Ozan Akkus

List of Publications by Citations

Source: https://exaly.com/author-pdf/8867507/ozan-akkus-publications-by-citations.pdf

Version: 2024-04-23

ext. papers

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 146
 4,367
 35
 61

 papers
 citations
 h-index
 g-index

 181
 4,952
 4.3
 5.76

ext. citations

avg, IF

L-index

#	Paper	IF	Citations
146	Age-related changes in physicochemical properties of mineral crystals are related to impaired mechanical function of cortical bone. <i>Bone</i> , 2004 , 34, 443-53	4.7	323
145	The mechanical environment of bone marrow: a review. <i>Annals of Biomedical Engineering</i> , 2008 , 36, 197	8 ₄ 971	212
144	Aging of microstructural compartments in human compact bone. <i>Journal of Bone and Mineral Research</i> , 2003 , 18, 1012-9	6.3	195
143	An electrochemical fabrication process for the assembly of anisotropically oriented collagen bundles. <i>Biomaterials</i> , 2008 , 29, 3278-88	15.6	194
142	The associations between mineral crystallinity and the mechanical properties of human cortical bone. <i>Bone</i> , 2008 , 42, 476-82	4.7	166
141	Tenogenic differentiation of human MSCs induced by the topography of electrochemically aligned collagen threads. <i>Biomaterials</i> , 2012 , 33, 2137-44	15.6	162
140	Random lasing in bone tissue. <i>Optics Letters</i> , 2010 , 35, 1425-7	3	123
139	The compositional and physicochemical homogeneity of male femoral cortex increases after the sixth decade. <i>Bone</i> , 2006 , 39, 1236-43	4.7	120
138	Mechanical Properties, Cytocompatibility and Manufacturability of Chitosan:PEGDA Hybrid-Gel Scaffolds by Stereolithography. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 286-296	4.7	113
137	Tenogenic Induction of Human MSCs by Anisotropically Aligned Collagen Biotextiles. <i>Advanced Functional Materials</i> , 2014 , 24, 5762-5770	15.6	111
136	Physically crosslinked nanocomposites from silicate-crosslinked PEO: mechanical properties and osteogenic differentiation of human mesenchymal stem cells. <i>Macromolecular Bioscience</i> , 2012 , 12, 779	-93	96
135	Hierarchical relationship between bone traits and mechanical properties in inbred mice. <i>Mammalian Genome</i> , 2003 , 14, 97-104	3.2	91
134	Fracture resistance of gamma radiation sterilized cortical bone allografts. <i>Journal of Orthopaedic Research</i> , 2001 , 19, 927-34	3.8	86
133	Free radical scavenging alleviates the biomechanical impairment of gamma radiation sterilized bone tissue. <i>Journal of Orthopaedic Research</i> , 2005 , 23, 838-45	3.8	85
132	Cortical bone tissue resists fatigue fracture by deceleration and arrest of microcrack growth. <i>Journal of Biomechanics</i> , 2001 , 34, 757-64	2.9	78
131	Highly Extensible Bio-Nanocomposite Films with Direction-Dependent Properties. <i>Advanced Functional Materials</i> , 2010 , 20, 429-436	15.6	76
130	Local variations in the micromechanical properties of mouse femur: the involvement of collagen fiber orientation and mineralization. <i>Journal of Biomechanics</i> , 2007 , 40, 910-8	2.9	63

(2017-2006)

