Hakan Engqvist

List of Publications by Citations

186 papers	3,193 citations	32 h-index	44 g-index
194 ext. papers	3,759 ext. citations	4.8 avg, IF	5.51 L-index

#	Paper	IF	Citations
186	Characterization and comparison of materials produced by Electron Beam Melting (EBM) of two different Ti6Al4V powder fractions. *Journal of Materials Processing Technology*, **2013**, 213, 2109-2118	5.3	170
185	Formation and adhesion of biomimetic hydroxyapatite deposited on titanium substrates. *Acta Biomaterialia*, **2007**, 3, 980-4	10.8	108
184	Multifunctional implant coatings providing possibilities for fast antibiotics loading with subsequent slow release. *Journal of Materials Science: Materials in Medicine*, **2009**, 20, 1859-67	4.5	75
183	Biomineralized strontium-substituted apatite/titanium dioxide coating on titanium surfaces. *Acta Biomaterialia*, **2010**, 6, 1591-600	10.8	71
182	Characterization of the surface properties of commercially available dental implants using scanning electron microscopy, focused ion beam, and high-resolution transmission electron microscopy. *Clinical Implant Dentistry and Related Research*, **2008**, 10, 11-22	3.9	65
181	A ceramic drug delivery vehicle for oral administration of highly potent opioids. *Journal of Pharmaceutical Sciences*, **2010**, 99, 219-26	3.9	62
180	A comparative study of the bioactivity of three materials for dental applications. *Dental Materials*, **2008**, 24, 653-9	5.7	53
179	Phase formation of CaAl2O4 from CaCO3–Al2O3 powder mixtures. *Journal of the European Ceramic Society*, **2008**, 28, 747-756	6	51
178	The effect of composition on mechanical properties of brushite cements. *Journal of the Mechanical Behavior of Biomedical Materials*, **2014**, 29, 81-90	4.1	50
177	Evaluation of silicon nitride as a wear resistant and resorbable alternative for total hip joint replacement. *Biomatter*, **2012**, 2, 94-102		50
176	Technique for preparation and characterization in cross-section of oral titanium implant surfaces using focused ion beam and transmission electron microscopy. *Journal of Biomedical Materials Research - Part A*, **2008**, 87, 1003-9	5.4	50
175	In vivo and in vitro evaluation of hydroxyapatite nanoparticle morphology on the acute inflammatory response. *Biomaterials*, **2016**, 90, 1-11	15.6	47
174	Hydroxylapatite growth on single-crystal rutile substrates. *Biomaterials*, **2008**, 29, 3317-23	15.6	46
173	Development of a bioactive implant for repair and potential healing of cranial defects. *Journal of Neurosurgery*, **2014**, 120, 273-7	3.2	45
172	A novel graded bioactive high adhesion implant coating. *Applied Surface Science*, **2009**, 255, 7723-7728	6.7	45
171	Glass-Ceramics in Dentistry: A Review. *Materials*, **2020**, 13,	3.5	44
170	Dental adhesives with bioactive and on-demand bactericidal properties. *Dental Materials*, **2010**, 26, 491-9	5.7	43

169	Thickness dependency of mechanical properties for thin-walled titanium parts manufactured by Electron Beam Melting (EBM) □ . *Additive Manufacturing*, **2016**, 12, 45-50	6.1	42
168	Photocatalytic and antimicrobial properties of surgical implant coatings of titanium dioxide deposited though cathodic arc evaporation. *Biotechnology Letters*, **2012**, 34, 2299-305	3	42
167	Microstructure and Abrasive Wear of Binderless Carbides. *Journal of the American Ceramic Society*, **2004**, 83, 2491-2496	3.8	41
166	Surface oxidation behavior of Ti□Al□V manufactured by Electron Beam Melting (EBM□). *Journal of Manufacturing Processes*, **2015**, 17, 120-126	5	39
165	In vitro characterization of bioactive titanium dioxide/hydroxyapatite surfaces functionalized with BMP-2. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 91, 780-7	3.5	38
164	Focused Ion Beam in the Study of Biomaterials and Biological Matter. *Advances in Materials Science and Engineering*, **2012**, 2012, 1-6	1.5	38
163	Mechanically strong geopolymers offer new possibilities in treatment of chronic pain. *Journal of Controlled Release*, **2010**, 146, 370-7	11.7	37
