

# Marjan Bahraminasab

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,458  
citations

471371

17  
h-index

377752

34  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1162  
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive VIKOR method for material selection. <i>Materials &amp; Design</i> , 2011, 32, 1215-1221.	5.1	249
2	A framework for weighting of criteria in ranking stage of material selection process. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 58, 411-420.	1.5	189
3	Material selection for femoral component of total knee replacement using comprehensive VIKOR. <i>Materials &amp; Design</i> , 2011, 32, 4471-4477.	5.1	130
4	Challenges on optimization of 3D-printed bone scaffolds. <i>BioMedical Engineering OnLine</i> , 2020, 19, 69.	1.3	117
5	A target-based normalization technique for materials selection. <i>Materials &amp; Design</i> , 2012, 35, 647-654.	5.1	101
6	Aseptic loosening of femoral components – Materials engineering and design considerations. <i>Materials &amp; Design</i> , 2013, 44, 155-163.	5.1	81
7	Aseptic loosening of femoral components – A review of current and future trends in materials used. <i>Materials &amp; Design</i> , 2012, 42, 459-470.	5.1	74
8	Multi-objective design optimization of functionally graded material for the femoral component of a total knee replacement. <i>Materials &amp; Design</i> , 2014, 53, 159-173.	5.1	56
9	Al <sub>2</sub> O <sub>3</sub> -Ti functionally graded material prepared by spark plasma sintering for orthopaedic applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 72, 82-89.	1.5	53
10	Bone Scaffolds: An Incorporation of Biomaterials, Cells, and Biofactors. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 5397-5431.	2.6	41
11	Material tailoring of the femoral component in a total knee replacement to reduce the problem of aseptic loosening. <i>Materials &amp; Design</i> , 2013, 52, 441-451.	5.1	40
12	Mechanobiological assessment of Ti-6Al-4V fabricated via selective laser melting technique: a review. <i>Rapid Prototyping Journal</i> , 2019, 25, 1266-1284.	1.6	36
13	On the influence of shape and material used for the femoral component pegs in knee prostheses for reducing the problem of aseptic loosening. <i>Materials &amp; Design</i> , 2014, 55, 416-428.	5.1	30
14	On the machinability and properties of Ti-6Al-4V biomaterial with n-HAp powder – mixed ED machining. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020, 234, 232-242.	1.0	30
15	State of the art review on design and manufacture of hybrid biomedical materials: Hip and knee prostheses. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 785-813.	1.0	28
16	Electrochemical corrosion of Ti-Al <sub>2</sub> O <sub>3</sub> biocomposites in Ringer's solution. <i>Journal of Alloys and Compounds</i> , 2019, 777, 34-43.	2.8	24
17	Corrosion of Al <sub>2</sub> O <sub>3</sub> -Ti composites under inflammatory condition in simulated physiological solution. <i>Materials Science and Engineering C</i> , 2019, 102, 200-211.	3.8	23
18	Cubic Lattice Structures of Ti6Al4V under Compressive Loading: Towards Assessing the Performance for Hard Tissue Implants Alternative. <i>Materials</i> , 2021, 14, 3866.	1.3	14

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19	Multicriteria Decision Analysis in Improving Quality of Design in Femoral Component of Knee Prostheses: Influence of Interface Geometry and Material. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-16.	1.0	12
20	Multi-criteria decision-making for materials selection. , 2016, , 63-80.		10
21	Preliminary evaluations on development of new materials for hip joint femoral head. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019, 233, 885-899.	0.7	10
22	Using Design of Experiments Methods for Assessing Peak Contact Pressure to Material Properties of Soft Tissue in Human Knee. <i>Journal of Medical Engineering</i> , 2013, 2013, 1-11.	1.1	9
23	NiTi Shape Memory Alloys, Promising Materials in Orthopedic Applications. , 0, , .		9
24	Biocompatibility evaluation and corrosion resistance of tungsten added Co-30Cr-4Mo-1Ni alloy. <i>Bio-Medical Materials and Engineering</i> , 2017, 28, 687-701.	0.4	9
25	Biocomposites for Hard Tissue Replacement and Repair. <i>Materials Horizons</i> , 2018, , 281-296.	0.3	9
26	Effect of Molybdenum Content on Structure and Properties of a Co-Cr Biomedical Alloy. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 6340-6353.	1.2	9
27	In vivo performance of Al <sub>2</sub> O <sub>3</sub> -Ti bone implants in the rat femur. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 79.	0.9	9
28	Adaptation of MC3T3 cell line to Dulbecco's Modified Eagle's medium. <i>Tissue and Cell</i> , 2020, 64, 101341.	1.0	8
29	Low-cost synthesis of nano-hydroxyapatite from carp bone waste: Effect of calcination time and temperature. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 573-582.	1.1	8
30	Chemopreventive effect of spirulina microalgae on an animal model of glioblastoma via down-regulation of PI3K/AKT/mTOR and up-regulation of miR-34a/miR-125B expression. <i>Phytotherapy Research</i> , 2021, 35, 6452-6461.	2.8	7
31	Multiple objective decision-making for material and geometry design. , 2016, , 127-146.		6
32	The healing of bone defects by cell-free and stem cell-seeded 3D-printed PLA tissue-engineered scaffolds. <i>Journal of Orthopaedic Surgery and Research</i> , 2022, 17, .	0.9	6
33	Computational Tailoring of Orthopaedic Biomaterials: Design Principles and Aiding Tools. <i>Materials Horizons</i> , 2019, , 15-31.	0.3	5
34	On the manufacture of a porous alumina-titanium biocomposite by spark plasma sintering. <i>Materials Chemistry and Physics</i> , 2022, 280, 125831.	2.0	4
35	The importance of decision support in materials selection. , 2016, , 1-23.		3
36	Multi-attribute decision-making for ranking of candidate materials. , 2016, , 81-126.		2

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37	Photobiomodulation Therapy Affects the Elastic Modulus, Cytoskeletal Rearrangement and Migration Capability of Human Osteosarcoma Cells. <i>Lasers in Medical Science</i> , 2022, 37, 2855-2863.	1.0	2
38	Osteoblastic cell response to Al <sub>2</sub> O <sub>3</sub> -Ti composites as bone implant materials. <i>Biolmpacts</i> , 2021, , .	0.7	1
39	Bond strength and microleakage of different types of cements in stainless steel crown of primary molar teeth. <i>Dental Research Journal</i> , 2021, 18, 58.	0.2	1
40	Cytotoxicity and Ion Release of Functionally Graded Al <sub>2</sub> O <sub>3</sub> -Ti Orthopedic Biomaterial. <i>Journal of Biomimetics, Biomaterials and Biomedical Engineering</i> , 0, 54, 103-118.	0.5	1
41	Multicriteria Decision Analysis in Material Design, Selection, and Manufacturing. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-2.	1.0	0
42	Case studies of materials selection and design. , 2016, , 147-225.		0