129	Effect of fixation and embedding on Raman spectroscopic analysis of bone tissue. <i>Calcified Tissue International</i> , 2006 , 78, 363-71	3.9	60
128	Raman spectral classification of mineral- and collagen-bound water's associations to elastic and post-yield mechanical properties of cortical bone. <i>Bone</i> , 2015 , 81, 315-326	4.7	57
127	Microcracks colocalize within highly mineralized regions of cortical bone tissue. <i>European Journal of Morphology</i> , 2005 , 42, 43-51		56
126	Genipin crosslinking elevates the strength of electrochemically aligned collagen to the level of tendons. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 15, 176-89	4.1	53
125	Modeling the electromobility of type-I collagen molecules in the electrochemical fabrication of dense and aligned tissue constructs. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 1641-53	4.7	52
124	Synthesis and mechanical properties of interpenetrating networks of polyhydroxybutyrate-co-hydroxyvalerate and polyhydroxyethyl methacrylate. <i>Biomaterials</i> , 1998 , 19, 1137-43	15.6	51
123	Molecular spectroscopic identification of the water compartments in bone. <i>Bone</i> , 2014 , 67, 228-36	4.7	46
122	In vivo response to electrochemically aligned collagen bioscaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 400-8	3.5	46
121	Sterilization by gamma radiation impairs the tensile fatigue life of cortical bone by two orders of magnitude. <i>Journal of Orthopaedic Research</i> , 2005 , 23, 1054-8	3.8	46
120	Biomechanical analysis of the effects of single high-dose vitamin D3 on fracture healing in a healthy rabbit model. <i>Archives of Orthopaedic and Trauma Surgery</i> , 1997 , 116, 271-4	3.6	42
119	In vivo linear microcracks of human femoral cortical bone remain parallel to osteons during aging. <i>Bone</i> , 2008 , 43, 856-61	4.7	41
118	Elastic deformation of mineralized collagen fibrils: an equivalent inclusion based composite model. Journal of Biomechanical Engineering, 2005, 127, 383-90	2.1	40
117	Collagen Substrate Stiffness Anisotropy Affects Cellular Elongation, Nuclear Shape, and Stem Cell Fate toward Anisotropic Tissue Lineage. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2237-47	10.1	39
116	Detection of nanoscale structural changes in bone using random lasers. <i>Biomedical Optics Express</i> , 2010 , 1, 1401-1407	3.5	38
115	Visualization of a phantom post-yield deformation process in cortical bone. <i>Journal of Biomechanics</i> , 2010 , 43, 1989-96	2.9	38
114	Effects of substrate stiffness on the tenoinduction of human mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2017 , 58, 244-253	10.8	38
113	Novel Raman Spectroscopic Biomarkers Indicate That Postyield Damage Denatures Bone's Collagen. <i>Journal of Bone and Mineral Research</i> , 2016 , 31, 1015-25	6.3	38
112	Organismal Engineering: Towards a Robotic Taxonomic Key for Devices Using Organic Materials. <i>Science Robotics</i> , 2017 , 2,	18.6	37

111	Fabrication of compositionally and topographically complex robust tissue forms by 3D-electrochemical compaction of collagen. <i>Biofabrication</i> , 2015 , 7, 035001	10.5	34
110	Incorporation of a decorin biomimetic enhances the mechanical properties of electrochemically aligned collagen threads. <i>Acta Biomaterialia</i> , 2011 , 7, 2428-36	10.8	33
109	Biologic and Synthetic Grafts in the Reconstruction of Large to Massive Rotator Cuff Tears. <i>Journal of the American Academy of Orthopaedic Surgeons, The</i> , 2016 , 24, 823-828	4.5	33
108	Reduction of restrictive adhesions by local aprotinin application and primary sheath repair in surgically traumatized flexor tendons of the rabbit. <i>Journal of Hand Surgery</i> , 1997 , 22, 826-32	2.6	31
107	Mechanical stretch induced calcium efflux from bone matrix stimulates osteoblasts. <i>Bone</i> , 2012 , 50, 581	1- ₂ 9. 7	30
106	Effects of phosphate-buffered saline concentration and incubation time on the mechanical and structural properties of electrochemically aligned collagen threads. <i>Biomedical Materials (Bristol)</i> , 2011 , 6, 035008	3.5	29
105	Conceptual designs of conduction cooled MgB2 magnets for 1.5 and 3.0T full body MRI systems. <i>Superconductor Science and Technology</i> , 2017 , 30,	3.1	27
104	Bone Morphology and Organization 2014 , 3-25		27
103	Mechanical loading, damping, and load-driven bone formation in mouse tibiae. <i>Bone</i> , 2012 , 51, 810-8	4.7	26
102	Comparison of morphology, orientation, and migration of tendon derived fibroblasts and bone marrow stromal cells on electrochemically aligned collagen constructs. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 94, 1070-9	5.4	26
101	A Point-of-Care Raman Spectroscopy-Based Device for the Diagnosis of Gout and Pseudogout: Comparison With the Clinical Standard Microscopy. <i>Arthritis and Rheumatology</i> , 2016 , 68, 1751-7	9.5	26
100	Woven collagen biotextiles enable mechanically functional rotator cuff tendon regeneration during repair of segmental tendon defects in vivo. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 1864-1876	3.5	26
99	A micro-architecturally biomimetic collagen template for mesenchymal condensation based cartilage regeneration. <i>Acta Biomaterialia</i> , 2016 , 30, 212-221	10.8	25
98	The sequential production profiles of growth factors and their relations to bone volume in ossifying bone marrow explants. <i>Tissue Engineering - Part A</i> , 2010 , 16, 2295-306	3.9	25
97	Anisotropically Stiff 3D Micropillar Niche Induces Extraordinary Cell Alignment and Elongation. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1884-92	10.1	22
96	Gamma Radiation Sterilization Reduces the High-cycle Fatigue Life of Allograft Bone. <i>Clinical Orthopaedics and Related Research</i> , 2016 , 474, 827-35	2.2	22
95	Wide-field Raman imaging of dental lesions. <i>Analyst, The</i> , 2014 , 139, 3107-14	5	22
94	Engineering small-caliber vascular grafts from collagen filaments and nanofibers with comparable mechanical properties to native vessels. <i>Biofabrication</i> , 2019 , 11, 035020	10.5	21

