

Vasif Hasirci

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136
papers

4,014
citations

33
h-index

59
g-index

145
ext. papers

4,771
ext. citations

5.4
avg, IF

5.94
L-index

#	Paper	IF	Citations
136	PCL and PCL-based materials in biomedical applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018 , 29, 863-893	3.5	321
135	Incorporation of a sequential BMP-2/BMP-7 delivery system into chitosan-based scaffolds for bone tissue engineering. <i>Biomaterials</i> , 2009 , 30, 3551-9	15.6	273
134	Development of a UV crosslinked biodegradable hydrogel containing adipose derived stem cells to promote vascularization for skin wounds and tissue engineering. <i>Biomaterials</i> , 2017 , 129, 188-198	15.6	217
133	3D and 4D Printing of Polymers for Tissue Engineering Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 164	5.8	162
132	Bone tissue engineering on patterned collagen films: an in vitro study. <i>Biomaterials</i> , 2005 , 26, 1977-86	15.6	140
131	Micro and Nanofabrication methods to control cell-substrate interactions and cell behavior: A review from the tissue engineering perspective. <i>Bioactive Materials</i> , 2018 , 3, 355-369	16.7	130
130	Retinal pigment epithelium cell culture on surface modified poly(hydroxybutyrate-co-hydroxyvalerate) thin films. <i>Biomaterials</i> , 2003 , 24, 4573-83	15.6	107
129	Versatility of biodegradable biopolymers: degradability and an in vivo application. <i>Journal of Biotechnology</i> , 2001 , 86, 135-50	3.7	107
128	Peripheral nerve conduits: technology update. <i>Medical Devices: Evidence and Research</i> , 2014 , 7, 405-24	1.5	96
127	Microstructured Surfaces Cause Severe but Non-Detrimental Deformation of the Cell Nucleus. <i>Advanced Materials</i> , 2009 , 21, 3586-3590	24	90
126	3D Plotted PCL Scaffolds for Stem Cell Based Bone Tissue Engineering. <i>Macromolecular Symposia</i> , 2008 , 269, 92-99	0.8	85
125	Expression of liver-specific functions by rat hepatocytes seeded in treated poly(lactic-co-glycolic) acid biodegradable foams. <i>Tissue Engineering</i> , 2001 , 7, 385-94		81
124	Sulbactam-cefoperazone polyhydroxybutyrate-co-hydroxyvalerate (PHBV) local antibiotic delivery system: in vivo effectiveness and biocompatibility in the treatment of implant-related experimental osteomyelitis. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 46, 494-503		79
123	Development of a reconstructed cornea from collagen-chondroitin sulfate foams and human cell cultures 2008 , 49, 5325-31		77
122	Nanobiomaterials: a review of the existing science and technology, and new approaches. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006 , 17, 1241-68	3.5	70
121	Nanopatterning of collagen scaffolds improve the mechanical properties of tissue engineered vascular grafts. <i>Biomacromolecules</i> , 2009 , 10, 814-21	6.9	62
120	Tissue engineering of bone on micropatterned biodegradable polyester films. <i>Biomaterials</i> , 2006 , 27, 885-95	15.6	59