162	Compressive, diametral tensile and biaxial flexural strength of cutting-edge calcium phosphate cements. *Journal of the Mechanical Behavior of Biomedical Materials*, **2016**, 60, 617-627	4.1	36
161	Bone tissue reactions to biomimetic ion-substituted apatite surfaces on titanium implants. *Journal of the Royal Society Interface*, **2012**, 9, 1615-24	4.1	36
160	Free form fabricated features on CoCr implants with and without hydroxyapatite coating in vivo: a comparative study of bone contact and bone growth induction. *Journal of Materials Science: Materials in Medicine*, **2011**, 22, 899-906	4.5	36
159	Synthesis and release of trace elements from hollow and porous hydroxyapatite spheres. *Nanotechnology*, **2011**, 22, 305610	3.4	35
158	Transparent single crystalline ZrO2-SiO2 glass nanoceramic sintered by SPS. *Journal of the European Ceramic Society*, **2016**, 36, 3487-3494	6	34
157	Reactive combinatorial synthesis and characterization of a gradient Ag-Ti oxide thin film with antibacterial properties. *Acta Biomaterialia*, **2015**, 11, 503-10	10.8	32
156	Mapping of mechanical properties of WC□Co using nanoindentation. *Tribology Letters*, **2000**, 8, 147-152	2.8	32
155	Titanium surface modification to enhance antibacterial and bioactive properties while retaining biocompatibility. *Materials Science and Engineering C*, **2019**, 96, 272-279	8.3	32
154	Bioceramic microneedles with flexible and self-swelling substrate. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 94, 404-10	5.7	29
153	Assessing surface area evolution during biomimetic growth of hydroxyapatite coatings. *Langmuir*, **2009**, 25, 1292-5	4	29
152	A Novel Class of Injectable Bioceramics that Glue Tissues and Biomaterials. *Materials*, **2018**, 11,	3.5	29

151	Highly translucent and strong ZrO2-SiO2 nanocrystalline glass ceramic prepared by sol-gel method and spark plasma sintering with fine 3D microstructure for dental restoration. *Journal of the European Ceramic Society*, **2017**, 37, 4067-4081	6	28
150	Nano grain sized zirconia□silica glass ceramics for dental applications. *Journal of the European Ceramic Society*, **2012**, 32, 4105-4110	6	28
149	Pyrophosphate Stimulates Differentiation, Matrix Gene Expression and Alkaline Phosphatase Activity in Osteoblasts. *PLoS ONE*, **2016**, 11, e0163530	3.7	28
148	Bioceramic Implant Induces Bone Healing of Cranial Defects. *Plastic and Reconstructive Surgery - Global Open*, **2015**, 3, e491	1.2	27
147	Early-age deformation, drying shrinkage and thermal dilation in a new type of dental restorative material based on calcium aluminate cement. *Cement and Concrete Research*, **2004**, 34, 439-446	10.3	27
146	Co-loading of bisphosphonates and antibiotics to a biomimetic hydroxyapatite coating. *Biotechnology Letters*, **2011**, 33, 1265-8	3	26
145	Digital image correlation analysis of local strain fields on Ti6Al4V manufactured by electron beam melting. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 618, 456-461	5.3	24
144	Wear and friction properties of experimental Ti-Si-Zr alloys for biomedical applications. *Journal of the Mechanical Behavior of Biomedical Materials*, **2014**, 39, 61-72	4.1	24
143	Bacteria-material surface interactions: methodological development for the assessment of implant surface induced antibacterial effects. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2015**, 103, 179-87	3.5	23
142	Self-setting bioceramic microscopic protrusions for transdermal drug delivery. *Journal of Materials Chemistry B*, **2014**, 2, 5992-5998	7.3	23
141	The influence of Sr content in calcium phosphate coatings. *Materials Science and Engineering C*, **2015**, 53, 322-30	8.3	22
140	Photocatalytic inactivation of biofilms on bioactive dental adhesives. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2014**, 102, 62-7	3.5	22
139	Compressive mechanical properties and cytocompatibility of bone-compliant, linoleic acid-modified bone cement in a bovine model. *Journal of the Mechanical Behavior of Biomedical Materials*, **2014**, 32, 245-256	4.1	22
138	Antibacterial investigation of titanium-copper alloys using luminescent Staphylococcus epidermidis in a direct contact test. *Materials Science and Engineering C*, **2019**, 97, 707-714	8.3	22
