

Hai Yao

List of Publications by Year in descending order

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71
papers

2,334
citations

304368

22
h-index

223531

46
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71
all docs

71
docs citations

71
times ranked

3091
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering alginate as bioink for bioprinting. <i>Acta Biomaterialia</i> , 2014, 10, 4323-4331.	4.1	434
2	Human cardiac organoids for the modelling of myocardial infarction and drug cardiotoxicity. <i>Nature Biomedical Engineering</i> , 2020, 4, 446-462.	11.6	232
3	New insight into deformation-dependent hydraulic permeability of gels and cartilage, and dynamic behavior of agarose gels in confined compression. <i>Journal of Biomechanics</i> , 2003, 36, 593-598.	0.9	165
4	Effect of Micrometer-Scale Roughness of the Surface of Ti6Al4V Pedicle Screws in Vitro and in Vivo. <i>Journal of Bone and Joint Surgery - Series A</i> , 2008, 90, 2485-2498.	1.4	133
5	Exploiting endogenous fibrocartilage stem cells to regenerate cartilage and repair joint injury. <i>Nature Communications</i> , 2016, 7, 13073.	5.8	124
6	Diffusivity of Ions in Agarose Gels and Intervertebral Disc: Effect of Porosity. <i>Annals of Biomedical Engineering</i> , 2004, 32, 1710-1717.	1.3	101
7	3D Printing for Tissue Engineering. <i>Israel Journal of Chemistry</i> , 2013, 53, 805-814.	1.0	68
8	Effects of Swelling Pressure and Hydraulic Permeability on Dynamic Compressive Behavior of Lumbar Annulus Fibrosus. <i>Annals of Biomedical Engineering</i> , 2002, 30, 1234-1241.	1.3	67
9	Mechanobehavior and Ontogenesis of the Temporomandibular Joint. <i>Journal of Dental Research</i> , 2018, 97, 1185-1192.	2.5	63
10	Effects of Hydration and Fixed Charge Density on Fluid Transport in Charged Hydrated Soft Tissues. <i>Annals of Biomedical Engineering</i> , 2003, 31, 1162-1170.	1.3	58
11	Parenchymal and stromal tissue regeneration of tooth organ by pivotal signals reinstated in decellularized matrix. <i>Nature Materials</i> , 2019, 18, 627-637.	13.3	53
12	Allogeneic Heart Valve Storage Above the Glass Transition at $\sim 80^{\circ}\text{C}$. <i>Annals of Thoracic Surgery</i> , 2011, 91, 1829-1835.	0.7	48
13	Three-dimensional inhomogeneous triphasic finite-element analysis of physical signals and solute transport in human intervertebral disc under axial compression. <i>Journal of Biomechanics</i> , 2007, 40, 2071-2077.	0.9	45
14	3D Printing for Tissue Engineering. <i>Israel Journal of Chemistry</i> , 2013, 53, 805-814.	1.0	42
15	The region-dependent biphasic viscoelastic properties of human temporomandibular joint discs under confined compression. <i>Journal of Biomechanics</i> , 2010, 43, 1316-1321.	0.9	37
16	Convection and Diffusion in Charged Hydrated Soft Tissues: A Mixture Theory Approach. <i>Biomechanics and Modeling in Mechanobiology</i> , 2007, 6, 63-72.	1.4	35
17	Electrical Conductivity of Lumbar Anulus Fibrosis: Effects of Porosity and Fixed Charge Density. <i>Spine</i> , 2002, 27, 2390-2395.	1.0	34
18	Region and strain-dependent diffusivities of glucose and lactate in healthy human cartilage endplate. <i>Journal of Biomechanics</i> , 2016, 49, 2756-2762.	0.9	32