119	Immobilization of glucose oxidase: a comparison of entrapment and covalent bonding. <i>Journal of Chemical Technology and Biotechnology</i> , 1993 , 58, 287-92	3.5	58
118	Poly(3-hydroxybutyric acid-co-3-hydroxyvaleric acid) based tissue engineering matrices. <i>Journal of Materials Science: Materials in Medicine</i> , 2003 , 14, 121-6	4.5	55
117	3D printed poly(ϵ -caprolactone) scaffolds modified with hydroxyapatite and poly(propylene fumarate) and their effects on the healing of rabbit femur defects. <i>Biomaterials Science</i> , 2017 , 5, 2144-2158	7.4	54
116	A 3D printed PCL/hydrogel construct with zone-specific biochemical composition mimicking that of the meniscus. <i>Biofabrication</i> , 2019 , 11, 025002	10.5	52
115	Mimicking corneal stroma using keratocyte-loaded photopolymerizable methacrylated gelatin hydrogels. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e1899-e1910	4.4	48
114	In vivo response to biodegradable controlled antibiotic release systems. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 55, 217-228		47
113	Effect of human corneal keratocytes and retinal pigment epithelial cells on the mechanical properties of micropatterned collagen films. <i>Biomaterials</i> , 2007 , 28, 4303-10	15.6	46
112	EDC/NHS cross-linked collagen foams as scaffolds for artificial corneal stroma. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007 , 18, 1527-1545	3.5	45
111	Multiwalled CNT-pHEMA composite conduit for peripheral nerve repair. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 828-41	5.4	44
110	A smart bilayer scaffold of elastin-like recombinamer and collagen for soft tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 1541-54	4.5	44
109	Novel surface patterning approaches for tissue engineering and their effect on cell behavior. <i>Nanomedicine</i> , 2006 , 1, 73-90	5.6	44
108	Topographically induced self-deformation of the nuclei of cells: dependence on cell type and proposed mechanisms. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 939-46	4.5	41
107	Chemical and topographical modification of PHBV surface to promote osteoblast alignment and confinement. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 85, 1001-10	5.4	40
106	Cell loaded 3D bioprinted GelMA hydrogels for corneal stroma engineering. <i>Biomaterials Science</i> , 2019 , 8, 438-449	7.4	40
105	Oxygen plasma modification of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) film surfaces for tissue engineering purposes. <i>Journal of Applied Polymer Science</i> , 2003 , 87, 1285-1289	2.9	37
104	A collagen-based corneal stroma substitute with micro-designed architecture. <i>Biomaterials Science</i> , 2014 , 2, 318-29	7.4	34
103	Surface Modification of Polyurethanes with Covalent Immobilization of Heparin. <i>Macromolecular Symposia</i> , 2008 , 269, 145-153	0.8	33
102	Hydrogels of agarose, and methacrylated gelatin and hyaluronic acid are more supportive for in vitro meniscus regeneration than three dimensional printed polycaprolactone scaffolds. <i>International Journal of Biological Macromolecules</i> , 2019 , 122, 1152-1162	7.9	32

101	Microfibrous scaffolds from poly(l-lactide-co-ε-caprolactone) blended with xeno-free collagen/hyaluronic acid for improvement of vascularization in tissue engineering applications. <i>Materials Science and Engineering C</i> , 2019 , 97, 31-44	8.3	32
100	Tissue engineering of oral mucosa: a shared concept with skin. <i>Journal of Artificial Organs</i> , 2015 , 18, 8-19	1.8	31
99	The influence of elastin-like recombinant polymer on the self-renewing potential of a 3D tissue equivalent derived from human lamina propria fibroblasts and oral epithelial cells. <i>Biomaterials</i> , 2011 , 32, 5756-64	15.6	31
98	Dye derived and metal incorporated affinity poly(2-hydroxyethyl methacrylate) membranes for use in enzyme immobilization. <i>Polymer International</i> , 1998 , 46, 345-352	3.3	31
97	Plasma Protein Adsorption and Platelet Adhesion on Heparin-Immobilized Polyurethane Films. <i>Journal of Bioactive and Compatible Polymers</i> , 2008 , 23, 505-519	2	31
96	Influence of Oxygen Plasma Modification on Surface Free Energy of PMMA Films and Cell Attachment. <i>Macromolecular Symposia</i> , 2008 , 269, 128-137	0.8	30
95	A novel GelMA-pHEMA hydrogel nerve guide for the treatment of peripheral nerve damages. <i>International Journal of Biological Macromolecules</i> , 2019 , 121, 699-706	7.9	29
94	Construction of a collagen-based, split-thickness cornea substitute. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014 , 25, 1110-32	3.5	28
93	Effect of oxygen plasma on surface properties and biocompatibility of PLGA films. <i>Surface and Interface Analysis</i> , 2010 , 42, 486-491	1.5	28
92	Influence of co-culture on osteogenesis and angiogenesis of bone marrow mesenchymal stem cells and aortic endothelial cells. <i>Microvascular Research</i> , 2016 , 108, 1-9	3.7	27
91	Construction of a patterned hydrogel-fibrous mat bilayer structure to mimic choroid and Bruch's membrane layers of retina. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 2166-77	5.4	25
90	A high throughput approach for analysis of cell nuclear deformability at single cell level. <i>Scientific Reports</i> , 2016 , 6, 36917	4.9	25
89	In vitro and transdermal penetration of PHBV micro/nanoparticles. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 1471-81	4.5	23
88	Quantification of Type, Timing, and Extent of Cell Body and Nucleus Deformations Caused by the Dimensions and Hydrophilicity of Square Prism Micropillars. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2972-2982	10.1	22
87	Protein-based materials in load-bearing tissue-engineering applications. <i>Regenerative Medicine</i> , 2014 , 9, 687-701	2.5	22
86	Influence of keratocytes and retinal pigment epithelial cells on the mechanical properties of polyester-based tissue engineering micropatterned films. <i>Biomaterials</i> , 2007 , 28, 3489-96	15.6	22
85	Covalent immobilization of <i>Aspergillus niger</i> on pHEMA membrane: application to continuous flow reactors. <i>Journal of Chemical Technology and Biotechnology</i> , 1993 , 58, 281-5	3.5	22
84	Controlled release of aldicarb from carboxymethyl cellulose microspheres: in vitro and field applications. <i>Pest Management Science</i> , 1999 , 55, 1194-1202		22

