

# Saber Amin Yavari

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

4,160  
citations

147566

31  
h-index

264894

42  
g-index

45  
all docs

45  
docs citations

45  
times ranked

3982  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties of open-cell metallic biomaterials manufactured using additive manufacturing. <i>Materials &amp; Design</i> , 2013, 49, 957-965.	5.1	346
2	Mechanical behavior of regular open-cell porous biomaterials made of diamond lattice unit cells. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 34, 106-115.	1.5	340
3	Relationship between unit cell type and porosity and the fatigue behavior of selective laser melted meta-biomaterials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 43, 91-100.	1.5	316
4	Additively manufactured porous tantalum implants. <i>Acta Biomaterialia</i> , 2015, 14, 217-225.	4.1	309
5	Additively Manufactured Open-Cell Porous Biomaterials Made from Six Different Space-Filling Unit Cells: The Mechanical and Morphological Properties. <i>Materials</i> , 2015, 8, 1871-1896.	1.3	285
6	Fatigue behavior of porous biomaterials manufactured using selective laser melting. <i>Materials Science and Engineering C</i> , 2013, 33, 4849-4858.	3.8	275
7	Bone regeneration performance of surface-treated porous titanium. <i>Biomaterials</i> , 2014, 35, 6172-6181.	5.7	257
8	Selective laser melting-produced porous titanium scaffolds regenerate bone in critical size cortical bone defects. <i>Journal of Orthopaedic Research</i> , 2013, 31, 792-799.	1.2	225
9	Antibacterial and immunogenic behavior of silver coatings on additively manufactured porous titanium. <i>Acta Biomaterialia</i> , 2018, 81, 315-327.	4.1	130
10	Revival of pure titanium for dynamically loaded porous implants using additive manufacturing. <i>Materials Science and Engineering C</i> , 2015, 54, 94-100.	3.8	126
11	Antibacterial Behavior of Additively Manufactured Porous Titanium with Nanotubular Surfaces Releasing Silver Ions. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 17080-17089.	4.0	125
12	Combating Implant Infections: Shifting Focus from Bacteria to Host. <i>Advanced Materials</i> , 2020, 32, e2002962.	11.1	119
13	Effects of bio-functionalizing surface treatments on the mechanical behavior of open porous titanium biomaterials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 36, 109-119.	1.5	101
14	Enhanced Bone Regeneration of Cortical Segmental Bone Defects Using Porous Titanium Scaffolds Incorporated with Colloidal Gelatin Gels for Time- and Dose-Controlled Delivery of Dual Growth Factors. <i>Tissue Engineering - Part A</i> , 2013, 19, 2605-2614.	1.6	89
15	Simultaneous Delivery of Multiple Antibacterial Agents from Additively Manufactured Porous Biomaterials to Fully Eradicate Planktonic and Adherent <i>Staphylococcus aureus</i> . <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 25691-25699.	4.0	82
16	Additively Manufactured and Surface Biofunctionalized Porous Nitinol. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 1293-1304.	4.0	78
17	Crystal structure and nanotopographical features on the surface of heat-treated and anodized porous titanium biomaterials produced using selective laser melting. <i>Applied Surface Science</i> , 2014, 290, 287-294.	3.1	72
18	Full regeneration of segmental bone defects using porous titanium implants loaded with BMP-2 containing fibrin gels. , 2015, 29, 141-154.		71