137	Effect of deposition parameters on the photocatalytic activity and bioactivity of TiO2 thin films deposited by vacuum arc on Ti-6Al-4V substrates. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2012**, 100, 1078-85	3.5	21
136	Classification and Effects of Implant Surface Modification on the Bone: Human Cell-Based In Vitro Studies. *Journal of Oral Implantology*, **2017**, 43, 58-83	1.2	20
135	Bisphosphonate incorporation in surgical implant coatings by fast loading and co-precipitation at low drug concentrations. *Journal of Materials Science: Materials in Medicine*, **2009**, 20, 2053-61	4.5	20
134	High-resolution three-dimensional probes of biomaterials and their interfaces. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2012**, 370, 1337-51	3	20

133	A novel method for local administration of strontium from implant surfaces. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 1605-9	4.5	20
132	Studies of early growth mechanisms of hydroxyapatite on single crystalline rutile: a model system for bioactive surfaces. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 2743-9	4.5	20
131	A ready-to-use acidic, brushite-forming calcium phosphate cement. *Acta Biomaterialia*, **2018**, 81, 304-314	10.8	20
130	Guided growth of auditory neurons: Bioactive particles towards gapless neural - electrode interface. *Biomaterials*, **2017**, 122, 1-9	15.6	19
129	Zebrafish embryo as a replacement model for initial biocompatibility studies of biomaterials and drug delivery systems. *Acta Biomaterialia*, **2019**, 100, 235-243	10.8	19
128	Dissolution behaviour of silicon nitride coatings for joint replacements. *Materials Science and Engineering C*, **2016**, 62, 497-505	8.3	19
127	Comparison of Decellularized Cow and Human Bone for Engineering Bone Grafts with Human Induced Pluripotent Stem Cells. *Tissue Engineering - Part A*, **2019**, 25, 288-301	3.9	19
126	Influence of water content on hardening and handling of a premixed calcium phosphate cement. *Materials Science and Engineering C*, **2013**, 33, 527-31	8.3	19
125	Synergetic inactivation of Staphylococcus epidermidis and Streptococcus mutansin a TiO2/H2O2/UV system. *Biomatter*, **2013**, 3,		19
124	Bone response to free-form fabricated hydroxyapatite and zirconia scaffolds: a transmission electron microscopy study in the human maxilla. *Clinical Implant Dentistry and Related Research*, **2012**, 14, 461-9	3.9	18
123	Osteogenic potential of Sr-doped calcium phosphate hollow spheres in vitro and in vivo. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 2322-31	5.4	18
122	Effect of Copper Ion Concentration on Bacteria and Cells. *Materials*, **2019**, 12,	3.5	18
121	Three-dimensional structure of laser-modified Ti6Al4V and bone interface revealed with STEM tomography. *Ultramicroscopy*, **2013**, 127, 48-52	3.1	17
120	Stiffness and strength of cranioplastic implant systems in comparison to cranial bone. *Journal of Cranio-Maxillo-Facial Surgery*, **2018**, 46, 418-423	3.6	17
119	The effect of unsaturated fatty acid and triglyceride oil addition on the mechanical and antibacterial properties of acrylic bone cements. *Journal of Biomaterials Applications*, **2015**, 30, 279-89	2.9	16
118	Stability and prospect of UV/H2O2 activated titania films for biomedical use. *Applied Surface Science*, **2013**, 285, 317-323	6.7	16
117	Bioceramic microneedle arrays are able to deliver OVA to dendritic cells in human skin. *Journal of Materials Chemistry B*, **2018**, 6, 6808-6816	7.3	16
116	Brushite foams--the effect of Tween 80 and Pluronic F-127 on foam porosity and mechanical properties. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2016**, 104, 67-77	3.5	15

115	Chemically Bonded Ceramics as Biomaterials. *Key Engineering Materials*, **2003**, 247, 437-442	0.4	15
114	Biomineralization on single crystalline rutile: the modulated growth of hydroxyapatite by fibronectin in a simulated body fluid. *RSC Advances*, **2016**, 6, 35507-35516	3.7	15
113	Ultrastrong Translucent Glass Ceramic with Nanocrystalline, Biomimetic Structure. *Nano Letters*, **2018**, 18, 7146-7154	11.5	15
