

Kibret Mequanint

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6170419/publications.pdf>

Version: 2024-02-01

100
papers

3,143
citations

172207

29
h-index

174990

52
g-index

103
all docs

103
docs citations

103
times ranked

4142
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioactive fluorescent hybrid microparticles as a stand-alone osteogenic differentiation inducer. <i>Materials Today Bio</i> , 2022, 13, 100187.	2.6	1
2	New directions for tetrazolium - gellan gum gel dosimeters. <i>Journal of Physics: Conference Series</i> , 2022, 2167, 012031.	0.3	1
3	Electrospun Biodegradable \pm -Amino Acid-Substituted Poly(organophosphazene) Fiber Mats for Stem Cell Differentiation towards Vascular Smooth Muscle Cells. <i>Polymers</i> , 2022, 14, 1555.	2.0	1
4	Carbon-based electrically conductive materials for bone repair and regeneration. <i>Materials Advances</i> , 2022, 3, 5186-5206.	2.6	15
5	Gelation of highly entangled hydrophobic macromolecular fluid for ultrastrong underwater in situ fast tissue adhesion. <i>Science Advances</i> , 2022, 8, .	4.7	31
6	A systematic study of cellulose-reactive anionic dye removal using a sustainable bioadsorbent. <i>Chemosphere</i> , 2022, 303, 135024.	4.2	9
7	Designing Biomaterials to Modulate Notch Signaling in Tissue Engineering and Regenerative Medicine. <i>Tissue Engineering - Part B: Reviews</i> , 2021, 27, 383-410.	2.5	15
8	Tissue engineering and regenerative therapeutics: The nexus of chemical engineering and translational medicine. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 2069-2086.	0.9	5
9	Design and fabrication of drug delivery systems toward adjustable release profiles for personalized treatment. <i>View</i> , 2021, 2, 20200126.	2.7	49
10	Gellan gum gel tissue phantoms and gel dosimeters with tunable electrical, mechanical and dosimetric properties. <i>International Journal of Biological Macromolecules</i> , 2021, 180, 332-338.	3.6	8
11	Snake extract-laden hemostatic bioadhesive gel cross-linked by visible light. <i>Science Advances</i> , 2021, 7, .	4.7	96
12	Immobilization of Jagged1 Enhances Vascular Smooth Muscle Cells Maturation by Activating the Notch Pathway. <i>Cells</i> , 2021, 10, 2089.	1.8	5
13	Intrinsically fluorescent bioactive glass-poly(ester amide) hybrid microparticles for dual drug delivery and bone repair. <i>Materials Science and Engineering C</i> , 2021, 128, 112288.	3.8	12
14	Injectable and conductive cardiac patches repair infarcted myocardium in rats and minipigs. <i>Nature Biomedical Engineering</i> , 2021, 5, 1157-1173.	11.6	89
15	Embryonic Mesenchymal Multipotent Cell Differentiation on Electrospun Biodegradable Poly(ester) Tj ETQq1 1 0.784314 rgBT /Overl 980-991.	1.3	12
16	The effects of progenitor and differentiated cells on ectopic calcification of engineered vascular tissues. <i>Acta Biomaterialia</i> , 2020, 115, 288-298.	4.1	4
17	Poly(ester amide)-Bioactive Glass Hybrid Biomaterials for Bone Regeneration and Biomolecule Delivery. <i>ACS Applied Bio Materials</i> , 2020, 3, 3621-3630.	2.3	9
18	Systematic Studies on Surface Erosion of Photocrosslinked Polyanhydride Tablets and Data Correlation with Release Kinetic Models. <i>Polymers</i> , 2020, 12, 1105.	2.0	23

