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List of Publications by Year
in descending order

84	3,752	33	60
papers	citations	h-index	g-index
		126708	128067

84	84	84	5180
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent trends in bioinks for 3D printing. Biomaterials Research, 2018, 22, 11.	3.2	585
2	Bone regeneration using hyaluronic acid-based hydrogel with bone morphogenic protein-2 and human mesenchymal stem cells. Biomaterials, 2007, 28, 1830-1837.	5.7	462
3	Selective laser sintering scaffold with hierarchical architecture and gradient composition for osteochondral repair in rabbits. Biomaterials, 2017, 137, 37-48.	5.7	246
4	3D printable hyaluronic acid-based hydrogel for its potential application as a bioink in tissue engineering. Biomaterials Research, 2019, 23, 3.	3.2	142
5	Comparative studies on thin polycaprolactone-tricalcium phosphate composite scaffolds and its interaction with mesenchymal stem cells. Biomaterials Research, 2019, 23, 1.	3.2	111
6	Click Chemistry-Based Injectable Hydrogels and Bioprinting Inks for Tissue Engineering Applications. Tissue Engineering and Regenerative Medicine, 2018, 15, 531-546.	1.6	101
7	A single fluorescent chemosensor for multiple target ions: Recognition of Zn2+ in 100% aqueous solution and Fâˆ’ in organic solvent. Sensors and Actuators B: Chemical, 2014, 195, 36-43.	4.0	96
8	Synthesis and characterization of matrix metalloprotease sensitive-low molecular weight hyaluronic acid based hydrogels. Journal of Materials Science: Materials in Medicine, 2008, 19, 3311-3318.	1.7	76
9	Characterization of lowâ€molecularâ€weight hyaluronic acidâ€based hydrogel and differential stem cell responses in the hydrogel microenvironments. Journal of Biomedical Materials Research - Part A, 2009, 88A, 967-975.	2.1	72
10	A dual chemosensor for Zn2+ and Co2+ in aqueous media and living cells: Experimental and theoretical studies. Sensors and Actuators B: Chemical, 2016, 223, 509-519.	4.0	68
11	A highly selective turn-on chemosensor capable of monitoring Zn2+ concentrations in living cells and aqueous solution. Sensors and Actuators B: Chemical, 2015, 215, 568-576.	4.0	65
12	A highly selective CHEF-type chemosensor for monitoring Zn²⁺ in aqueous solution and living cells. RSC Advances, 2015, 5, 41905-41913.	1.7	59
13	Recent trends in metal ion based hydrogel biomaterials for tissue engineering and other biomedical applications. Journal of Materials Science and Technology, 2021, 63, 35-53.	5.6	58
14	Surface modification of polytetrafluoroethylene using atmospheric pressure plasma jet for medical application. Surface and Coatings Technology, 2007, 201, 5097-5101.	2.2	57
15	Synthesis and characterization ofin situ chitosan-based hydrogel via grafting of carboxyethyl acrylate. Journal of Biomedical Materials Research - Part A, 2007, 83A, 674-682.	2.1	56
16	A water-soluble carboxylic-functionalized chemosensor for detecting Al3+ in aqueous media and living cells: Experimental and theoretical studies. Biosensors and Bioelectronics, 2015, 69, 226-229.	5.3	55
17	Research trends in biomimetic medical materials for tissue engineering: 3D bioprinting, surface modification, nano/micro-technology and clinical aspects in tissue engineering of cartilage and bone. Biomaterials Research, 2016, 20, 10.	3.2	54
18	A single chemosensor for multiple analytes: fluorogenic detection of Zn²⁺and OAc^{âˆ’}ions in aqueous solution, and an application to bioimaging. New Journal of Chemistry, 2014, 38, 2587-2594.	1.4	52

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19	Modulation of biomechanical properties of hyaluronic acid hydrogels by crosslinking agents. Journal of Biomedical Materials Research - Part A, 2015, 103, 3072-3080.	2.1	52