83	Cornea engineering on polyester carriers. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 79, 104-13	5.4	21
82	A bilayer scaffold prepared from collagen and carboxymethyl cellulose for skin tissue engineering applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018 , 29, 1764-1784	3.5	19
81	Anatomical meniscus construct with zone specific biochemical composition and structural organization. <i>Biomaterials</i> , 2019 , 218, 119361	15.6	19
80	Chitosan-based wet-spun scaffolds for bioactive agent delivery. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 3759-3769	2.9	19
79	PCL-TCP wet spun scaffolds carrying antibiotic-loaded microspheres for bone tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018 , 29, 805-824	3.5	18
78	Understanding the cell behavior on nano-/micro-patterned surfaces. <i>Nanomedicine</i> , 2012 , 7, 1375-89	5.6	18
77	Osteogenic differentiation of adipose derived stem cells on high and low aspect ratio micropatterns. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015 , 26, 1402-24	3.5	17
76	Comparison of β -galactosidase immobilization by entrapment in and adsorption on poly(2-hydroxyethylmethacrylate) membranes. <i>Polymer International</i> , 1997 , 44, 530-536	3.3	17
75	Human adipose derived stem cells are superior to human osteoblasts (HOB) in bone tissue engineering on a collagen-fibroin-ELR blend. <i>Bioactive Materials</i> , 2017 , 2, 71-81	16.7	16
74	Effects of microarchitecture and mechanical properties of 3D microporous PLLA-PLGA scaffolds on fibrochondrocyte and L929 fibroblast behavior. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 035005	3.5	16
73	Formation of supramolecular structures by negatively charged liposomes in the presence of nucleic acids and divalent cations. <i>Drug Delivery</i> , 1998 , 5, 135-41	7	16
72	pH-responsive nano carriers for doxorubicin delivery. <i>Pharmaceutical Research</i> , 2015 , 32, 1249-63	4.5	15
71	Low-molecular-weight heparin-conjugated liposomes with improved stability and hemocompatibility. <i>Drug Delivery</i> , 1998 , 5, 257-64	7	15
70	Development of PEI-RANK siRNA Complex Loaded PLGA Nanocapsules for the Treatment of Osteoporosis. <i>Tissue Engineering - Part A</i> , 2019 , 25, 34-43	3.9	15
69	Square prism micropillars on poly(methyl methacrylate) surfaces modulate the morphology and differentiation of human dental pulp mesenchymal stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 178, 44-55	6	14
68	PHBV wet-spun scaffold coated with ELR-REDV improves vascularization for bone tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 055010	3.5	14
67	Construction and in vitro testing of a multilayered, tissue-engineered meniscus. <i>Journal of Bioactive and Compatible Polymers</i> , 2014 , 29, 235-253	2	14
66	Construction of a PLGA based, targeted siRNA delivery system for treatment of osteoporosis. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017 , 28, 1859-1873	3.5	13

