

YaÅar Murat ElÅşin

List of Publications by Year in descending order

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92
papers

2,445
citations

159358

30
h-index

243296

44
g-index

93
all docs

93
docs citations

93
times ranked

3129
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical applications of decellularized extracellular matrices for tissue engineering and regenerative medicine. <i>Biomedical Materials</i> (Bristol), 2016, 11, 022003.	1.7	186
2	Periodontal ligament cellular structures engineered with electrospun poly(DL-lactide-co-glycolide) nanofibrous membrane scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 90A, 186-195.	2.1	86
3	Hepatocyte Attachment on Biodegradable Modified Chitosan Membranes: In Vitro Evaluation for the Development of Liver Organoids. <i>Artificial Organs</i> , 1998, 22, 837-846.	1.0	81
4	Osteogenic Induction of Human Periodontal Ligament Fibroblasts Under Two- and Three-Dimensional Culture Conditions. <i>Tissue Engineering</i> , 2006, 12, 257-266.	4.9	77
5	Encapsulation of urease enzyme in xanthan-alginate spheres. <i>Biomaterials</i> , 1995, 16, 1157-1161.	5.7	69
6	Localized Angiogenesis Induced by Human Vascular Endothelial Growth Factor-Activated PLGA Sponge. <i>Tissue Engineering</i> , 2006, 12, 959-968.	4.9	64
7	Controlled Release of Endothelial Cell Growth Factor from Chitosan-Albumin Microspheres for Localized Angiogenesis: In Vitro and in Vivo Studies. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 1996, 24, 257-271.	0.9	60
8	Xenotransplantation of Fetal Porcine Hepatocytes in Rats Using a Tissue Engineering Approach. <i>Artificial Organs</i> , 1999, 23, 146-152.	1.0	58
9	Nanofibrous silk fibroin/reduced graphene oxide scaffolds for tissue engineering and cell culture applications. <i>International Journal of Biological Macromolecules</i> , 2018, 114, 77-84.	3.6	54
10	Encapsulation and osteoinduction of human periodontal ligament fibroblasts in chitosan-hydroxyapatite microspheres. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 82A, 917-926.	2.1	52
11	Evaluation of a biomimetic poly(μ -caprolactone)/ Ca_3P_2 -tricalcium phosphate multispiral scaffold for bone tissue engineering: in vitro and in vivo studies. <i>Biointerphases</i> , 2014, 9, 029011.	0.6	51
12	Neovascularization by bFGF releasing hyaluronic acid-gelatin microspheres: in vitro and in vivo studies. <i>Growth Factors</i> , 2010, 28, 426-436.	0.5	48
13	Bioethical issues in genome editing by CRISPR-Cas9 technology. <i>Turkish Journal of Biology</i> , 2020, 44, 110-120.	2.1	46
14	Decellularization of bovine small intestinal submucosa and its use for the healing of a critical-sized full-thickness skin defect, alone and in combination with stem cells, in a small rodent model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 1754-1765.	1.3	45
15	Studies on immobilization of urease in gelatin by cross-linking. <i>Biomaterials</i> , 1992, 13, 795-800.	5.7	44
16	Strontium-modified chitosan/montmorillonite composites as bone tissue engineering scaffold. <i>Materials Science and Engineering C</i> , 2018, 89, 8-14.	3.8	44
17	Engineering of Rat Articular Cartilage on Porous Sponges: Effects of TGF- β_1 and Microgravity Bioreactor Culture. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2008, 36, 123-137.	0.9	42
18	Time-Resolved Fluorescence Resonance Energy Transfer [TR-FRET] Assays for Biochemical Processes. <i>Current Pharmaceutical Biotechnology</i> , 2016, 17, 1222-1230.	0.9	41

