titanate thin films in bone tissue engineering and regenerative dentistry. International Journal of Nanomedicine, 2013, 8, 1665.	6.7	67
69	Decellularized human amniotic membrane: how viable is it as a delivery system for human adipose tissueâ€derived stromal cells?. Cell Proliferation, 2016, 49, 115-121.	5.3	65
70	Copper-containing bioactive glasses and glass-ceramics: From tissue regeneration to cancer therapeutic strategies. Materials Science and Engineering C, 2021, 121, 111741.	7.3	65
71	Enhancement of fracture toughness in bioactive glass-based nanocomposites with nanocrystalline forsterite as advanced biomaterials for bone tissue engineering applications. Ceramics International, 2012, 38, 5007-5014.	4.8	62
72	The Use of Carbon Nanotubes to Reinforce 45S5 Bioglass-Based Scaffolds for Tissue Engineering Applications. BioMed Research International, 2013, 2013, 1-8.	1.9	62

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73	Decellularized human amniotic membrane: more is needed for an efficient dressing for protection of burns against antibiotic-resistant bacteria isolated from burn patients. Burns, 2015, 41, 1488-1497.	1.9	62
74	Synthesis and characterization of electrospun cerium-doped bioactive glass/chitosan/polyethylene oxide composite scaffolds for tissue engineering applications. Ceramics International, 2021, 47, 260-271.	4.8	62
75	How can genipin assist gelatin/carbohydrate chitosan scaffolds to act as replacements of load-bearing soft tissues?. Carbohydrate Polymers, 2013, 93, 635-643.	10.2	60
76	Fabrication andin vivoevaluation of an osteoblast-conditioned nano-hydroxyapatite/gelatin composite scaffold for bone tissue regeneration. Journal of Biomedical Materials Research - Part A, 2016, 104, 2001-2010.	4.0	59
77	Corrosion behavior and in-vitro bioactivity of porous Mg/Al2O3 and Mg/Si3N4 metal matrix composites fabricated using microwave sintering process. Materials Chemistry and Physics, 2019, 225, 331-339.	4.0	59
78	A systematic study on the use of ultrasound energy for the synthesis of nickelâ€“metal organic framework compounds. Ultrasonics Sonochemistry, 2015, 27, 395-402.	8.2	58
79	Diamond-like carbon thin films prepared by pulsed-DC PE-CVD for biomedical applications. Surface Innovations, 2018, 6, 167-175.	2.3	58
80	Chemistry of biomaterials: future prospects. Current Opinion in Biomedical Engineering, 2019, 10, 181-190.	3.4	58
81	Bone Tissue Engineering Using Human Cells: A Comprehensive Review on Recent Trends, Current Prospects, and Recommendations. Applied Sciences (Switzerland), 2019, 9, 174.	2.5	58
82	Synthesis and Characterization of Poly(lactic-co-glycolic) Acid Nanoparticles-Loaded Chitosan/Bioactive Glass Scaffolds as a Localized Delivery System in the Bone Defects. BioMed Research International, 2014, 2014, 1-9.	1.9	57
83	Turning Toxic Nanomaterials into a Safe and Bioactive Nanocarrier for Co-delivery of DOX/pCRISPR. ACS Applied Bio Materials, 2021, 4, 5336-5351.	4.6	57
84	Hearts beating through decellularized scaffolds: whole-organ engineering for cardiac regeneration and transplantation. Critical Reviews in Biotechnology, 2016, 36, 705-715.	9.0	56
85	Synthesis and characterization of timolol maleate-loaded quaternized chitosan-based thermosensitive hydrogel: A transparent topical ocular delivery system for the treatment of glaucoma. International Journal of Biological Macromolecules, 2020, 159, 117-128.	7.5	56
86	Tissue-engineered chitosan/bioactive glass bone scaffolds integrated with PLGA nanoparticles: A therapeutic design for on-demand drug delivery. Materials Letters, 2015, 138, 16-20.	2.6	55