93	Effects of age and shear rate on the rheological properties of human yellow bone marrow. <i>Biorheology</i> , 2011 , 48, 89-97	1.7	21
92	Assessing matrix quality by Raman spectroscopy helps predict fracture toughness of human cortical bone. <i>Scientific Reports</i> , 2019 , 9, 7195	4.9	20
91	Computational homogenization of the elastic and thermal properties of superconducting composite MgB2 wire. <i>Composite Structures</i> , 2018 , 188, 313-329	5.3	20
90	Acoustic emission based monitoring of the microdamage evolution during fatigue of human cortical bone. <i>Journal of Biomechanical Engineering</i> , 2013 , 135, 81005	2.1	20
89	Relationship between damage accumulation and mechanical property degradation in cortical bone: microcrack orientation is important. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 65, 482-8		20
88	Laser Wavelength Dependence of Background Fluorescence in Raman Spectroscopic Analysis of Synovial Fluid from Symptomatic Joints. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 1089-1095	2.3	19
87	Biomechanical evaluation of a novel suturing scheme for grafting load-bearing collagen scaffolds for rotator cuff repair. <i>Clinical Biomechanics</i> , 2015 , 30, 669-75	2.2	19
86	Analysis of crystals leading to joint arthropathies by Raman spectroscopy: comparison with compensated polarized imaging. <i>Applied Spectroscopy</i> , 2009 , 63, 381-6	3.1	19
85	Modulation of Hydroxyapatite Nanocrystal Size and Shape by Polyelectrolytic Peptides. <i>Crystal Growth and Design</i> , 2009 , 9, 5220-5226	3.5	19
84	Effects of PDGF-BB delivery from heparinized collagen sutures on the healing of lacerated chicken flexor tendon in vivo. <i>Acta Biomaterialia</i> , 2017 , 63, 200-209	10.8	18
83	Raman spectral markers of collagen denaturation and hydration in human cortical bone tissue are affected by radiation sterilization and high cycle fatigue damage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 75, 314-321	4.1	18
82	Effect of actuating cell source on locomotion of organic living machines with electrocompacted collagen skeleton. <i>Bioinspiration and Biomimetics</i> , 2016 , 11, 036012	2.6	18
81	A customized Raman system for point-of-care detection of arthropathic crystals in the synovial fluid. <i>Analyst, The</i> , 2014 , 139, 823-30	5	17
80	A scaffold-free multicellular three-dimensional in vitro model of osteogenesis. <i>Calcified Tissue International</i> , 2011 , 88, 388-401	3.9	16
79	Fracture mechanics of cortical bone tissue: a hierarchical perspective. <i>Critical Reviews in Biomedical Engineering</i> , 2004 , 32, 379-426	1.1	16
78	Microdamage induced calcium efflux from bone matrix activates intracellular calcium signaling in osteoblasts via L-type and T-type voltage-gated calcium channels. <i>Bone</i> , 2015 , 76, 88-96	4.7	15
77	Interrelationships between electrical, mechanical and hydration properties of cortical bone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 77, 12-23	4.1	15
76	Osteoblasts detect pericellular calcium concentration increase via neomycin-sensitive voltage gated calcium channels. <i>Bone</i> , 2012 , 51, 860-7	4.7	15