20	Effect of an Adipose-Derived Stem Cell and Nerve Growth Factor-Incorporated Hydrogel on Recovery of Erectile Function in a Rat Model of Cavernous Nerve Injury. Tissue Engineering - Part A, 2013, 19, 14-23.	1.6	49
21	A highly selective and sensitive fluorescent turn-on Al³⁺ chemosensor in aqueous media and living cells: experimental and theoretical studies. New Journal of Chemistry, 2016, 40, 171-178.	1.4	49
22	<i>In vitro</i> response of primary human bone marrow stromal cells to recombinant human bone morphogenic proteinâ€2 in the early and late stages of osteoblast differentiation. Development Growth and Differentiation, 2008, 50, 553-564.	0.6	48
23	A fluorescence sensor for Zn2+ that also acts as a visible sensor for Co2+ and Cu2+. Sensors and Actuators B: Chemical, 2015, 213, 268-275.	4.0	48
24	Selective zinc sensor based on pyrazoles and quinoline used to image cells. Dyes and Pigments, 2015, 113, 723-729.	2.0	47
25	Fabrication of alginate-based stimuli-responsive, non-cytotoxic, terpolymric semi-IPN hydrogel as a carrier for controlled release of bovine albumin serum and 5-amino salicylic acid. Materials Science and Engineering C, 2019, 98, 42-53.	3.8	47
26	A desktop multi-material 3D bio-printing system with open-source hardware and software. International Journal of Precision Engineering and Manufacturing, 2017, 18, 605-612.	1.1	45
27	Characterizations of hyaluronate-based terpolymeric hydrogel synthesized via free radical polymerization mechanism for biomedical applications. Colloids and Surfaces B: Biointerfaces, 2018, 170, 64-75.	2.5	45
28	3D printable and injectable lactoferrin-loaded carboxymethyl cellulose-glycol chitosan hydrogels for tissue engineering applications. Materials Science and Engineering C, 2020, 113, 111008.	3.8	45
29	Self-crosslinking hyaluronic acidâ€“carboxymethylcellulose hydrogel enhances multilayered 3D-printed construct shape integrity and mechanical stability for soft tissue engineering. Biofabrication, 2020, 12, 045026.	3.7	44
30	The effects of the molecular weights of hyaluronic acid on the immune responses. Biomaterials Research, 2021, 25, 27.	3.2	44
31	Bioink homogeneity control during 3D bioprinting of multicomponent micro/nanocomposite hydrogel for even tissue regeneration using novel twin screw extrusion system. Chemical Engineering Journal, 2021, 415, 128971.	6.6	42
32	Purification and biocompatibility of fermented hyaluronic acid for its applications to biomaterials. Biomaterials Research, 2014, 18, 6.	3.2	41
33	Surface modification of poly(tetrafluoroethylene)with benzophenone and sodium hydride by ultraviolet irradiation. Journal of Polymer Science Part A, 1997, 35, 1499-1514.	2.5	40
34	Simultaneous bioimaging recognition of cation Al3+ and anion Fâˆ’ by a fluorogenic method. Dyes and Pigments, 2016, 129, 43-53.	2.0	35
35	Effects of recombinant human bone morphogenic proteinâ€2 and human bone marrowâ€derived stromal cells on <i>in vivo</i> bone regeneration of chitosanâ€“poly(ethylene oxide) hydrogel. Journal of Biomedical Materials Research - Part A, 2013, 101A, 892-901.	2.1	34
36	Synthesis and Biocompatibility Characterizations of in Situ Chondroitin Sulfateâ€“Gelatin Hydrogel for Tissue Engineering. Tissue Engineering and Regenerative Medicine, 2018, 15, 25-35.	1.6	33

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37	Synthesis and characterizations of alginate- <i>Î±</i> -tricalcium phosphate microparticle hybrid film with flexibility and high mechanical property as a biomaterial. Biomedical Materials (Bristol), 2018, 13, 025008.	1.7	32
38	Synthesis and <i>in vitro</i> characterizations of porous carboxymethyl cellulose-poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	3.2	31
39	Effects of cross-linking molecular weights in a hyaluronic acidâ€“poly(ethylene oxide) hydrogel network on its properties. Biomedical Materials (Bristol), 2006, 1, 116-123.	1.7	30