112	Biomimetic calcium phosphate coating of additively manufactured porous CoCr implants. *Applied Surface Science*, **2015**, 353, 40-47	6.7	14
111	Engineering human bone grafts with new macroporous calcium phosphate cement scaffolds. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 715-726	4.4	14
110	Premixed calcium silicate cement for endodontic applications: injectability, setting time and radiopacity. *Biomatter*, **2011**, 1, 76-80		14
109	In situ bone regeneration of large cranial defects using synthetic ceramic implants with a tailored composition and design. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 26660-26671	11.5	14
108	Fabrication of macroporous cement scaffolds using PEG particles: In vitro evaluation with induced pluripotent stem cell-derived mesenchymal progenitors. *Materials Science and Engineering C*, **2016**, 69, 640-52	8.3	14
107	The Monetite Structure Probed by Advanced Solid-State NMR Experimentation at Fast Magic-Angle Spinning. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	14
106	A biomechanical test model for evaluating osseous and osteochondral tissue adhesives. *BMC Biomedical Engineering*, **2019**, 1, 11	4.3	13
105	Simvastatin and zinc synergistically enhance osteoblasts activity and decrease the acute response of inflammatory cells. *Journal of Materials Science: Materials in Medicine*, **2016**, 27, 23	4.5	13
104	Advanced solid-state 1H/31P NMR characterization of pyrophosphate-doped calcium phosphate cements for biomedical applications: The structural role of pyrophosphate. *Ceramics International*, **2019**, 45, 20642-20655	5.1	13
103	Evaluation of the resistance of a geopolymer-based drug delivery system to tampering. *International Journal of Pharmaceutics*, **2014**, 465, 169-74	6.5	13
102	Commercially Available Dental Implants: Review of Their Surface Characteristics. *Journal of Biomaterials and Tissue Engineering*, **2012**, 2, 112-124	0.3	13
101	Synthetic geopolymers for controlled delivery of oxycodone: adjustable and nanostructured porosity enables tunable and sustained drug release. *PLoS ONE*, **2011**, 6, e17759	3.7	13
100	In Vivo Evaluation of Functionalized Biomimetic Hydroxyapatite for Local Delivery of Active Agents. *Journal of Biomaterials and Nanobiotechnology*, **2011**, 02, 149-154	1	13
99	Influence of cement compressive strength and porosity on augmentation performance in a model of orthopedic screw pull-out. *Journal of the Mechanical Behavior of Biomedical Materials*, **2018**, 77, 624-633	4.1	12
98	Spark plasma sintering of biodegradable Si3N4 bioceramic with Sr, Mg and Si as sintering additives for spinal fusion. *Journal of the European Ceramic Society*, **2018**, 38, 2110-2119	6	12

97	Adhesive Cements That Bond Soft Tissue Ex Vivo. *Materials*, **2019**, 12,	3.5	12
96	Calcium phosphate cements with strontium halides as radiopacifiers. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2014**, 102, 250-9	3.5	12
95	FGF1 containing biodegradable device with peripheral nerve grafts induces corticospinal tract regeneration and motor evoked potentials after spinal cord resection. *Restorative Neurology and Neuroscience*, **2012**, 30, 91-102	2.8	12
94	Influence of particle size on hardening and handling of a premixed calcium phosphate cement. *Journal of Materials Science: Materials in Medicine*, **2013**, 24, 829-35	4.5	12
93	In Vivo Hydrating Calcium Aluminate Coatings for Anchoring of Metal Implants in Bone. *Key Engineering Materials*, **2005**, 284-286, 831-834	0.4	12
92	Synthesis of Ag doped calcium phosphate particles and their antibacterial effect as additives in dental glass ionomer cements. *Journal of Materials Science: Materials in Medicine*, **2016**, 27, 172	4.5	12
91	Development of Antibacterial Ti-Cu Alloys for Dental Applications: Effects of Ageing for Alloys with Up to 10 wt% Cu. *Materials*, **2019**, 12,	3.5	12
90	Biodegradable Si3N4 bioceramic sintered with Sr, Mg and Si for spinal fusion: Surface characterization and biological evaluation. *Applied Materials Today*, **2018**, 12, 260-275	6.6	12