75	A multiscale and multiphysics model of strain development in a 1.5 T MRI magnet designed with 36 filament composite MgB2superconducting wire. <i>Superconductor Science and Technology</i> , 2016 , 29, 055	00381	15
74	Scalable in-hospital decontamination of N95 filtering face-piece respirator with a peracetic acid room disinfection system. <i>Infection Control and Hospital Epidemiology</i> , 2021 , 42, 678-687	2	15
73	Heparinized collagen sutures for sustained delivery of PDGF-BB: Delivery profile and effects on tendon-derived cells In-Vitro. <i>Acta Biomaterialia</i> , 2016 , 41, 100-9	10.8	14
72	Sporicidal efficacy of genipin: a potential theoretical alternative for biomaterial and tissue graft sterilization. <i>Cell and Tissue Banking</i> , 2013 , 14, 381-93	2.2	14
71	Ossifying bone marrow explant culture as a three-dimensional mechanoresponsive in vitro model of osteogenesis. <i>Tissue Engineering - Part A</i> , 2011 , 17, 417-28	3.9	14
70	Spectroscopic visualization of nanoscale deformation in bone: interaction of light with partially disordered nanostructure. <i>Journal of Biomedical Optics</i> , 2010 , 15, 060503	3.5	14
69	Radioprotectant and radiosensitizer effects on sterility of gamma-irradiated bone. <i>Clinical Orthopaedics and Related Research</i> , 2008 , 466, 1796-803	2.2	14
68	Synthesis and Fabrication of Nanocomposite Fibers of Collagen-Cellulose Nanocrystals by Coelectrocompaction. <i>Biomacromolecules</i> , 2017 , 18, 1259-1267	6.9	13
67	Computer aided biomanufacturing of mechanically robust pure collagen meshes with controlled macroporosity. <i>Biofabrication</i> , 2015 , 7, 035005	10.5	13
66	Depth-dependent shear behavior of bovine articular cartilage: relationship to structure. <i>Journal of Anatomy</i> , 2014 , 225, 519-26	2.9	13
65	Effects of losartan treatment on the physicochemical properties of diabetic rat bone. <i>Journal of Bone and Mineral Metabolism</i> , 2017 , 35, 161-170	2.9	12
64	A fatigue loading model for investigation of iatrogenic subtrochanteric fractures of the femur. <i>Clinical Biomechanics</i> , 2013 , 28, 981-7	2.2	12
63	Kinesin and Dynein Mechanics: Measurement Methods and Research Applications. <i>Journal of Biomechanical Engineering</i> , 2018 , 140,	2.1	11
62	Novel mechanical bioreactor for concomitant fluid shear stress and substrate strain. <i>Journal of Biomechanics</i> , 2012 , 45, 1323-7	2.9	11
61	Assessment of mineral density and atomic content of fracture callus by quantitative computerized tomography. <i>Journal of Orthopaedic Science</i> , 2000 , 5, 248-55	1.6	11
60	Measurement of J-integral in CAD/CAM dental ceramics and composite resin by digital image correlation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 62, 240-246	4.1	10
59	Effects of different lasers on organic/inorganic ratio of radicular dentin. <i>Lasers in Medical Science</i> , 2016 , 31, 415-20	3.1	10
58	Shortwave-infrared Raman spectroscopic classification of water fractions in articular cartilage ex vivo. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-11	3.5	10