87	Electrical discharge machining characteristics of nickelâ€“titanium shape memory alloy based on full factorial design. Journal of Intelligent Material Systems and Structures, 2013, 24, 1546-1556.	2.5	54
88	Synthesis, characterization, and thermoelectric properties of nanostructured bulk p-type MnSi1.73, MnSi1.75, and MnSi1.77. Ceramics International, 2013, 39, 2353-2358.	4.8	54
89	Poloxamer-based stimuli-responsive biomaterials. Materials Today: Proceedings, 2018, 5, 15516-15523.	1.8	54
90	Mesoporous bioactive glasses (MBGs) in cancer therapy: Full of hope and promise. Materials Letters, 2019, 251, 241-246.	2.6	54

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91	Biomaterials selection for neuroprosthetics. Current Opinion in Biomedical Engineering, 2018, 6, 99-109.	3.4	53
92	Curcumin in tissue engineering: A traditional remedy for modern medicine. BioFactors, 2019, 45, 135-151.	5.4	53
93	In Vitro Electrochemical Corrosion and Cell Viability Studies on Nickel-Free Stainless Steel Orthopedic Implants. PLoS ONE, 2013, 8, e61633.	2.5	52
94	Improved corrosion performance of biodegradable magnesium in simulated inflammatory condition via drug-loaded plasma electrolytic oxidation coatings. Materials Chemistry and Physics, 2020, 239, 122003.	4.0	52
95	Zeolite in tissue engineering: Opportunities and challenges. MedComm, 2020, 1, 5-34.	7.2	51
96	Nanomaterials for photothermal and photodynamic cancer therapy. Applied Physics Reviews, 2022, 9, .	11.3	50
97	Chitosan/polyvinyl alcohol nanofibrous membranes: towards green super-adsorbents for toxic gases. Heliyon, 2019, 5, e01527.	3.2	49
98	Optimization of nanofibrous silk fibroin scaffold as a delivery system for bone marrow adherent cells: in vitro and in vivo studies. Biotechnology and Applied Biochemistry, 2015, 62, 785-794.	3.1	48
99	Mesenchymal Stem Cell Spheroids Embedded in an Injectable Thermosensitive Hydrogel: An In Situ Drug Formation Platform for Accelerated Wound Healing. ACS Biomaterials Science and Engineering, 2020, 6, 5096-5109.	5.2	48
100	Synergistically reinforcement of a self-setting calcium phosphate cement with bioactive glass fibers. Ceramics International, 2011, 37, 927-934.	4.8	47
101	The effect of hyaluronic acid on biofunctionality of gelatinâ€“collagen intestine tissue engineering scaffolds. Journal of Biomedical Materials Research - Part A, 2014, 102, 3130-3139.	4.0	47
102	Nitric oxide-releasing vascular grafts: A therapeutic strategy to promote angiogenic activity and endothelium regeneration. Acta Biomaterialia, 2019, 92, 82-91.	8.3	47
103	Using Bioactive Glasses in the Management of Burns. Frontiers in Bioengineering and Biotechnology, 2019, 7, 62.	4.1	47
104	Biological Response to Carbon-Family Nanomaterials: Interactions at the Nano-Bio Interface. Frontiers in Bioengineering and Biotechnology, 2019, 7, 4.	4.1	47
105	Metal-Organic Frameworks (MOFs)-Based Nanomaterials for Drug Delivery. Materials, 2021, 14, 3652.	2.9	47
106	Ion exchange behaviour of silver-doped apatite micro- and nanoparticles as antibacterial biomaterial. Micro and Nano Letters, 2011, 6, 713.	1.3	46
107	Diamond-like carbon-deposited films: a new class of biocorrosion protective coatings. Surface Innovations, 2018, 6, 266-276.	2.3	46
108	Functionally graded titanium implants: Characteristic enhancement induced by combined severe plastic deformation. PLoS ONE, 2019, 14, e0221491.	2.5	46