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19	Anisotropic Ion Diffusivity in Intervertebral Disc: An Electrical Conductivity Approach. <i>Spine</i> , 2006, 31, 2783-2789.	1.0	29
20	Relationship between anisotropic diffusion properties and tissue morphology in porcine TMJ disc. <i>Osteoarthritis and Cartilage</i> , 2013, 21, 625-633.	0.6	29
21	Physical Signals and Solute Transport in Cartilage Under Dynamic Unconfined Compression: Finite Element Analysis. <i>Annals of Biomedical Engineering</i> , 2004, 32, 380-390.	1.3	27
22	Physical signals and solute transport in human intervertebral disc during compressive stress relaxation: 3D finite element analysis. <i>Biorheology</i> , 2006, 43, 323-35.	1.2	27
23	Tensile biomechanical properties of human temporomandibular joint disc: Effects of direction, region and sex. <i>Journal of Biomechanics</i> , 2016, 49, 3762-3769.	0.9	25
24	Regional cell density distribution and oxygen consumption rates in porcine TMJ discs: an explant study. <i>Osteoarthritis and Cartilage</i> , 2011, 19, 911-918.	0.6	22
25	The effects of oxygen level and glucose concentration on the metabolism of porcine TMJ disc cells. <i>Osteoarthritis and Cartilage</i> , 2015, 23, 1790-1796.	0.6	22
26	Anisotropic Solute Diffusion Tensor in Porcine TMJ Discs Measured by FRAP with Spatial Fourier Analysis. <i>Annals of Biomedical Engineering</i> , 2010, 38, 3398-3408.	1.3	20
27	Engineering a Chemically Defined Hydrogel Bioink for Direct Bioprinting of Microvasculature. <i>Biomacromolecules</i> , 2021, 22, 275-288.	2.6	20
28	Effect of Mechanical Loading on Electrical Conductivity in Porcine TMJ Discs. <i>Journal of Dental Research</i> , 2011, 90, 1216-1220.	2.5	19
29	Evidence of vasculature and chondrocyte to osteoblast transdifferentiation in craniofacial synovial joints: Implications for osteoarthritis diagnosis and therapy. <i>FASEB Journal</i> , 2020, 34, 4445-4461.	0.2	18
30	Effect of Mechanical Strain on Solute Diffusion in Human TMJ Discs: An Electrical Conductivity Study. <i>Annals of Biomedical Engineering</i> , 2013, 41, 2349-2357.	1.3	17
31	Decreased Mechanical Strength and Collagen Content in SPARC-Null Periodontal Ligament Is Reversed by Inhibition of Transglutaminase Activity. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 1914-1924.	3.1	16
32	Two-step phase-shifting fluorescence incoherent holographic microscopy. <i>Journal of Biomedical Optics</i> , 2014, 19, 060503.	1.4	14
33	The region-dependent biomechanical and biochemical properties of bovine cartilaginous endplate. <i>Journal of Biomechanics</i> , 2015, 48, 3185-3191.	0.9	14
34	A noninvasive fluorescence imaging-based platform measures 3D anisotropic extracellular diffusion. <i>Nature Communications</i> , 2021, 12, 1913.	5.8	14
35	Effect of cartilage endplate on cell based disc regeneration: a finite element analysis. <i>MCB Molecular and Cellular Biomechanics</i> , 2013, 10, 159-82.	0.3	14
36	Measurement of Three-Dimensional Anisotropic Diffusion by Multiphoton Fluorescence Recovery after Photobleaching. <i>Annals of Biomedical Engineering</i> , 2014, 42, 555-565.	1.3	13

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37	SPARC and the N-propeptide of collagen I influence fibroblast proliferation and collagen assembly in the periodontal ligament. <i>PLoS ONE</i> , 2017, 12, e0173209.	1.1	13
38	Impact of Hypothermia upon Chondrocyte Viability and Cartilage Matrix Permeability after 1 Month of Refrigerated Storage. <i>Transfusion Medicine and Hemotherapy</i> , 2011, 38, 387-392.	0.7	12
39	Structure-Function Relationships of Temporomandibular Retrodiscal Tissue. <i>Journal of Dental Research</i> , 2017, 96, 647-653.	2.5	12
40	Deep learning provides high accuracy in automated chondrocyte viability assessment in articular cartilage using nonlinear optical microscopy. <i>Biomedical Optics Express</i> , 2021, 12, 2759.	1.5	12
41	A pilot study of nocturnal temporalis muscle activity in <scp>TMD</scp> diagnostic groups of women. <i>Journal of Oral Rehabilitation</i> , 2017, 44, 517-525.	1.3	11
42	Effect of Sustained Joint Loading on TMJ Disc Nutrient Environment. <i>Journal of Dental Research</i> , 2019, 98, 888-895.	2.5	11
43	Three-dimensional temporomandibular joint muscle attachment morphometry and its impacts on musculoskeletal modeling. <i>Journal of Biomechanics</i> , 2018, 79, 119-128.	0.9	10
44	Effect of Measurement Technique on TMJ Mandibular Condyle and Articular Disc Morphometry: CBCT, MRI, and Physical Measurements. <i>Journal of Oral and Maxillofacial Surgery</i> , 2019, 77, 42-53.	0.5	10
45	Nonlabeling and quantitative assessment of chondrocyte viability in articular cartilage with intrinsic nonlinear optical signatures. <i>Experimental Biology and Medicine</i> , 2020, 245, 348-359.	1.1	10
46	Quantifying Baseline Fixed Charge Density in Healthy Human Cartilage Endplate. <i>Spine</i> , 2017, 42, E1002-E1009.	1.0	9
47	A review of dental cone-beam CT dose conversion coefficients. <i>Dentomaxillofacial Radiology</i> , 2021, 50, 20200225.	1.3	9
48	Does administering iodine in radiological procedures increase patient doses?. <i>Medical Physics</i> , 2014, 41, 113901.	1.6	7
49	Electrical Conductivity Method to Determine Sexual Dimorphisms in Human Temporomandibular Disc Fixed Charge Density. <i>Annals of Biomedical Engineering</i> , 2018, 46, 310-317.	1.3	7
50	Inhibition of transglutaminase activity in periodontitis rescues periodontal ligament collagen content and architecture. <i>Journal of Periodontal Research</i> , 2020, 55, 107-115.	1.4	7
51	Effects of increased retroversion angle on glenoid baseplate fixation in reverse total shoulder arthroplasty: a finite element analysis. <i>Seminars in Arthroplasty</i> , 2021, 31, 209-216.	0.3	7
52	Depth- and direction-dependent changes in solute transport following cross-linking with riboflavin and UVA light in ex vivo porcine cornea. <i>Experimental Eye Research</i> , 2021, 205, 108498.	1.2	6
53	Hematopoietic Stem Cell-Derived Functional Osteoblasts Exhibit Therapeutic Efficacy in a Murine Model of Osteogenesis Imperfecta. <i>Stem Cells</i> , 2021, 39, 1457-1477.	1.4	6
54	Viscoelastic shear properties of porcine temporomandibular joint disc. <i>Orthodontics and Craniofacial Research</i> , 2015, 18, 156-163.	1.2	5