57	Aplysia Californica as a Novel Source of Material for Biohybrid Robots and Organic Machines. Lecture Notes in Computer Science, 2016 , 365-374	0.9	10
56	Characterization of a reproducible model of fracture healing in mice using an open femoral osteotomy. <i>Bone Reports</i> , 2020 , 12, 100250	2.6	9
55	In vivo biocompatibility and time-dependent changes in mechanical properties of woven collagen meshes: A comparison to xenograft and synthetic mid-urethral sling materials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 479-489	3.5	9
54	The morphological, material-level, and ash properties of turkey femurs from 3 different genetic strains during production. <i>Poultry Science</i> , 2012 , 91, 2736-46	3.9	9
53	Raman spectroscopic investigation of peptide-glycosaminoglycan interactions. <i>Applied Spectroscopy</i> , 2009 , 63, 636-41	3.1	9
52	Changes in Cortical Bone Mineral and Microstructure with Aging and Osteoporosis. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2012 , 105-131	0.5	8
51	3D-Printed Biohybrid Robots Powered by Neuromuscular Tissue Circuits from Aplysia californica. <i>Lecture Notes in Computer Science</i> , 2017 , 475-486	0.9	8
50	Activation of intracellular calcium signaling in osteoblasts colocalizes with the formation of post-yield diffuse microdamage in bone matrix. <i>BoneKEy Reports</i> , 2016 , 5, 778		8
49	A hybrid vascular graft harnessing the superior mechanical properties of synthetic fibers and the biological performance of collagen filaments. <i>Materials Science and Engineering C</i> , 2021 , 118, 111418	8.3	8
48	Effects of polyelectrolytic peptides on the quality of mineral crystals grown in vitro. <i>Journal of Bone and Mineral Metabolism</i> , 2008 , 26, 569-75	2.9	7
47	Effect of different adhesive strategies on microtensile bond strength of computer aided design/computer aided manufacturing blocks bonded to dentin. <i>Dental Research Journal</i> , 2016 , 13, 1176	- 23 8	7
46	Evaluation of mineral content in healthy permanent human enamel by Raman spectroscopy. Journal of Clinical and Experimental Dentistry, 2016 , 8, e546-e549	1.4	7
45	Microbially-derived nanofibrous cellulose polymer for connective tissue regeneration. <i>Materials Science and Engineering C</i> , 2019 , 99, 96-102	8.3	6
44	Effect of laser activated bleaching on the chemical stability and morphology of intracoronal dentin. <i>Archives of Oral Biology</i> , 2018 , 86, 40-45	2.8	6
43	Raman imaging for quantification of the volume fraction of biodegradable polymers in histological preparations. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 82, 611-7	5.4	6
42	Effect of storage and aging conditions on the flexural strength and flexural modulus of CAD/CAM materials. <i>Dental Materials Journal</i> , 2019 , 38, 264-270	2.5	6
41	Direct, Transfer-Free Growth of Large-Area Hexagonal Boron Nitride Films by Plasma-Enhanced Chemical Film Conversion (PECFC) of Printable, Solution-Processed Ammonia Borane. <i>ACS Applied Materials & Discourse & Discourse Materials & Discourse & D</i>	9.5	6
40	Mechanical Analysis of MgB2 Based Full Body MRI Coils Under Different Winding Conditions. <i>IEEE Transactions on Applied Superconductivity</i> , 2017 , 27, 1-5	1.8	5

39	An experimental model to investigate initial tracheal anastomosis strength. <i>Laryngoscope</i> , 2010 , 120, 1125-8	3.6	5
38	Optimization of the mineral content in polymeric gels: The effect of calcium to phosphate molar ratio. <i>Journal of Crystal Growth</i> , 2005 , 280, 587-593	1.6	5
37	Raman Biomarkers Are Associated with Cyclic Fatigue Life of Human Allograft Cortical Bone. Journal of Bone and Joint Surgery - Series A, 2019 , 101, e85	5.6	5
36	Genipin guides and sustains the polarization of macrophages to the pro-regenerative M2 subtype via activation of the pSTAT6-PPAR-gamma pathway. <i>Acta Biomaterialia</i> , 2021 , 131, 198-210	10.8	5
35	Effect of thermal cycling on fracture toughness of CAD/CAM materials. <i>American Journal of Dentistry</i> , 2018 , 31, 205-210	1.3	5
34	Genipin as a sporicidal agent for the treatment of cortical bone allografts. <i>Journal of Biomaterials Applications</i> , 2014 , 28, 1336-42	2.9	4
33	Femoral latrogenic Subtrochanteric Fatigue Fracture Risk is not Increased by Placing Drill Holes Below the Level of the Lesser Trochanter. <i>Iowa orthopaedic journal, The</i> , 2017 , 37, 23-28	1.1	4
32	Fabrication of Electrocompacted Aligned Collagen Morphs for Cardiomyocyte Powered Living Machines. <i>Lecture Notes in Computer Science</i> , 2015 , 429-440	0.9	4
31	Controlled mercerization of bacterial cellulose provides tunability of modulus and ductility over two orders of magnitude. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 90, 530-537	4.1	4
30	Repetitive short-span application of extracellular calcium is osteopromotive to osteoprogenitor cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e1349-e1359	4.4	3
29	Surface strain distribution of orthodontic miniscrews under load. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2016 , 150, 444-50	2.1	3
28	Simulating muscular thin films using thermal contraction capabilities in finite element analysis tools. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 63, 326-336	4.1	3
27	Immune and inflammatory pathways are involved in inherent bone marrow ossification. <i>Clinical Orthopaedics and Related Research</i> , 2012 , 470, 2528-40	2.2	3
26	A portable fiber-optic raman spectrometer concept for evaluation of mineral content within enamel tissue. <i>Journal of Clinical and Experimental Dentistry</i> , 2017 , 9, e238-e241	1.4	3
25	Evaluation of an electrochemically aligned collagen yarn for textile scaffold fabrication. <i>Biomedical Materials (Bristol)</i> , 2021 , 16, 025001	3.5	3
24	Chemical characterization of Maltese-cross birefringent particles in synovial fluid samples collected from symptomatic joints. <i>Joint Bone Spine</i> , 2018 , 85, 501-503	2.9	2
23	Elevated solute transport at sites of diffuse matrix damage in cortical bone: Implications on bone repair. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 692-698	3.8	2
22	Random lasing in bone tissue: potential as novel spectroscopy for dynamical analysis of nanostructures 2010 ,		2