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109	Strontium- and Cobalt-Doped Multicomponent Mesoporous Bioactive Glasses (MBGs) for Potential Use in Bone Tissue Engineering Applications. Materials, 2020, 13, 1348.	2.9	46
110	Preparation of laminated poly(Îµ-caprolactone)-gelatin-hydroxyapatite nanocomposite scaffold bioengineered via compound techniques for bone substitution. Biomatter, 2011, 1, 91-101.	2.6	45
111	Biomineralization and biocompatibility studies of bone conductive scaffolds containing poly(3,4-ethylenedioxythiophene):poly(4-styrene sulfonate) (PEDOT:PSS). Journal of Materials Science: Materials in Medicine, 2015, 26, 274.	3.6	45
112	In vitro and in vivo evaluations of threeâ€dimensional hydroxyapatite/silk fibroin nanocomposite scaffolds. Biotechnology and Applied Biochemistry, 2015, 62, 441-450.	3.1	45
113	Improving corrosion behavior and in vitro bioactivity of plasma electrolytic oxidized AZ91 magnesium alloy using calcium fluoride containing electrolyte. Materials Letters, 2018, 212, 98-102.	2.6	45
114	3D-printed barium strontium titanate-based piezoelectric scaffolds for bone tissue engineering. Ceramics International, 2019, 45, 14029-14038.	4.8	45
115	Conductive biomaterials as nerve conduits: Recent advances and future challenges. Applied Materials Today, 2020, 20, 100784.	4.3	45
116	Zeolites for theranostic applications. Journal of Materials Chemistry B, 2020, 8, 5992-6012.	5.8	45
117	A new double-layer solâ€“gel coating to improve the corrosion resistance of a medical-grade stainless steel in a simulated body fluid. Materials Letters, 2013, 97, 162-165.	2.6	44
118	Metalâ€“Organic Frameworks (MOFs) for Cancer Therapy. Materials, 2021, 14, 7277.	2.9	44
119	Osteoblastâ€“Seeded Bioglass/Gelatin Nanocomposite: A Promising Bone Substitute in Critical-Size Calvarial Defect Repair in Rat. International Journal of Artificial Organs, 2016, 39, 524-533.	1.4	43
120	Synthesis and microstructural characterization of GelMa/PEGDA hybrid hydrogel containing graphene oxide for biomedical purposes. Materials Today: Proceedings, 2018, 5, 15635-15644.	1.8	43
121	Multifunctional 3D Hierarchical Bioactive Green Carbon-Based Nanocomposites. ACS Sustainable Chemistry and Engineering, 2021, 9, 8706-8720.	6.7	43
122	Synthesis and Characterization of Doxorubicin-Loaded Poly(Lactide-co-glycolide) Nanoparticles as a Sustained-Release Anticancer Drug Delivery System. Applied Biochemistry and Biotechnology, 2012, 168, 1434-1447.	2.9	41
123	Towards an orientation of higher education in the post Rio+20 process: How is the game changing?. Futures, 2014, 63, 49-67.	2.5	41
124	Cerium Oxide Nanoparticles: Recent Advances in Tissue Engineering. Materials, 2020, 13, 3072.	2.9	41
125	Cerium-doped bioactive glass-loaded chitosan/polyethylene oxide nanofiber with elevated antibacterial properties as a potential wound dressing. Ceramics International, 2021, 47, 9447-9461.	4.8	41
126	Controllable synthesis, characterization and optical properties of colloidal PbS/gelatin coreâ€“shell nanocrystals. Journal of Colloid and Interface Science, 2010, 351, 442-448.	9.4	40

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127	Zirconium titanate thin film prepared by an aqueous particulate solâ€“gel spin coating process using carboxymethyl cellulose as dispersant. Materials Letters, 2012, 88, 5-8.	2.6	40
128	Electrophoretic deposition of graphene oxide on plasma electrolytic oxidized-magnesium implants for bone tissue engineering applications. Materials Today: Proceedings, 2018, 5, 15603-15612.	1.8	40