89	Biomechanics of low-modulus and standard acrylic bone cements in simulated vertebroplasty: A human ex vivo study. *Journal of Biomechanics*, **2015**, 48, 3258-66	2.9	10
88	Enhanced bioactivity of glass ionomer cement by incorporating calcium silicates. *Biomatter*, **2016**, 6, e1123842		10
87	Critical cracking thickness of calcium phosphates biomimetic coating: Verification via a Singh-Tirumkudulu model. *Ceramics International*, **2017**, 43, 15729-15734	5.1	10
86	Influence of polymer addition on the mechanical properties of a premixed calcium phosphate cement. *Biomatter*, **2013**, 3,		10
85	A novel method for producing electron transparent films of interfaces between cells and biomaterials. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 467-70	4.5	10
84	An Injectable Bone Void Filler Cement Based on Ca-Aluminate. *Key Engineering Materials*, **2003**, 254-256, 265-268	0.4	10
83	Influence of Substrate Heating and Nitrogen Flow on the Composition, Morphological and Mechanical Properties of SiN Coatings Aimed for Joint Replacements. *Materials*, **2017**, 10,	3.5	9
82	Cytotoxicity of modified glass ionomer cement on odontoblast cells. *Journal of Materials Science: Materials in Medicine*, **2016**, 27, 116	4.5	9
81	Bioactive Spheres: The Way of Treating Dentin Hypersensitivity. *ACS Biomaterials Science and Engineering*, **2016**, 2, 734-740	5.5	9
80	Novel Fast-Setting Mineral Trioxide Aggregate: Its Formulation, Chemical-Physical Properties, and Cytocompatibility. *ACS Applied Materials & Interfaces*, **2018**, 10, 20334-20341	9.5	9

79	Development and evaluation of a tampering resistant transdermal fentanyl patch. *International Journal of Pharmaceutics*, **2015**, 488, 102-7	6.5	8
78	Amorphous Calcium Magnesium Phosphate Particles for Treatment of Dentin Hypersensitivity: A Mode of Action Study. *ACS Biomaterials Science and Engineering*, **2020**, 6, 3599-3607	5.5	8
77	Mechanical behaviour of composite calcium phosphate-titanium cranial implants: Effects of loading rate and design. *Journal of the Mechanical Behavior of Biomedical Materials*, **2020**, 104, 103701	4.1	8
76	Morphology and Dissolution Rate of Wear Debris from Silicon Nitride Coatings. *ACS Biomaterials Science and Engineering*, **2016**, 2, 998-1004	5.5	8
75	Synthesis of calcium phosphate crystals with thin nacreous structure. *CrystEngComm*, **2016**, 18, 1064-1069	3.3	8
74	Spark plasma sintered β-phase silicon nitride with Sr and Ca as a sintering aid for load bearing medical applications. *Journal of the European Ceramic Society*, **2012**, 32, 2705-2709	6	8
73	Enhanced drug delivery of antibiotic-loaded acrylic bone cements using calcium phosphate spheres. *Journal of Applied Biomaterials and Functional Materials*, **2015**, 13, e241-7	1.8	8
72	Low-modulus PMMA bone cement modified with castor oil. *Bio-Medical Materials and Engineering*, **2011**, 21, 323-32	1	8
71	Direct and interactive effects of three variables on properties of PMMA bone cement for vertebral body augmentation. *Journal of Materials Science: Materials in Medicine*, **2011**, 22, 1599-606	4.5	8
70	In Situ Synchrotron X-ray Diffraction Analysis of the Setting Process of Brushite Cement: Reaction and Crystal Growth. *ACS Applied Materials & Interfaces*, **2017**, 9, 36392-36399	9.5	7
69	Highly repeatable synthesis of nHA with high aspect ratio. *Materials Letters*, **2015**, 159, 163-167	3.3	7
68	Electron microscopy evaluation of mineralization on peritubular dentin with amorphous calcium magnesium phosphate microspheres. *Ceramics International*, **2020**, 46, 19469-19475	5.1	7
67	Effect of strontium ions on the early formation of biomimetic apatite on single crystalline rutile. *Applied Surface Science*, **2013**, 266, 199-204	6.7	7
66	Polymer excipients enable sustained drug release in low pH from mechanically strong inorganic geopolymers. *Results in Pharma Sciences*, **2012**, 2, 23-8		7
65	Towards Functional Silicon Nitride Coatings for Joint Replacements. *Coatings*, **2019**, 9, 73	2.9	6
64	The effect of oligo(trimethylene carbonate) addition on the stiffness of acrylic bone cement. *Biomatter*, **2016**, 6, e1133394		6