#	ARTICLE	IF	CITATIONS
19	Scalable microfabrication of drug-loaded core-shell tablets from a single erodible polymer with adjustable release profiles. <i>Biofabrication</i> , 2020, 12, 045007.	3.7	5
20	Sol-Gel Derived Tertiary Bioactive Glass-Ceramic Nanorods Prepared via Hydrothermal Process and Their Composites with Poly(Vinylpyrrolidone-Co-Vinylsilane). <i>Journal of Functional Biomaterials</i> , 2020, 11, 35.	1.8	4
21	Comparative Studies of Fibrin-Based Engineered Vascular Tissues and Notch Signaling from Progenitor Cells. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2696-2706.	2.6	6
22	Computational studies of 4-nitrophenyl- and 2-benzothiazolyl-substituted formazans and tetrazolium salts. <i>Chemical Physics</i> , 2020, 535, 110790.	0.9	2
23	Initial performance evaluation of a 3D gel dosimeter based on modified tetrazolium compounds. <i>Journal of Physics: Conference Series</i> , 2019, 1305, 012036.	0.3	3
24	Benzothiazole-containing tetrazolium salts as radiochromic indicators in gel dosimetry. <i>Journal of Physics: Conference Series</i> , 2019, 1305, 012033.	0.3	2
25	Fabrication and In Situ Cross-Linking of Carboxylic-Acid-Functionalized Poly(Ester Amide) Scaffolds for Tissue Engineering. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2360-2369.	2.0	8
26	Bone Repair and Regenerative Biomaterials: Towards Recapitulating the Microenvironment. <i>Polymers</i> , 2019, 11, 1437.	2.0	46
27	Proposed percutaneous aortic valve prosthesis made of cryogel. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 515-524.	1.0	8
28	Fortifying Angiogenesis in Ischemic Muscle with FGF9-Loaded Electrospun Poly(Ester Amide) Fibers. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801294.	3.9	19
29	Ultralight Conductive and Elastic Aerogel for Skeletal Muscle Atrophy Regeneration. <i>Advanced Functional Materials</i> , 2019, 29, 1806200.	7.8	36
30	Preparation and characterization of electrospun rGO-poly(ester amide) conductive scaffolds. <i>Materials Science and Engineering C</i> , 2019, 98, 324-332.	3.8	31
31	Porous and biodegradable polycaprolactone-borophosphosilicate hybrid scaffolds for osteoblast infiltration and stem cell differentiation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 92, 162-171.	1.5	18
32	Gellan gum-based gels with tunable relaxation properties for MRI phantoms. <i>Magnetic Resonance Imaging</i> , 2019, 57, 40-49.	1.0	12
33	Biomedical Applications of Layer-by-Layer Self-Assembly for Cell Encapsulation: Current Status and Future Perspectives. <i>Advanced Healthcare Materials</i> , 2019, 8, e1800939.	3.9	93
34	Viscoelastic properties of multi-layered cellularized vascular tissues fabricated from collagen gel. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 80, 155-163.	1.5	13
35	Bioactivity, Degradation, and Mechanical Properties of Poly(vinylpyrrolidone-co-triethoxyvinylsilane)/Tertiary Bioactive Glass Hybrids. <i>ACS Applied Bio Materials</i> , 2018, 1, 1369-1381.	2.3	5
36	Emerging Strategies for Stem Cell Lineage Commitment in Tissue Engineering and Regenerative Medicine. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3644-3657.	2.6	8

