

# Hossein Ghanbari

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

2,996  
citations

201575

27  
h-index

168321

53  
g-index

83  
all docs

83  
docs citations

83  
times ranked

4011  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid PCL/chitosan-PEO nanofibrous scaffolds incorporated with A. euchroma extract for skin tissue engineering application. Carbohydrate Polymers, 2022, 278, 118926.	5.1	53
2	Biocompatibility study of P (N-isopropylacrylamide)-based nanocomposite and its cytotoxic effect on HeLa cells as a drug delivery system for Cisplatin. Journal of Drug Delivery Science and Technology, 2022, , 103254.	1.4	0
3	Synergy of titanium dioxide nanotubes and polyurethane properties for bypass graft application: Excellent flexibility and biocompatibility. Materials and Design, 2022, 215, 110523.	3.3	5
4	Improvement of sciatic nerve regeneration by multichannel nanofibrous membrane-embedded electro-conductive conduits functionalized with laminin. Journal of Materials Science: Materials in Medicine, 2022, 33, .	1.7	7
5	Micro/nanoscale surface engineering to enhance hemocompatibility and reduce bacterial adhesion for cardiovascular implants. Materials Chemistry and Physics, 2022, 289, 126445.	2.0	5
6	Synthesis of segmented polyurethanes containing different oligo segments: Experimental and computational approach. Progress in Organic Coatings, 2021, 150, 105965.	1.9	7
7	Cell attachment effects of collagen nanoparticles on crosslinked electrospun nanofibers. International Journal of Artificial Organs, 2021, 44, 199-207.	0.7	12
8	Fabrication and characterization of chitosan/kefiran electrospun nanofibers for tissue engineering applications. Journal of Applied Polymer Science, 2021, 138, 50547.	1.3	21
9	Bismuth oxide nanoparticles as agents of radiation dose enhancement in intraoperative radiotherapy. Medical Physics, 2021, 48, 1417-1426.	1.6	13
10	Dosimetric effect of nanoparticles in the breast cancer treatment using INTRABEAM <sup>®</sup> system with spherical applicators in the presence of tissue heterogeneities: A Monte Carlo study. Biomedical Physics and Engineering Express, 2021, 7, 035017.	0.6	1
11	Preparation and characterization of polyurethane/chitosan/CNT nanofibrous scaffold for cardiac tissue engineering. International Journal of Biological Macromolecules, 2021, 180, 590-598.	3.6	71
12	Effect of Paclitaxel/etoposide co-loaded polymeric nanoparticles on tumor size and survival rate in a rat model of glioblastoma. International Journal of Pharmaceutics, 2021, 604, 120722.	2.6	24
13	Assessment of structural, biological and drug release properties of electro-sprayed poly lactic acid-dexamethasone coating for biomedical applications. Biomedical Engineering Letters, 2021, 11, 393-406.	2.1	5
14	Macrophage reprogramming into a pro-healing phenotype by siRNA delivered with LBL assembled nanocomplexes for wound healing applications. Nanoscale, 2021, 13, 15445-15463.	2.8	15
15	The effect of surface modification of poly(L-lactide-co-D,L-glycolide)/carbon nanotube nanofibrous scaffolds by laminin protein on nerve tissue engineering. Journal of Biomedical Materials Research - Part A, 2021, 109, 159-169.	2.1	30
16	Exosome loaded alginate hydrogel promotes tissue regeneration in full-thickness skin wounds: An in vivo study. Journal of Biomedical Materials Research - Part A, 2020, 108, 545-556.	2.1	171
17	Resveratrol-loaded polyurethane nanofibrous scaffold: viability of endothelial and smooth muscle cells. Biomedical Materials (Bristol), 2020, 15, 015001.	1.7	22
18	Predicting the effect of phototherapy method on breast cancer cells by mathematical modeling: UV-IR non-ionization radiation with gold nanoparticles. Nanotoxicology, 2020, 14, 1127-1136.	1.6	1