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19	Proteome Analysis of Rat Bone Marrow Mesenchymal Stem Cell Differentiation. Journal of Proteome Research, 2010, 9, 5217-5227.	1.8	40
20	In vitro cytotoxicity of hydrothermally synthesized ZnO nanoparticles on human periodontal ligament fibroblast and mouse dermal fibroblast cells. Toxicology in Vitro, 2014, 28, 1349-1358.	1.1	39
21	Decellularized biological scaffold and stem cells from autologous human adipose tissue for cartilage tissue engineering. Methods, 2020, 171, 97-107.	1.9	39
22	Evaluation of adenoviral vascular endothelial growth factor-activated chitosan/hydroxyapatite scaffold for engineering vascularized bone tissue using human osteoblasts: In Vitro and In Vivo studies. Journal of Biomaterials Applications, 2014, 29, 748-760.	1.2	38
23	Decellularized bovine small intestinal submucosa-PCL/hydroxyapatite-based multilayer composite scaffold for hard tissue repair. Materials Science and Engineering C, 2019, 94, 788-797.	3.8	38
24	Effect of Osteogenic Induction on the in Vitro Differentiation of Human Embryonic Stem Cells Cocultured With Periodontal Ligament Fibroblasts. Artificial Organs, 2007, 31, 792-800.	1.0	36
25	Evaluation of various block copolymers for micelle formation and brain drug delivery: In Vitro characterization and cellular uptake studies. Journal of Drug Delivery Science and Technology, 2016, 36, 120-129.	1.4	36
26	Decellularized Cell Culture ECMs Act as Cell Differentiation Inducers. Stem Cell Reviews and Reports, 2020, 16, 569-584.	1.7	36
27	In Vitro Osteogenic Differentiation of Rat Mesenchymal Stem Cells in a Microgravity Bioreactor. Journal of Bioactive and Compatible Polymers, 2008, 23, 244-261.	0.8	35
28	Human Embryonic Stem Cell Differentiation on Tissue Engineering Scaffolds: Effects of NGF and Retinoic Acid Induction. Tissue Engineering - Part A, 2008, 14, 955-964.	1.6	32
29	Bacillus sphaericus 2362-calcium alginate microcapsules for mosquito control. Enzyme and Microbial Technology, 1995, 17, 587-591.	1.6	31
30	Functional and Morphological Characteristics of Bovine Adrenal Chromaffin Cells on Macroporous Poly(D,L-lactide-co-glycolide) Scaffolds. Tissue Engineering, 2003, 9, 1047-1056.	4.9	31
31	Stem Cells in Tooth Tissue Regeneration—Challenges and Limitations. Stem Cell Reviews and Reports, 2011, 7, 683-692.	5.6	31
32	Proteome Analysis of Rat Bone Marrow Mesenchymal Stem Cell Subcultures. Journal of Proteome Research, 2009, 8, 2164-2172.	1.8	30
33	A comparative study on the in vitro cytotoxic responses of two mammalian cell types to fullerenes, carbon nanotubes and iron oxide nanoparticles. Drug and Chemical Toxicology, 2017, 40, 215-227.	1.2	30
34	Biodegradation of Chitosan-Tripolyphosphate Beads: In Vitro and In Vivo Studies. Artificial Cells, Blood Substitutes, and Biotechnology, 2006, 34, 263-276.	0.9	29
35	Differentiation of Human Embryonic Stem Cells on Periodontal Ligament Fibroblasts In Vitro. Artificial Organs, 2008, 32, 100-109.	1.0	29
36	Magnetic and electrically conductive silica-coated iron oxide/polyaniline nanocomposites for biomedical applications. Materials Science and Engineering C, 2021, 119, 111600.	3.8	29