40	Nano-biomaterials for designing functional bioinks towards complex tissue and organ regeneration in 3D bioprinting. Additive Manufacturing, 2021, 37, 101639.	1.7	29
41	A terpolymeric hydrogel of hyaluronate-hydroxyethyl acrylate-gelatin methacryloyl with tunable properties as biomaterial. Carbohydrate Polymers, 2019, 207, 628-639.	5.1	28
42	3D Printing of Bioinspired Alginateâ€Albumin Based Instant Gel Ink with Electroconductivity and Its Expansion to Direct Fourâ€Axis Printing of Hollow Porous Tubular Constructs without Supporting Materials. Advanced Functional Materials, 2021, 31, 2104441.	7.8	28
43	Synthesis of In situ chondroitin sulfate hydrogel through phosphine-mediated Michael type addition reaction. Macromolecular Research, 2012, 20, 968-976.	1.0	26
44	Photograft polymerization of acrylate monomers and macromonomers on photochemically reduced PTFE films. Journal of Polymer Science Part A, 1997, 35, 3467-3482.	2.5	24
45	Evaluation of MC3T3 Cells Proliferation and Drug Release Study from Sodium Hyaluronate-1,4-butanediol Diglycidyl Ether Patterned Gel. Nanomaterials, 2017, 7, 328.	1.9	23
46	Chemical modification and photograft polymerization upon expanded poly(tetrafluoroethylene). Journal of Biomaterials Science, Polymer Edition, 1998, 9, 407-426.	1.9	20
47	Symbiotic culture of nanocellulose pellicle: A potential matrix for 3D bioprinting. Materials Science and Engineering C, 2021, 119, 111552.	3.8	20
48	Synthesis and evaluation of hyaluronic acidâ€“poly(ethylene oxide) hydrogel via Michael-type addition reaction. Current Applied Physics, 2007, 7, e28-e32.	1.1	18
49	Bioactive Molecules Release and Cellular Responses of Alginate-Tricalcium Phosphate Particles Hybrid Gel. Nanomaterials, 2017, 7, 389.	1.9	18
50	Tissue Regeneration of Human Mesenchymal Stem Cells on Porous Gelatin Micro-Carriers by Long-Term Dynamic In Vitro Culture. Tissue Engineering and Regenerative Medicine, 2019, 16, 19-28.	1.6	18
51	Manufacturing of self-standing multi-layered 3D-bioprinted alginate-hyaluronate constructs by controlling the cross-linking mechanisms for tissue engineering applications. Biofabrication, 2022, 14, 035013.	3.7	18
52	A platform technique for growth factor delivery with novel mode of action. Biomaterials, 2014, 35, 9888-9896.	5.7	12
53	Effects of Molar Ratios of Two Immiscible Monomers toward Development of an Amphiphilic, Highly Stretchable, Bioadhesive, Self-Healing Copolymeric Hydrogel and its Mineral-Active Cellular Behavior. Biomacromolecules, 2020, 21, 892-902.	2.6	12
54	Overviews of Biomimetic Medical Materials. Advances in Experimental Medicine and Biology, 2018, 1064, 3-24.	0.8	11

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55	Surface modification of a polytetrafluoroethylene film with cyclotron ion beams and its evaluation. Surface and Coatings Technology, 2007, 201, 5724-5728.	2.2	10
56	Biological evaluation of micro-patterned hyaluronic acid hydrogel for bone tissue engineering. Pure and Applied Chemistry, 2014, 86, 1911-1922.	0.9	10
57	Micro/Nano Surface Topography and 3D Bioprinting of Biomaterials in Tissue Engineering. Journal of Nanoscience and Nanotechnology, 2016, 16, 8909-8922.	0.9	10
58	Analysis of chitosan irradiated with high-energy cyclotron ion beams. Journal of Physics and Chemistry of Solids, 2008, 69, 1569-1572.	1.9	9
59	Biocompatibility and resorption pattern of newly developed hyaluronic acid hydrogel reinforced three-layer poly (lactide-co-glycolide) membrane: histologic observation in rabbit calvarial defect model. Biomaterials Research, 2014, 18, 12.	3.2	9
60	Three-Dimensional Printed Design of Antibiotic-Releasing Esophageal Patches for Antimicrobial Activity Prevention. Tissue Engineering - Part A, 2021, 27, 1490-1502.	1.6	9
61	Diffusion of bioactive molecules through the walls of the medial tissue-engineered hybrid ePTFE grafts for applications in designs of vascular tissue regeneration. Journal of Biomedical Materials Research - Part A, 2006, 79A, 943-953.	2.1	8