65	A multilayer tissue engineered meniscus substitute. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 1195-209	4.5	12
64	Poly(ε-caprolactone) composites containing gentamicin-loaded β-tricalcium phosphate/gelatin microspheres as bone tissue supports. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 2132-2139	2.9	12
63	Hydrogels in Regenerative Medicine 2016 , 1-52		11
62	Cell behavior on the alginate-coated PLLA/PLGA scaffolds. <i>International Journal of Biological Macromolecules</i> , 2019 , 124, 444-450	7.9	11
61	Methacrylated gelatin hydrogels as corneal stroma substitutes: study. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2019 , 30, 1803-1821	3.5	10
60	Nuclear targeting peptide-modified, DOX-loaded, PHBV nanoparticles enhance drug efficacy by targeting to Saos-2 cell nuclear membranes. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018 , 29, 507-519	3.5	10
59	Construction of a choline biosensor through enzyme immobilization on a poly(2-hydroxyethyl methacrylate)-grafted Teflon film. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 3469-3477	2.9	10
58	Tissue responses to molecularly reinforced polylactide-co-glycolide implants. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2000 , 11, 401-14	3.5	10
57	The effect of introduction of filament shift on degradation behaviour of PLGA- and PLCL-based scaffolds fabricated via additive manufacturing. <i>Polymer Degradation and Stability</i> , 2020 , 171, 109030	4.7	10
56	Fundamentals of Biomaterials 2018 ,		10
55	Amplification of nuclear deformation of breast cancer cells by seeding on micropatterned surfaces to better distinguish their malignancies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 183, 110402	6	9
54	Systematically organized nanopillar arrays reveal differences in adhesion and alignment properties of BMSC and Saos-2 cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 119, 71-81	6	9
53	Cell Loaded GelMA:HEMA IPN hydrogels for corneal stroma engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 31, 2	4.5	9
52	Cartilage tissue engineering on macroporous scaffolds using human tooth germ stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 765-777	4.4	8
51	Square prism micropillars improve osteogenicity of poly(methyl methacrylate) surfaces. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 53	4.5	8
50	Electrospinning of chitosan/poly(lactic acid-co-glycolic acid)/hydroxyapatite composite nanofibrous mats for tissue engineering applications. <i>Polymer Bulletin</i> , 2014 , 71, 2999-3016	2.4	8
49	Preparation and characterization of Chitosan and PLGA-based scaffolds for tissue engineering applications. <i>Polymer Composites</i> , 2015 , 36, 1917-1930	3	8
48	Antihyperalgesic effect of simultaneously released hydromorphone and bupivacaine from polymer fibers in the rat chronic constriction injury model. <i>Life Sciences</i> , 2003 , 73, 3323-37	6.8	8

47	Proliferation and Differentiation of Mesenchymal Stem Cells in Chitosan Scaffolds Loaded with Nanocapsules Containing Bone Morphogenetic Proteins-4, Platelet-Derived Growth Factor and Insulin-Like Growth Factor 1. <i>Journal of Biomaterials and Tissue Engineering</i> , 2014 , 4, 181-188	0.3	7
46	3D cellular alignment and biomimetic mechanical stimulation enhance human adipose-derived stem cell myogenesis. <i>Biomedical Materials (Bristol)</i> , 2020 , 15, 055017	3.5	7
45	3D printed hybrid bone constructs of PCL and dental pulp stem cells loaded GelMA. <i>Journal of Biomedical Materials Research - Part A</i> , 2021 , 109, 2425-2437	5.4	7
44	3D printing of polymeric tissue engineering scaffolds using open-source fused deposition modeling. <i>Emergent Materials</i> , 2020 , 3, 429-439	3.5	7
43	Poly(sebacic anhydride) nanocapsules as carriers: effects of preparation parameters on properties and release of doxorubicin. <i>Journal of Microencapsulation</i> , 2015 , 32, 166-74	3.4	6
42	Hydrogels as a New Platform to Recapitulate the Tumor Microenvironment 2018 , 463-494		6
41	Poly(ε-caprolactone) composite scaffolds loaded with gentamicin-containing β-tricalcium phosphate/gelatin microspheres for bone tissue engineering applications. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	6
40	PLGA bone plates reinforced with crosslinked PPF. <i>Journal of Materials Science: Materials in Medicine</i> , 2002 , 13, 159-67	4.5	6
39	Modification of Acrylic Bone Cements with Oxygen Plasma and Additives. <i>Journal of Biomaterials and Tissue Engineering</i> , 2012 , 2, 236-243	0.3	6
38	Engineered natural and synthetic polymer surfaces induce nuclear deformation in osteosarcoma cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 366-376	3.5	6
37	Biocompatibility of Dead Sea Water and retinyl palmitate carrying poly(3-hydroxybutyrate-co-3-hydroxyvalerate) micro/nanoparticles designed for transdermal skin therapy. <i>Journal of Bioactive and Compatible Polymers</i> , 2015 , 30, 455-471	2	4
36	Fundamentals of tissue engineering: Carrier materials and an application. <i>Technology and Health Care</i> , 2002 , 10, 187-201	1.1	4
35	Micropatterned Surfaces Expose the Coupling between Actin Cytoskeleton-Lamin/Nesprin and Nuclear Deformability of Breast Cancer Cells with Different Malignancies. <i>Advanced Biology</i> , 2021 , 5, e2000048		4
34	A cell attracting composite of lumbar fusion cage. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017 , 28, 749-767	3.5	3
33	An estradiol releasing, proangiogenic hydrogel as a candidate material for use in soft tissue interposition. <i>Neurourology and Urodynamics</i> , 2019 , 38, 1195-1202	2.3	3
32	1.22 Polymer Fundamentals: Polymer Synthesis ? 2017 , 478-506		3
31	In Vivo Performance of Poly(ε-caprolactone) Constructs Loaded with Gentamicin Releasing Composite Microspheres for Use in Bone Regeneration. <i>Journal of Biomaterials and Tissue Engineering</i> , 2014 , 4, 786-795	0.3	3
30	Effect of chemical structure on properties of polyurethanes: Temperature responsiveness and biocompatibility. <i>Journal of Bioactive and Compatible Polymers</i> , 2018 , 33, 479-497	2	3