63	Organic degradation potential of a TiO/HO/UV-vis system for dental applications. *Journal of Dentistry*, **2017**, 67, 53-57	4.8	6
62	A general strategy for template-free and low-cost synthesis of inorganic hollow spheres. *Powder Technology*, **2017**, 319, 163-171	5.2	6

61	Resolving the CaP-bone interface: a review of discoveries with light and electron microscopy. *Biomatter*, **2012**, 2, 15-23		6
60	Mechanical Property Aspects of a Biomineral Based Dental Restorative System. *Key Engineering Materials*, **2005**, 284-286, 741-744	0.4	6
59	Solid-State NMR Rationalizes the Bone-Adhesive Properties of Serine- and Phosphoserine-Bearing Calcium Phosphate Cements by Unveiling Their Organic/Inorganic Interface. *Journal of Physical Chemistry C*, **2020**, 124, 21512-21531	3.8	6
58	Monetite-based composite cranial implants demonstrate long-term clinical volumetric balance by concomitant bone formation and degradation. *Acta Biomaterialia*, **2021**, 128, 502-513	10.8	6
57	Compressive fatigue limit of four types of dental restorative materials. *Journal of the Mechanical Behavior of Biomedical Materials*, **2016**, 61, 283-289	4.1	6
56	Synthesis of Phospho-Amino Acid Analogues as Tissue Adhesive Cement Additives. *ACS Central Science*, **2020**, 6, 226-231	16.8	5
55	Factors That Determine the Adhesive Strength in a Bioinspired Bone Tissue Adhesive. *ChemEngineering*, **2020**, 4, 19	2.6	5
54	Evaluation of an alkali-treated and hydroxyapatite-coated orthopedic implant loaded with tobramycin. *Journal of Biomaterials Applications*, **2019**, 34, 699-720	2.9	5
53	Template-free synthesis of phosphate-based spheres via modified supersaturated phosphate buffer solutions. *Journal of Materials Science: Materials in Medicine*, **2017**, 28, 99	4.5	5
52	A Study for Tooth Bleaching via Carbamide Peroxide-Loaded Hollow Calcium Phosphate Spheres. *Dentistry Journal*, **2016**, 5,	3.1	5
51	Rebamipide delivered by brushite cement enhances osteoblast and macrophage proliferation. *PLoS ONE*, **2015**, 10, e0128324	3.7	5
50	Nano-Size Biomaterials Based on Ca-Aluminate. *Advances in Science and Technology*, **2006**, 49, 21-26	0.1	5
49	Mechanical Testing of Chemically Bonded Bioactive Ceramic Materials. *Key Engineering Materials*, **2003**, 254-256, 51-54	0.4	5
48	In vivo safety assessment of a bio-inspired bone adhesive. *Journal of Materials Science: Materials in Medicine*, **2020**, 31, 24	4.5	4
47	In vitro antibacterial properties and UV induced response from Staphylococcus epidermidis on Ag/Ti oxide thin films. *Journal of Materials Science: Materials in Medicine*, **2016**, 27, 49	4.5	4
46	Photocatalysis induces bioactivity of an organic polymer based material. *RSC Advances*, **2014**, 4, 57715-57723	3.7	4
45	The formation of calcium fluoride microspheres via solubility equilibrium. *Ceramics International*, **2017**, 43, 14521-14524	5.1	4
44	Photocatalytic activity of low temperature oxidized Ti-6Al-4V. *Journal of Materials Science: Materials in Medicine*, **2012**, 23, 1173-80	4.5	4

43	Titanium reinforced calcium phosphate improves bone formation and osteointegration in ovine calvaria defects: a comparative 52-weeks study. *Biomedical Materials (Bristol)*, **2020**,	3.5	4
42	Size-driven phase transformation and microstructure evolution of ZrO2 nanocrystallites associated with thermal treatments. *Journal of the European Ceramic Society*, **2021**, 41, 5624-5633	6	4
41	The Addition of Poly(Vinyl Alcohol) Fibers to Apatitic Calcium Phosphate Cement Can Improve Its Toughness. *Materials*, **2019**, 12,	3.5	3
40	Gentamicin loading of calcium phosphate implants: implications for cranioplasty. *Acta Neurochirurgica*, **2019**, 161, 1255-1259	3	3
39	Cemented injectable multi-phased porous bone grafts for the treatment of femoral head necrosis. *Journal of Materials Chemistry B*, **2019**, 7, 2997-3006	7.3	3
38	Quantitative phase analyses of biomedical pyrophosphate-bearing monetite and brushite cements by solid-state NMR and powder XRD. *Ceramics International*, **2020**, 46, 11000-11012	5.1	3