62	Media tissue regeneration of the hybrid expanded polytetrafluoroethylene vascular graft via gelatin coating. Current Applied Physics, 2005, 5, 463-467.	1.1	7
63	Control of chitosan molecular weight with cyclotron ion beam irradiation. Journal of Physics and Chemistry of Solids, 2008, 69, 1577-1580.	1.9	7
64	Development and physicochemical evaluation of chondroitin sulfate-poly(ethylene oxide) hydrogel. Macromolecular Research, 2011, 19, 147-155.	1.0	7
65	Effect of cross-linking spacers on biocompatibility of chitosan-spacer-poly(ethylene oxide) hydrogel. Macromolecular Research, 2011, 19, 573-581.	1.0	7
66	Evaluations of nerve cell compatibility of self cross-linking chitosan-poly(ethylene oxide) hydrogel. Tissue Engineering and Regenerative Medicine, 2012, 9, 84-91.	1.6	7
67	Research trends in biomimetic medical materials for tissue engineering: commentary. Biomaterials Research, 2016, 20, 8.	3.2	7
68	Physicochemical properties of chitosan-poly(ethylene oxide) hydrogel modified through linoleic acid. Macromolecular Research, 2011, 19, 396-402.	1.0	6
69	Mechanism of albumin release from alginate and chitosan beads fabricated in dual layers. Macromolecular Research, 2011, 19, 476-482.	1.0	6
70	Preparation and characterization of calcium phosphate cement of Î±-tricalcium phosphate-tetracalcium phosphate-dicalcium phosphate system incorporated with poly(Î³-glutamic acid). Macromolecular Research, 2013, 21, 892-898.	1.0	6
71	Modification of Expanded Polytetrafluoroethylene Surface with Low-Energy Nitrogen-Ion-Beam Irradiation. Journal of the Korean Physical Society, 2007, 50, 1579.	0.3	5
72	Induction and biological evaluations of self cross-linking chondroitin sulfate-poly(ethylene oxide) hydrogel. Macromolecular Research, 2011, 19, 1303-1309.	1.0	4

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73	Major Clues and Pitfalls in the Differential Diagnosis of Parathyroid and Thyroid Lesions Using Fine Needle Aspiration Cytology. Medicina (Lithuania), 2020, 56, 558.	0.8	4
74	Evaluation of the Hemodynamics of a Tissueâ€engineered Hybrid Graft. Artificial Organs, 2010, 34, E17-21.	1.0	3
75	Inhibition of biofilm formation on ventilation tubes by surface modification. In Vivo, 2012, 26, 907-11.	0.6	3
76	Frontiers in regenerative medical materials: Comments from the participants of the 2014 China-Korea Symposium on Biomimetic and Regenerative Medical Materials. International Journal of Energy Production and Management, 2015, 2, 71-76.	1.9	2
77	Controlled release of paclitaxel using a drugâ€eluting stent through modulation of the size of drug particles <i>in vivo</i>. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2275-2283.	1.6	2
78	Cellular behaviors on the chitosan-coated porous poly(lactide-co-glycolide) hybrid scaffolds modified by ion beams. Surface and Coatings Technology, 2010, 205, S398-S404.	2.2	1
79	Changes in RBC deformability and oxygen-delivering ability in cold blood cardioplegia. Clinical Hemorheology and Microcirculation, 2011, 48, 223-229.	0.9	1
80	Tissue regeneration in the pores of poly(lactide-co-glycolide)-impregnated wall of expanded polytetrafluoroethylene (ePTFE) hybrid grafts. Tissue Engineering and Regenerative Medicine, 2014, 11, 323-332.	1.6	1
81	Biological characterizations of hyaluronic acid hydrogel particles. , 2011, , .		0
82	Physicochemical and biological characterization of hyaluronic acid-poly(ethylene oxide) hydrogel. , 2011, , .		0
83	The Korean Society for Biomaterials joins forces with BioMed Central. Biomaterials Research, 2014, 18, 4.	3.2	0
84	Current Status of Development and Intellectual Properties of Biomimetic Medical Materials. Advances in Experimental Medicine and Biology, 2018, 1064, 377-399.	0.8	0