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19	Development of poly (mannitol sebacate)/poly (lactic acid) nanofibrous scaffolds with potential applications in tissue engineering. <i>Materials Science and Engineering C</i> , 2020, 110, 110626.	3.8	26
20	A novel electrochemical immunosensor for ultrasensitive detection of CA125 in ovarian cancer. <i>Biosensors and Bioelectronics</i> , 2020, 153, 112029.	5.3	81
21	Self-assembly of a patterned hydrophobic-hydrophilic surface by soft segment microphase separation in a segmented polyurethane: Combined experimental study and molecular dynamics simulation. <i>Polymer</i> , 2020, 195, 122424.	1.8	21
22	Cross-linked PMS/PLA nanofibers with tunable mechanical properties and degradation rate for biomedical applications. <i>European Polymer Journal</i> , 2020, 130, 109633.	2.6	8
23	In situ synthesized TiO <sub>2</sub> -polyurethane nanocomposite for bypass graft application: In vitro endothelialization and degradation. <i>Materials Science and Engineering C</i> , 2020, 114, 111043.	3.8	6
24	Development of electrically conductive hybrid nanofibers based on CNT/polyurethane nanocomposite for cardiac tissue engineering. <i>Microscopy Research and Technique</i> , 2019, 82, 1316-1325.	1.2	77
25	Bioinspired immobilization of carbon nanotubes on scaffolds for nerve regeneration. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2019, 8, 198-205.	0.7	6
26	Nanofiber-acellular dermal matrix as a bilayer scaffold containing mesenchymal stem cell for healing of full-thickness skin wounds. <i>Cell and Tissue Research</i> , 2019, 375, 709-721.	1.5	32
27	A novel polyurethane modified with biomacromolecules for small-diameter vascular graft applications. <i>Journal of Materials Science</i> , 2018, 53, 9913-9927.	1.7	37
28	Heart valve tissue engineering: an overview of heart valve decellularization processes. <i>Regenerative Medicine</i> , 2018, 13, 41-54.	0.8	36
29	<i>In vitro</i> physical and biological characterization of biodegradable elastic polyurethane containing ferulic acid for small-caliber vascular grafts. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 035007.	1.7	24
30	Comparative study of different polymeric coatings for the next-generation magnesium-based biodegradable stents. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 1380-1389.	1.9	11
31	Will Nanotechnology Bring New Hope for Stem Cell Therapy?. <i>Cells Tissues Organs</i> , 2018, 206, 229-241.	1.3	14
32	Novel electro-conductive nanocomposites based on electrospun PLGA/CNT for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 168.	1.7	24
33	Polyurethane-Polycaprolactone Blend Patches: Scaffold Characterization and Cardiomyoblast Adhesion, Proliferation, and Function. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 4299-4310.	2.6	60
34	The effects of cross-linked/uncross-linked electrospun fibrinogen/polycaprolactone nanofibers on the proliferation of normal human epidermal keratinocytes. <i>Journal of Polymer Engineering</i> , 2018, 38, 945-953.	0.6	4
35	Electrochemical immunosensor based on chitosan-gold nanoparticle/carbon nanotube as a platform and lactate oxidase as a label for detection of CA125 oncomarker. <i>Biosensors and Bioelectronics</i> , 2018, 122, 68-74.	5.3	144
36	Reinforcing Mechanical Strength of Electrospun Chitosan Nanofibrous Scaffold Using Cellulose Nanofibers. <i>Journal of Nano Research</i> , 2018, 52, 71-79.	0.8	3