129	Photoluminescence in the characterization and early detection of biomimetic bone-like apatite formation on the surface of alkaline-treated titanium implant: State of the art. Colloids and Surfaces B: Biointerfaces, 2011, 86, 390-396.	5.0	39
130	Polyaniline in retrospect and prospect. Materials Today: Proceedings, 2018, 5, 15852-15860.	1.8	39
131	Decellularized human amniotic membrane: From animal models to clinical trials. Methods, 2020, 171, 11-19.	3.8	39
132	Emerging magnesium-based biomaterials for orthopedic implantation. Emerging Materials Research, 2019, 8, 305-319.	0.7	38
133	Effect of ZnO pore-sealing layer on anti-corrosion and in-vitro bioactivity behavior of plasma electrolytic oxidized AZ91 magnesium alloy. Materials Letters, 2020, 258, 126779.	2.6	38
134	Application of compatibilized polymer blends in biomedical fields. , 2020, , 511-537.		38
135	Oxygen-Releasing Scaffolds for Accelerated Bone Regeneration. ACS Biomaterials Science and Engineering, 2020, 6, 2985-2994.	5.2	38
136	Development of 3D Bioactive Nanocomposite Scaffolds Made from Gelatin and Nano Bioactive Glass for Biomedical Applications. Advanced Composites Letters, 2010, 19, 096369351001900.	1.3	37
137	Multilayer zirconium titanate thin films prepared by a solâ€“gel deposition method. Ceramics International, 2013, 39, 1271-1276.	4.8	37
138	Silver- and fluoride-containing mesoporous bioactive glasses versus commonly used antibiotics: Activity against multidrug-resistant bacterial strains isolated from patients with burns. Burns, 2016, 42, 131-140.	1.9	37
139	Optimisation and biological activities of bioceramic robocast scaffolds provided with an oxygen-releasing coating for bone tissue engineering applications. Ceramics International, 2019, 45, 805-816.	4.8	37
140	A rapid and efficient thermal decomposition approach for the synthesis of manganese-zinc/oleylamine core/shell ferrite nanoparticles. Journal of Alloys and Compounds, 2017, 693, 1090-1095.	5.5	36
141	GelMa/PEGDA containing graphene oxide as an IPN hydrogel with superior mechanical performance. Materials Today: Proceedings, 2018, 5, 15790-15799.	1.8	36
142	Fabrication and Characterization of PLLA/Chitosan/Nano Calcium Phosphate Scaffolds by Freeze-Casting Technique. Industrial & Engineering Chemistry Research, 2012, 51, 9241-9249.	3.7	34
143	Self-assembly of PbS hollow sphere quantum dots via gasâ€“bubble technique for early cancer diagnosis. Journal of Luminescence, 2013, 133, 188-193.	3.1	34
144	A new prospect in magnetic nanoparticle-based cancer therapy: Taking credit from mathematical tissue-mimicking phantom brain models. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 2405-2414.	3.3	34

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145	Controlled NO-Release from 3D-Printed Small-Diameter Vascular Grafts Prevents Platelet Activation and Bacterial Infectivity. ACS Biomaterials Science and Engineering, 2019, 5, 2284-2296.	5.2	34
146	Decellularization and preservation of human skin: A platform for tissue engineering and reconstructive surgery. Methods, 2020, 171, 62-67.	3.8	34
147	4D bioprinting of tissues and organs. Bioprinting, 2021, 23, e00161.	5.8	34
148	A Proposed Fabrication Method of Novel PCL-GEL-HAp Nanocomposite Scaffolds for Bone Tissue Engineering Applications. Advanced Composites Letters, 2010, 19, 096369351001900.	1.3	33
149	Green synthesis and characterisation of spherical PbS luminescent microâ€•and nanoparticles via wet chemical technique. Advances in Applied Ceramics, 2011, 110, 30-34.	1.1	33