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37	Magnetic silk fibroin composite nanofibers for biomedical applications: Fabrication and evaluation of the chemical, thermal, mechanical, and <i>in vitro</i> biological properties. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48040.	1.3	27
38	In Vitro Differentiation and Attachment of Human Embryonic Stem Cells on Periodontal Tooth Root Surfaces. <i>Tissue Engineering - Part A</i> , 2009, 15, 3427-3435.	1.6	26
39	Isolation and Characterization of Mesenchymal Stem Cells. <i>Methods in Molecular Biology</i> , 2014, 1109, 47-63.	0.4	26
40	Macroporous elastic cryogels based on platelet lysate and oxidized dextran as tissue engineering scaffold: In vitro and in vivo evaluations. <i>Materials Science and Engineering C</i> , 2020, 110, 110703.	3.8	24
41	Electrospun Nanofibrous PLGA/Fullerene-C60 Coated Quartz Crystal Microbalance for Real-Time Gluconic Acid Monitoring. <i>IEEE Sensors Journal</i> , 2010, 10, 1342-1348.	2.4	23
42	Therapeutic Applications of Stem Cells and Extracellular Vesicles in Emergency Care: Futuristic Perspectives. <i>Stem Cell Reviews and Reports</i> , 2021, 17, 390-410.	1.7	23
43	Polyester film strips coated with photographic gelatin containing immobilized glucose oxidase hardened by chromium(III) sulphate. <i>Biomaterials</i> , 1992, 13, 156-161.	5.7	22
44	Encapsulation of bone marrow-MSCs in PRP-derived fibrin microbeads and preliminary evaluation in a volumetric muscle loss injury rat model: modular muscle tissue engineering. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019, 47, 10-21.	1.9	22
45	Osteogenic composite nanocoating based on nanohydroxyapatite, strontium ranelate and polycaprolactone for titanium implants. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 1763-1773.	1.7	21
46	Synthesis and characterization of thermosensitive poly(N-vinylcaprolactam)-g-collagen. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2017, 45, 1665-1674.	1.9	20
47	Magneto-sensitive decellularized bone matrix with or without low frequency-pulsed electromagnetic field exposure for the healing of a critical-size bone defect. <i>Materials Science and Engineering C</i> , 2021, 124, 112065.	3.8	19
48	Decellularized liver ECM-based 3D scaffolds: Compositional, physical, chemical, rheological, thermal, mechanical, and in vitro biological evaluations. <i>International Journal of Biological Macromolecules</i> , 2022, 200, 110-123.	3.6	18
49	Stability and controlled release properties of carboxymethylcellulose-encapsulated <i>Bacillus thuringiensis</i> var. <i>israelensis</i> . <i>Pest Management Science</i> , 1995, 45, 351-355.	0.7	17
50	In vitro evaluation of encapsulated primary rat hepatocytes pre- and post-cryopreservation at $\sim 80^{\circ}\text{C}$ and in liquid nitrogen. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2015, 43, 50-61.	1.9	17
51	Clinical Applications of Injectable Biomaterials. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1077, 163-182.	0.8	17
52	Development of a multicellular 3D-bioprinted microtissue model of human periodontal ligament-alveolar bone biointerface: Towards a pre-clinical model of periodontal diseases and personalized periodontal tissue engineering. <i>Genes and Diseases</i> , 2022, 9, 1008-1023.	1.5	17
53	Ectopic osteogenic tissue formation by MC3T3-E1 cell-laden chitosan/hydroxyapatite composite scaffold. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2016, 44, 1440-1447.	1.9	16
54	Extracellular Matrix and Regenerative Therapies from the Cardiac Perspective. <i>Stem Cell Reviews and Reports</i> , 2016, 12, 202-213.	5.6	16

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55	Intraspinal transplantation of autologous neurogenically-induced bone marrow-derived mesenchymal stem cells in treatment of paraplegic dogs without deep pain perception secondary to intervertebral disk disease. <i>Turkish Neurosurgery</i> , 2015, 25, 625-32.	0.1	16
56	Osteogenic differentiation of encapsulated rat mesenchymal stem cells inside a rotating microgravity bioreactor: in vitro and in vivo evaluation. <i>Cytotechnology</i> , 2018, 70, 1375-1388.	0.7	15
57	Silica coating of the pore walls of a microporous polycaprolactone membrane to be used in bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3229-3236.	2.1	14
58	Osteogenic differentiation of mesenchymal stem cells using hybrid nanofibers with different configurations and dimensionality. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2065-2074.	2.1	14
59	Methacrylic acid-acrylamide-g-poly(ethyleneterephthalate) fibres for urea hydrolysis. <i>Journal of Chemical Technology and Biotechnology</i> , 1995, 63, 174-180.	1.6	13
60	Acrylamide grafted poly(ethylene terephthalate) fibers activated by glutaraldehyde as support for urease. <i>Applied Biochemistry and Biotechnology</i> , 1996, 60, 19-32.	1.4	13
61	The use of autologous neurogenically-induced bone marrow-derived mesenchymal stem cells for the treatment of paraplegic dogs without nociception due to spinal trauma. <i>Journal of Veterinary Medical Science</i> , 2016, 78, 1465-1473.	0.3	13
62	Differential gene expression profiling of human adipose stem cells differentiating into smooth muscle-like cells by TGF β 1/BMP4. <i>Experimental Cell Research</i> , 2017, 352, 207-217.	1.2	13
63	Intrinsically Conductive Polymer Nanocomposites for Cellular Applications. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1078, 135-153.	0.8	13
64	Evaluation of Modified CMC and CMC-PVA as Miscible Polymer Blend Membranes for Hepatocytes. <i>Macromolecular Bioscience</i> , 2007, 7, 681-689.	2.1	12
65	Mesenchymal Stem Cells for Coronavirus (COVID-19)-Induced Pneumonia: Revisiting the Paracrine Hypothesis with New Hopes?. , 2020, 11, 477.		12
66	Topical use of liposomal copper palmitate formulation blocks porphyrin-induced photosensitivity in rats. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2005, 80, 107-114.	1.7	11
67	Synthesis and Characterization of Thermosensitive Poly(<i>N</i> -Vinyl Caprolactam)-Grafted-Aminated Alginate Hydrogels. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 1900412.	1.1	11
68	Translational Applications of Tissue Engineering in Cardiovascular Medicine. <i>Current Pharmaceutical Design</i> , 2017, 23, 903-914.	0.9	11
69	Control of mosquito larvae by encapsulated pathogen <i>Bacillus thuringiensis</i> var. <i>israelensis</i> . <i>Journal of Microencapsulation</i> , 1995, 12, 515-523.	1.2	10
70	Autologous protein-based scaffold composed of platelet lysate and aminated hyaluronic acid. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 127.	1.7	10
71	Evaluation of the stability of standard reference genes of adipose-derived mesenchymal stem cells during in vitro proliferation and differentiation. <i>Molecular Biology Reports</i> , 2020, 47, 2109-2122.	1.0	10
72	Real-time monitoring of mesenchymal stem cell responses to biomaterial surfaces and to a model drug by using quartz crystal microbalance. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2016, 44, 1722-1732.	1.9	9