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37	Differentiation of human endometrial stem cells into endothelial-like cells on gelatin/chitosan/bioglass nanofibrous scaffolds. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2017, 45, 163-173.	1.9	38
38	Biocompatibility and nanostructured materials: applications in nanomedicine. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2017, 45, 833-842.	1.9	155
39	Recent advances in simultaneous electrochemical multi-analyte sensing platforms. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 92, 32-41.	5.8	65
40	A combined method for producing high strength and ductility magnesium microtubes for biodegradable vascular stents application. <i>Journal of Alloys and Compounds</i> , 2017, 723, 467-476.	2.8	46
41	Biomimetic modification of polyurethane-based nanofibrous vascular grafts: A promising approach towards stable endothelial lining. <i>Materials Science and Engineering C</i> , 2017, 80, 213-221.	3.8	70
42	Fluorescent multi-responsive cross-linked P(N-isopropylacrylamide)-based nanocomposites for cisplatin delivery. <i>Drug Development and Industrial Pharmacy</i> , 2017, 43, 1283-1291.	0.9	22
43	The potential therapeutic effect of melatonin on human ovarian cancer by inhibition of invasion and migration of cancer stem cells. <i>Scientific Reports</i> , 2017, 7, 17062.	1.6	87
44	Novel heart valve prosthesis with self-endothelialization potential made of modified polyhedral oligomeric silsesquioxane-nanocomposite material. <i>Biointerphases</i> , 2016, 11, 029801.	0.6	16
45	Electrospun PLLA nanofiber scaffolds for bladder smooth muscle reconstruction. <i>International Urology and Nephrology</i> , 2016, 48, 1097-1104.	0.6	27
46	Development of novel biocompatible hybrid nanocomposites based on polyurethane-silica prepared by sol gel process. <i>Materials Science and Engineering C</i> , 2016, 69, 1248-1255.	3.8	33
47	Synthesis and characterization of polyhedral oligomeric titanized silsesquioxane: A new biocompatible cage like molecule for biomedical application. <i>Materials Science and Engineering C</i> , 2016, 61, 293-300.	3.8	25
48	Inducible expression of indoleamine 2,3-dioxygenase attenuates acute rejection of tissue-engineered lung allografts in rats. <i>Gene</i> , 2016, 576, 412-420.	1.0	11
49	The Differentiation of Human Endometrial Stem Cells into Neuron-Like Cells on Electrospun PAN-Derived Carbon Nanofibers with Random and Aligned Topographies. <i>Molecular Neurobiology</i> , 2016, 53, 4798-4808.	1.9	52
50	Correlation of Signal Intensity and ICP/OES-Related Concentration of Gadolinium-based Nanomagnetic Particles in Molecular MRI: In Vitro Study. <i>Applied Magnetic Resonance</i> , 2016, 47, 77-86.	0.6	3
51	Physically Blended and Chemically Modified Polyurethane Hybrid Nanocoatings Using Polyhedral Oligomeric Silsesquioxane Nano Building Blocks: Surface Studies and Biocompatibility Evaluations. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015, 25, 1305-1312.	1.9	24
52	Optimization of Self-Assembled Chitosan/Streptokinase Nanoparticles and Evaluation of Their Cytotoxicity and Thrombolytic Activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 10127-10133.	0.9	17
53	Detailed mechanism of aniline nucleation into more conductive nanofibers. <i>Synthetic Metals</i> , 2015, 209, 91-98.	2.1	12
54	Functionalization of PAN-Based Electrospun Carbon Nanofibers by Acid Oxidation: Study of Structural,Electrical and Mechanical Properties. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 930-937.	1.0	20