21	Comments on acoustic emission visualization of bone cement fatigue locations. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 59, 398-401		2
20	Mechanical properties and DIC analyses of CAD/CAM materials. <i>Journal of Clinical and Experimental Dentistry</i> , 2016 , 8, e512-e516	1.4	2
19	Fundamentals of Musculoskeletal Biomechanics 2016 , 15-36		2
18	Raman spectroscopy-based water measurements identify the origin of MRI T2 signal in human articular cartilage zones and predict histopathologic score. <i>Journal of Biophotonics</i> , 2021 , e202100212	3.1	1
17	Volumetric MicroCT Intensity Histograms of Fatty Infiltration Correlate with the Mechanical Strength of Rotator Cuff Repairs: An Ex Vivo Rabbit Model. <i>Clinical Orthopaedics and Related Research</i> , 2021 , 479, 406-418	2.2	1
16	Diffuse microdamage in bone activates anabolic response by osteoblasts via involvement of voltage-gated calcium channels. <i>Journal of Bone and Mineral Metabolism</i> , 2020 , 38, 151-160	2.9	1
15	An Raman study on compositional correlations of lipids and protein with animal tissue hydration. <i>Vibrational Spectroscopy</i> , 2020 , 107, 103022-103022	2.1	0
14	and sp. inhibit osseointegration of orthopaedic implants Infection and Immunity, 2022, iai0066921	3.7	Ο
13	Comparison of diffuse versus inverse spatially-offset Raman spectroscopy modalities for analyte detection through barriers. <i>Vibrational Spectroscopy</i> , 2021 , 113, 103228	2.1	Ο
12	Chondrogenesis of Mesenchymal Stem Cells through Local Release of TGF-B from Heparinized Collagen Biofabric. <i>Tissue Engineering - Part A</i> , 2021 , 27, 1434-1445	3.9	0
11	Heparin-mediated antibiotic delivery from an electrochemically-aligned collagen sheet. <i>Bio-Medical Materials and Engineering</i> , 2021 , 32, 159-170	1	0
10	Piece-By-Piece Shape-Morphing: Engineering Compatible Auxetic and Non-Auxetic Lattices to Improve Soft Robot Performance in Confined Spaces. <i>Advanced Engineering Materials</i> ,2101620	3.5	0
9	Mesenchymal Stem Cell Delivery via Topographically Tenoinductive Collagen Biotextile Enhances Regeneration of Segmental Tendon Defects. <i>American Journal of Sports Medicine</i> ,036354652210979	6.8	0
8	Optical Properties and van der Waals-London Dispersion Interactions in Inorganic and Biomolecular Assemblies. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1619, 1		
7	Improving the Anisotropy of Collagen by Electric Field Increases Its Toughness by Two-Fold 2007 , 1043		
6	Increased Collagen Mineralization Affects the Yield Stress But Not the Yield Strain in Cortical Bone of Rats: Implications for Age-Related Tissue Embrittlement 2002 , 307		
5	Probing Pre-failure Molecular Deformation in Cortical Bone with Fluorescent Dyes. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011 , 333-337	0.3	
4	High Local Deformation Correlates with Optical Property Change in Cortical Bone. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011 , 327-331	0.3	

3	Back-directional Gated Spectroscopic Imaging for Nanoscale Deformation Analysis in Bone. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 151-155	0.3
2	CaractEisation chimique des particules birEringentes en croix de Malte dEectEis dans des Ehantillons de liquide synovial provenant dErticulations symptomatiques. <i>Revue Du Rhumatisme</i> (Edition Francaise), 2019 , 86, 108-111	0.1
1	Comparison of Morphological and Histological Characteristics of Human and Sheep: Sheep as a Potential Model for Testing Midurethral Slings in vivo <i>Urologia Internationalis</i> , 2022 , 1-7	1.9