29	Dye derived and metal incorporated affinity poly(2-hydroxyethyl methacrylate) membranes for use in enzyme immobilization 1998 , 46, 345		3
28	A two-compartment bone tumor model to investigate interactions between healthy and tumor cells. <i>Biomedical Materials (Bristol)</i> , 2020 , 15, 035007	3.5	2
27	In vitro evaluation of injectable Tideglusib-loaded hyaluronic acid hydrogels incorporated with Rg1-loaded chitosan microspheres for vital pulp regeneration.. <i>Carbohydrate Polymers</i> , 2022 , 278, 118976	10.3	2
26	The role of biomaterials and scaffolds in immune responses in regenerative medicine: macrophage phenotype modulation by biomaterial properties and scaffold architectures. <i>Biomaterials Science</i> , 2021 , 9, 8090-8110	7.4	2
25	Metals as Biomaterials 2018 , 35-49		2
24	A Circulating Bioreactor Reprograms Cancer Cells Toward a More Mesenchymal Niche. <i>Advanced Biology</i> , 2020 , 4, e1900139	3.5	1
23	Micro- and nano-modified surfaces for better polymeric implants 2014 , 30-42		1
22	Corrosion Resistance and Cytocompatibility of Magnesium-Calcium Alloys Modified with Zinc- or Gallium-Doped Calcium Phosphate Coatings.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	1
21	Engineered Hydrogels 2021 , 89-114		1
20	Evaluating Oxygen Tensions Related to Bone Marrow and Matrix for MSC Differentiation in 2D and 3D Biomimetic Lamellar Scaffolds. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
19	Controlled Release Systems 2018 , 257-279		1
18	Sterilization of Biomaterials 2018 , 187-198		1
17	Tissue Engineering and Regenerative Medicine 2018 , 281-302		1
16	Carbon as a Biomaterial 2018 , 83-94		1
15	Fabrication of a 3D Printed PCL Nerve Guide: In Vitro and In Vivo Testing.. <i>Macromolecular Bioscience</i> , 2021 , e2100389	5.5	0
14	Engineered Biopolymers 2021 , 65-88		0
13	Evaluation of a collagen-bioaggregate composite scaffold in the repair of sheep pulp tissue. <i>European Oral Research</i> , 2021 , 55, 152-161	0.9	0
12	Nano- and Microarchitecture of Biomaterial Surfaces 2018 , 303-329		0

- 11 Micropatterned Surfaces: Micropatterned Surfaces Expose the Coupling between Actin Cytoskeleton-Lamin/Nesprin and Nuclear Deformability of Breast Cancer Cells with Different Malignancies (Adv. Biology 1/2021). *Advanced Biology*, **2021**, 5, 2170012 o
- 10 Contribution of Physical Forces on the Design of Biomimetic Tissue Substitutes **2014**, 59-76
- 9 Composites as Biomaterials **2018**, 117-130
- 8 Fundamentals of Human Biology and Anatomy **2018**, 131-140
- 7 Mechanobiology **2021**, 229-270
- 6 Biomaterials and Devices in Soft Tissue Augmentation **2018**, 199-218
- 5 Tissue-Biomaterial Interactions **2018**, 141-157
- 4 Blood Interfacing Applications **2018**, 233-256
- 3 Properties of Solids **2018**, 15-34
- 2 Polymers as Biomaterials **2018**, 65-82
- 1 Building Blocks of the Human Body **2018**, 95-115