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55	Preparation of Pure PLLA, Pure Chitosan, and PLLA/Chitosan Blend Porous Tissue Engineering Scaffolds by Thermally Induced Phase Separation Method and Evaluation of the Corresponding Mechanical and Biological Properties. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2015, 64, 675-682.	1.8	41
56	Computational fluorescence ghost imaging. <i>European Physical Journal D</i> , 2013, 67, 1.	0.6	18
57	Optical properties of layered organic-inorganic perovskite (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> PbBr <sub>4</sub> , 2013, .		0
58	A New Generation of Aortic Valve Prosthesis: Design, Manufacture and Hydrodynamic Assessment. , 2012, .		0
59	Manufacturing and hydrodynamic assessment of a novel aortic valve made of a new nanocomposite polymer. <i>Journal of Biomechanics</i> , 2012, 45, 1205-1211.	0.9	85
60	Substrate engineering for Ni-assisted growth of carbon nano-tubes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 1542-1546.	1.7	15
61	Tissue Engineered Heart Valve: Future of Cardiac Surgery. <i>World Journal of Surgery</i> , 2012, 36, 1581-1591.	0.8	77
62	Biomedical Application of Polyhedral Oligomeric Silsesquioxane Nanoparticles. <i>Advances in Silicon Science</i> , 2011, , 363-399.	0.6	9
63	Cardiovascular application of polyhedral oligomeric silsesquioxane nanomaterials: a glimpse into prospective horizons. <i>International Journal of Nanomedicine</i> , 2011, 6, 775.	3.3	66
64	Fantastic Improvement in Quality and Quantity of Carbon Nanotubes Synthesized on Al <sub>2</sub> O <sub>3</sub> SiO <sub>2</sub> Supports by N <sub>2</sub> Pretreatment. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 8835-8843.	0.9	2
65	Small calibre polyhedral oligomeric silsesquioxane nanocomposite cardiovascular grafts: Influence of porosity on the structure, haemocompatibility and mechanical properties. <i>Acta Biomaterialia</i> , 2011, 7, 3857-3867.	4.1	86
66	A Nanocage for Nanomedicine: Polyhedral Oligomeric Silsesquioxane (POSS). <i>Macromolecular Rapid Communications</i> , 2011, 32, 1032-1046.	2.0	246
67	The anti-calcification potential of a silsesquioxane nanocomposite polymer under in vitro conditions: Potential material for synthetic leaflet heart valve. <i>Acta Biomaterialia</i> , 2010, 6, 4249-4260.	4.1	90
68	Even/Odd Mode Resonance Frequency of Microstrip Ring Resonator with Proximity and Direct In-Plane Coupling by Partial Positional Dielectric Strip Overlay Perturbation. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 081405.	0.8	1
69	Polymeric heart valves: new materials, emerging hopes. <i>Trends in Biotechnology</i> , 2009, 27, 359-367.	4.9	194
70	A novel nanocomposite polymer for development of synthetic heart valve leaflets. <i>Acta Biomaterialia</i> , 2009, 5, 2409-2417.	4.1	148
71	Even/odd mode resonance frequency of electromagnetically coupled microstrip ring resonator with flexible positional overlay of dielectric strips. <i>Microwave and Optical Technology Letters</i> , 2008, 50, 1931-1934.	0.9	2
72	Percutaneous Heart Valve Replacement: An Update. <i>Trends in Cardiovascular Medicine</i> , 2008, 18, 117-125.	2.3	15

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73	Direct Determination of X-Band Permittivity of Dielectrics by Partial Overlay on Electromagnetically Coupled Microstrip Ring Resonator. Japanese Journal of Applied Physics, 2007, 46, 3676-3680.	0.8	4
74	Sexual Risk-Taking Behaviors among Boys Aged 15â€“18 Years in Tehran. Journal of Adolescent Health, 2007, 41, 407-414.	1.2	66
75	Electromagnetically coupled microstrip square/circular ring resonators: Inset/offset feed variation effects on resonance frequency. Microwave and Optical Technology Letters, 2007, 49, 2118-2121.	0.9	2
76	Synthesis of carbon nanotubes on alumina-based supports with different gas flow rates by CCVD method. Journal of Physics: Conference Series, 2006, 26, 135-138.	0.3	12
77	Synthesis and characterization of nm-sized PbTiO <sub>3</sub> crystallites. Journal of Materials Science: Materials in Electronics, 2006, 17, 361-365.	1.1	0
78	Electromagnetically coupled microstrip square ring resonator: Inset/offset feed variation effects on resonance frequency. Microwave and Optical Technology Letters, 2006, 48, 1922-1924.	0.9	5
79	Artificial Neural Networks Modeling of Electrospun Polyurethane Nanofibers from Chloroform/Methanol Solution. Journal of Nano Research, 0, 41, 18-30.	0.8	8
80	Enhanced hemocompatibility of a PEGilated polycarbonate based segmented polyurethane. International Journal of Polymeric Materials and Polymeric Biomaterials, 0, , 1-9.	1.8	4