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55	Fluid pressurization and tractional forces during TMJ disc loading: A biphasic finite element analysis. <i>Orthodontics and Craniofacial Research</i> , 2017, 20, 151-156.	1.2	5
56	Creation of a Porcine Kyphotic Model. <i>Spine Deformity</i> , 2019, 7, 213-219.	0.7	5
57	Selective osteotomy-assisted molar uprighting and simultaneous ridge augmentation for implant site development. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2019, 156, 846-857.	0.8	4
58	Functional Flexion Instability After Rotating-Platform Total Knee Arthroplasty. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, 1694-1702.	1.4	4
59	Sexual dimorphisms in three-dimensional masticatory muscle attachment morphometry regulates temporomandibular joint mechanics. <i>Journal of Biomechanics</i> , 2021, 126, 110623.	0.9	4
60	Comparison and evaluation of biomechanical, electrical, and biological methods for assessment of damage to tissue collagen. <i>Cell and Tissue Banking</i> , 2016, 17, 531-539.	0.5	3
61	Review of Kerma-Area Product and total energy incident on patients in radiography, mammography and CT. <i>Radiation Protection Dosimetry</i> , 2015, 163, 251-260.	0.4	2
62	Temporomandibular Joint Condyleâ€“Disc Morphometric Sexual Dimorphisms Independent of Skull Scaling. <i>Journal of Oral and Maxillofacial Surgery</i> , 2019, 77, 2245-2257.	0.5	2
63	Biomechanical effect of selective osteotomy and corticotomy on orthodontic molar uprighting. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2021, 160, 292-301.	0.8	2
64	Corneal Cross-Linking: Engineering a Predictable Model. <i>Critical Reviews in Biomedical Engineering</i> , 2014, 42, 229-248.	0.5	2
65	Structure-function relationships of TMJ lateral capsule-ligament complex. <i>Journal of Biomechanics</i> , 2022, 130, 110889.	0.9	2
66	Effects of Endplate and Mechanical Loading on Solute Transport in Intervertebral Disc. , 2008, , .		1
67	Fast fluorescence holographic microscopy. , 2014, 8949, .		1
68	The Impact of Heat Treatment on Porcine Heart Valve Leaflets. <i>Cardiovascular Engineering and Technology</i> , 2018, 9, 32-41.	0.7	1
69	Activation of Wnt/ β -catenin signalling and HIF1 α stabilisation alters pluripotency and differentiation/proliferation properties of humanâ€“induced pluripotent stem cells. <i>Biology of the Cell</i> , 2021, 113, 133-145.	0.7	1
70	Mechanical Properties of TMJ Disc Cells Measured by Atomic Force Microscopy. , 2008, , .		0
71	Biphasic Viscoelastic Properties of Human TMJ Disc. , 2008, , .		0