150	Antibacterial activity of silver photodeposited nepheline thin film coatings. Ceramics International, 2012, 38, 5445-5451.	4.8	33
151	Ionically Crosslinked Thermoresponsive Chitosan Hydrogels formed In Situ: A Conceptual Basis for Deeper Understanding. Macromolecular Materials and Engineering, 2017, 302, 1700227.	3.6	33
152	An innovative approach towards 3D-printed scaffolds for the next generation of tissue-engineered vascular grafts. Materials Today: Proceedings, 2018, 5, 15586-15594.	1.8	33
153	Copper-enriched diamond-like carbon coatings promote regeneration at the boneâ€“implant interface. Heliyon, 2020, 6, e03798.	3.2	33
154	Surface modification of poly(lactide-co-glycolide) nanoparticles by d-Î±-tocopheryl polyethylene glycol 1000 succinate as potential carrier for the delivery of drugs to the brain. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 392, 335-342.	4.7	32
155	Engineering the niche for hair regeneration â€" A critical review. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 15, 70-85.	3.3	32
156	Injectable Cell-Laden Hydrogels for Tissue Engineering: Recent Advances and Future Opportunities. Tissue Engineering - Part A, 2021, 27, 821-843.	3.1	32
157	Fabrication and characterization of electrospun poly- L -lactide/gelatin graded tubular scaffolds: Toward a new design for performance enhancement in vascular tissue engineering. Progress in Natural Science: Materials International, 2015, 25, 405-413.	4.4	31
158	Synthesis and characterisation of highly interconnected porous poly(Îµ-caprolactone)-collagen scaffolds: a therapeutic design to facilitate tendon regeneration. Materials Technology, 2018, 33, 29-37.	3.0	31
159	Boron-based polymers: opportunities and challenges. Materials Today Chemistry, 2019, 14, 100184.	3.5	31
160	Biodegradable Magnesium Biomaterialsâ€"Road to the Clinic. Bioengineering, 2022, 9, 107.	3.5	31
161	Green solvent-based solâ€“gel synthesis of monticellite nanoparticles: a rapid and efficient approach. Journal of Sol-Gel Science and Technology, 2017, 84, 87-95.	2.4	30
162	Preparation and characterization of curcuminâ€•loaded polymeric nanomicelles to interference with amyloidogenesis through glycation method. Biotechnology and Applied Biochemistry, 2019, 66, 537-544.	3.1	30

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163	COVIDâ€19: A systematic review and update on prevention, diagnosis, and treatment. MedComm, 2022, 3, e115.	7.2	30
164	Innovative surface modification of orthopaedic implants with positive effects on wettability and in vitro anti-corrosion performance. Surface Engineering, 2014, 30, 688-692.	2.2	29
165	Detection and qualification of optimum antibacterial and cytotoxic activities of silverâ€doped bioactive glasses. IET Nanobiotechnology, 2015, 9, 209-214.	3.8	29
166	Synergistic combination of bioactive glasses and polymers for enhanced bone tissue regeneration. Materials Today: Proceedings, 2018, 5, 15532-15539.	1.8	29
167	Functional PEO layers on magnesium alloys: innovative polymer-free drug-eluting stents. Surface Innovations, 2018, 6, 237-243.	2.3	29
168	Smart biomaterialsâ€"A proposed definition and overview of the field. Current Opinion in Biomedical Engineering, 2021, 19, 100311.	3.4	29
169	Advanced surface treatment techniques counteract biofilm-associated infections on dental implants. Materials Research Express, 2020, 7, 015417.	1.6	29
170	Polylysine for skin regeneration: A review of recent advances and future perspectives. Bioengineering and Translational Medicine, 2022, 7, e10261.	7.1	29
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