37	The Effect of Coating Density on Functional Properties of SiN Coated Implants. *Materials*, **2019**, 12,	3.5	3
36	Laser induced surface structuring and ion conversion in the surface oxide of titanium: possible implications for the wetability of laser treated implants. *Journal of Materials Science: Materials in Medicine*, **2013**, 24, 11-5	4.5	3
35	Fabrication of translucent nanoceramics via a simple filtration method. *RSC Advances*, **2015**, 5, 99848-99855	3.7	3
34	Characterization of dental interfaces with electron tomography. *Biointerphases*, **2014**, 9, 029001	1.8	3
33	Calcium sulfate spinal cord scaffold: a study on degradation and fibroblast growth factor 1 loading and release. *Journal of Biomaterials Applications*, **2012**, 26, 667-85	2.9	3
32	Ceramic cement as a potential stand-alone treatment for bone fractures: An in vitro study of ceramic-bone composites. *Journal of the Mechanical Behavior of Biomedical Materials*, **2016**, 61, 519-529	4.1	3
31	Observation of yttrium oxide segregation in a ZrO2-SiO2 glass-ceramic at nanometer dimensions. *Journal of the American Ceramic Society*, **2020**, 103, 7147-7158	3.8	2
30	The Effect of N, C, Cr, and Nb Content on Silicon Nitride Coatings for Joint Applications. *Materials*, **2020**, 13,	3.5	2
29	Investigation of Copper Alloying in a TNTZ-Cu Alloy. *Materials*, **2019**, 12,	3.5	2
28	Nanoscale size control of protein aggregates. *Small*, **2013**, 9, 3320-6	11	2
27	The Effect of Curing Conditions on Compression Strength and Porosity of Metakaolin-Based Geopolymers. *Ceramic Engineering and Science Proceedings*, **2013**, 49-56	0.1	2
26	Characterization of the Tissue-Bioceramic Interface In Vivo Using New Preparation and Analytical Tools. *Advances in Science and Technology*, **2006**, 49, 275-281	0.1	2

25	Gluing Living Bone Using a Biomimetic Bioadhesive: From Initial Cut to Final Healing. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 728042	5.8	2
24	Silk fibroin hydrogels induced and reinforced by acidic calcium phosphate - A simple way of producing bioactive and drug-loadable composites for biomedical applications. *International Journal of Biological Macromolecules*, **2021**, 193, 433-440	7.9	2
23	A biomimetic engineered bone platform for advanced testing of prosthetic implants. *Scientific Reports*, **2020**, 10, 22154	4.9	2
22	Synthesis and assessment of metallic ion migration through a novel calcium carbonate coating for biomedical implants. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2020**, 108, 429-438	3.5	2
21	Fabrication and characterization of bioactive zirconia-based nanocrystalline glass-ceramics for dental abutment. *Ceramics International*, **2021**, 47, 26877-26890	5.1	2
20	Thromboinflammation as bioactivity assessment of HO-alkali modified titanium surfaces. *Journal of Materials Science: Materials in Medicine*, **2019**, 30, 66	4.5	1
19	Si-Fe-C-N Coatings for Biomedical Applications: A Combinatorial Approach. *Materials*, **2020**, 13,	3.5	1
18	A novel rapid synthesis, characterization and applications of calcium phosphate nanospheres from Baltic seawater. *Ceramics International*, **2018**, 44, 9076-9079	5.1	1
17	Rapid precipitation of Mg-doped fluoride-based submicron spheres and evolution study. *Journal of Solid State Chemistry*, **2018**, 260, 142-146	3.3	1
16	Ultrastructural characterisation of the hydroxyapatite-coated pedicle screw and human bone interface. *International Journal of Nano and Biomaterials*, **2012**, 4, 1	0.2	1
15	Injectable and assembled 3D solid structure for free-to-fixed shape in bone reconstruction. *Applied Materials Today*, **2020**, 21, 100823	6.6	1
14	Surface and Subsurface Analyses of Metal-on-Polyethylene Total Hip Replacement Retrievals. *Annals of Biomedical Engineering*, **2016**, 44, 1685-97	4.7	1
13	Ion substitution induced formation of spherical ceramic particles. *Ceramics International*, **2019**, 45, 10385-10393	5.1	1
12	Monocytes and pyrophosphate promote mesenchymal stem cell viability and early osteogenic differentiation.. *Journal of Materials Science: Materials in Medicine*, **2022**, 33, 11	4.5	0
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