#	ARTICLE	IF	CITATIONS
19	Experimental validation of finite element model for proximal composite femur using optical measurements. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 21, 86-94.	1.5	69
20	Electrophoretic deposition: a versatile tool against biomaterial associated infections. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1128-1148.	2.9	59
21	Bactericidal coating to prevent early and delayed implant-related infections. <i>Journal of Controlled Release</i> , 2020, 326, 38-52.	4.8	54
22	Biofunctional surfaces by plasma electrolytic oxidation on titanium biomedical alloys. <i>Surface Engineering</i> , 2016, 32, 411-417.	1.1	45
23	Effects of anodizing parameters and heat treatment on nanotopographical features, bioactivity, and cell culture response of additively manufactured porous titanium. <i>Materials Science and Engineering C</i> , 2015, 51, 132-138.	3.8	43
24	Direct covalent attachment of silver nanoparticles on radical-rich plasma polymer films for antibacterial applications. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5845-5853.	2.9	40
25	Fatigue crack propagation in additively manufactured porous biomaterials. <i>Materials Science and Engineering C</i> , 2017, 76, 457-463.	3.8	38
26	Repeatability of digital image correlation for measurement of surface strains in composite long bones. <i>Journal of Biomechanics</i> , 2013, 46, 1928-1932.	0.9	37
27	Full-Field Strain Measurement During Mechanical Testing of the Human Femur at Physiologically Relevant Strain Rates. <i>Journal of Biomechanical Engineering</i> , 2014, 136, .	0.6	37
28	Radical-functionalized plasma polymers: Stable biomimetic interfaces for bone implant applications. <i>Applied Materials Today</i> , 2019, 16, 456-473.	2.3	37
29	Layer by layer coating for bio-functionalization of additively manufactured meta-biomaterials. <i>Additive Manufacturing</i> , 2020, 32, 100991.	1.7	36
30	<i>In-silico</i> quest for bactericidal but non-cytotoxic nanopatterns. <i>Nanotechnology</i> , 2018, 29, 43LT02.	1.3	35
31	A multifaceted biomimetic interface to improve the longevity of orthopedic implants. <i>Acta Biomaterialia</i> , 2020, 110, 266-279.	4.1	34
32	Osteostatin-Coated Porous Titanium Can Improve Early Bone Regeneration of Cortical Bone Defects in Rats. <i>Tissue Engineering - Part A</i> , 2015, 21, 1495-1506.	1.6	32
33	Mechanical analysis of a rodent segmental bone defect model: The effects of internal fixation and implant stiffness on load transfer. <i>Journal of Biomechanics</i> , 2014, 47, 2700-2708.	0.9	30
34	Effect of Alkali-Acid-Heat Chemical Surface Treatment on Electron Beam Melted Porous Titanium and Its Apatite Forming Ability. <i>Materials</i> , 2015, 8, 1612-1625.	1.3	30
35	Fatigue and quasi-static mechanical behavior of bio-degradable porous biomaterials based on magnesium alloys. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1798-1811.	2.1	26
36	Full-field strain measurement and fracture analysis of rat femora in compression test. <i>Journal of Biomechanics</i> , 2013, 46, 1282-1292.	0.9	24

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37	Toward Antibacterial Coatings for Personalized Implants. ACS Biomaterials Science and Engineering, 2020, 6, 5486-5492.	2.6	24
38	Controlled temperature-mediated curcumin release from magneto-thermal nanocarriers to kill bone tumors. Bioactive Materials, 2022, 11, 107-117.	8.6	24
39	Incorporation of F-MWCNTs into electrospun nanofibers regulates osteogenesis through stiffness and nanotopography. Materials Science and Engineering C, 2020, 106, 110163.	3.8	21
40	A multifunctional silk coating on additively manufactured porous titanium to prevent implant-associated infection and stimulate bone regeneration. Biomedical Materials (Bristol), 2020, 15, 065016.	1.7	20
41	Bone Regeneration in Critical-Sized Bone Defects Treated with Additively Manufactured Porous Metallic Biomaterials: The Effects of Inelastic Mechanical Properties. Materials, 2020, 13, 1992.	1.3	14
42	Data on a rat infection model to assess porous titanium implant coatings. Data in Brief, 2018, 21, 1642-1648.	0.5	4
43	MEASUREMENT OF SURFACE STRAIN DISTRIBUTION IN COMPOSITE FEMORA USING DIGITAL IMAGE CORRELATION. Journal of Biomechanics, 2012, 45, S540.	0.9	1