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73	Investigations on clonazepam-loaded polymeric micelle-like nanoparticles for safe drug administration during pregnancy. <i>Journal of Microencapsulation</i> , 2018, 35, 149-164.	1.2	9
74	3D Bioprinting of Tissue Models with Customized Bioinks. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1249, 67-84.	0.8	9
75	Mesenchymal stem cell transplantation in polytrauma: Evaluation of bone and liver healing response in an experimental rat model. <i>European Journal of Trauma and Emergency Surgery</i> , 2020, 46, 53-64.	0.8	8
76	Decellularized bSIS-ECM as a Regenerative Biomaterial for Skin Wound Repair. <i>Methods in Molecular Biology</i> , 2018, 1879, 175-185.	0.4	7
77	Functions of Mesenchymal Stem Cells in Cardiac Repair. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1312, 39-50.	0.8	7
78	Construction of micro-grooved PCL/nanohydroxyapatite membranes by non-solvent induced phase separation method and its evaluation for use as a substrate for human periodontal ligament fibroblasts. <i>Chemical Engineering Science</i> , 2022, 248, 117120.	1.9	7
79	Immobilization of Urease into Carboxymethylcellulose - Gelatine System. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1992, 29, 251-265.	1.2	6
80	Differentiation of Human Embryonic Stem Cells on Periodontal Ligament Fibroblasts. <i>Methods in Molecular Biology</i> , 2014, 1307, 223-235.	0.4	5
81	Decellularization of Bovine Small Intestinal Submucosa. <i>Methods in Molecular Biology</i> , 2017, 1577, 129-138.	0.4	5
82	Macro- and microporous polycaprolactone/duckâ€™s feet collagen scaffold fabricated by combining facile phase separation and particulate leaching techniques to enhance osteogenesis for bone tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2022, 33, 1025-1042.	1.9	5
83	Preliminary assessment of an injectable extracellular matrix from decellularized bovine myocardial tissue. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2021, 76, 491-501.	0.6	4
84	Biomimetic 3D-Bone Tissue Model. <i>Methods in Molecular Biology</i> , 2021, 2273, 239-250.	0.4	4
85	Assessment of dopamine-conjugated decellularized bovine tendon extracellular matrix as a bioadhesive. <i>Materials Today Communications</i> , 2022, , 103634.	0.9	4
86	Mesenchymal Stem Cell Infusion in Haploidentical Hematopoietic Stem Cell Transplantation in Patients with Hematological Malignancies. <i>Biology of Blood and Marrow Transplantation</i> , 2018, 24, S178-S179.	2.0	2
87	Selection of Suitable Reference Genes for Quantitative Real-Time PCR Normalization in Human Stem Cell Research. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1119, 151-168.	0.8	2
88	Fabrication and Molecular Modeling of Navette-Shaped Fullerene Nanorods Using Tobacco Mosaic Virus as a Nanotemplate. <i>Molecular Biotechnology</i> , 2022, 64, 681-692.	1.3	2
89	Rat articular cartilage engineering using alginate fibers under microgravity conditions. , 2009, , .		0
90	Subarachnoid transplantation of autologous neurogenically induced bone marrow derived mesenchymal stem cells for the treatment of fibrocartilaginous embolic myelopathy in two dogs. <i>Turkish Journal of Veterinary and Animal Sciences</i> , 2016, 40, 120-123.	0.2	0

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91	Baculoviral vector loaded mesenchymal stem cells as efficient gene therapy tools for cancer treatment. Turkish Journal of Biology, 2016, 40, 1121-1128.	2.1	0
92	Mesenchymal stem cell directed baculoviral gene therapy of colon cancer.. Journal of Clinical Oncology, 2016, 34, e14573-e14573.	0.8	0