#	ARTICLE	IF	CITATIONS
37	One-Pot Substitution Approach for the Syntheses of Nonfunctional and Functional Poly[(amino acid) Tj ETQq1 1 0.784314 rgBT /Ove	1.7	5
38	Multifactorial study and kinetics of signal development in ferrousâ€“methylthymol blueâ€“gelatin gel dosimeters. Medical Physics, 2017, 44, 1948-1957.	1.6	24
39	Mechanically-competent and cytocompatible polycaprolactone-borophosphosilicate hybrid biomaterials. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 180-189.	1.5	20
40	Bioreactor-induced mesenchymal progenitor cell differentiation and elastic fiber assembly in engineered vascular tissues. Acta Biomaterialia, 2017, 59, 200-209.	4.1	26
41	Tetrazolium salt monomers for gel dosimetry I: Principles. Journal of Physics: Conference Series, 2017, 847, 012048.	0.3	13
42	Tetrazolium salt monomers for gel dosimetry II: Dosimetric characterization of the ClearViewâ„¢ 3D dosimeter. Journal of Physics: Conference Series, 2017, 847, 012049.	0.3	8
43	Preparation and Characterization of Glycol Chitosan-Fe₃O₄ Coreâ€“Shell Magnetic Nanoparticles for Controlled Delivery of Progesterone. Journal of Biomaterials and Tissue Engineering, 2017, 7, 561-570.	0.0	12
44	The Effect of Oxidizing Agents in the Preparation of 2,3,5â€“riarylâ€“Hâ€“â€“tetrazolium Salts from 1,3,5â€“riarylformazans. 1.4 Journal of Heterocyclic Chemistry, 2016, 53, 1655-1660.	1.4	5
45	Concurrent and Sustained Delivery of FGF2 and FGF9 from Electrospun Poly(ester amide) Fibrous Mats for Therapeutic Angiogenesis. Tissue Engineering - Part A, 2016, 22, 584-596.	1.6	17
46	Bioactive borophosphosilicate-polycaprolactone hybrid biomaterials via a non-aqueous sol gel process. RSC Advances, 2016, 6, 92824-92832.	1.7	21
47	Engineering 3D Cellularized Collagen Gels for Vascular Tissue Regeneration. Journal of Visualized Experiments, 2015, , e52812.	0.2	18
48	Activation of Transcription Factor <i>GAX</i> and Concomitant Downregulation of IL-1Î² and ERK1/2 Modulate Vascular Smooth Muscle Cell Phenotype in 3D Fibrous Scaffolds. Tissue Engineering - Part A, 2015, 21, 2356-2365.	1.6	5
49	Vascular Grafting Strategies in Coronary Intervention. Frontiers in Materials, 2014, 1, .	1.2	8
50	EFFECT OF STRESS INTENSITY FACTOR IN EVALUATION OF INSTABILITY OF ATHEROSCLEROTIC PLAQUE. Journal of Mechanics in Medicine and Biology, 2014, 14, 1450072.	0.3	5
51	Regulation of Vascular Smooth Muscle Cell Phenotype in Three-Dimensional Coculture System by Jagged1-Selective Notch3 Signaling. Tissue Engineering - Part A, 2014, 20, 1175-1187.	1.6	34
52	Biodegradable Polyphosphazene Biomaterials for Tissue Engineering and Delivery of Therapeutics. BioMed Research International, 2014, 2014, 1-16.	0.9	47
53	Blends and Nanocomposite Biomaterials for Articular Cartilage Tissue Engineering. Materials, 2014, 7, 5327-5355.	1.3	59
54	Biomimetic l-aspartic acid-derived functional poly(ester amide)s for vascular tissue engineering. Acta Biomaterialia, 2014, 10, 3484-3496.	4.1	42

#	ARTICLE	IF	CITATIONS
55	Controlled Delivery of Fibroblast Growth Factor-9 from Biodegradable Poly(ester amide) Fibers for Building Functional Neovasculature. <i>Pharmaceutical Research</i> , 2014, 31, 3335-3347.	1.7	23
56	Cyclodextrin Inclusion Complexes as Potential Oxygen Delivery Vehicles in Tissue Engineering. <i>Journal of Biomaterials and Tissue Engineering</i> , 2014, 4, 957-966.	0.0	7
57	<I>A Special Issue on</I> Biomaterials, Tissue Engineering, and Regenerative Medicine Research in Canada. <i>Journal of Biomaterials and Tissue Engineering</i> , 2014, 4, 843-844.	0.0	0
58	MICRO-FINITE ELEMENT MODELING OF WRINKLE FORMATION FOR CELL LOCOMOTION APPLICATIONS. <i>Journal of Mechanics in Medicine and Biology</i> , 2013, 13, 1350019.	0.3	4
59	Role of Bioactive 3D Hybrid Fibrous Scaffolds on Mechanical Behavior and Spatiotemporal Osteoblast Gene Expression. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7574-7583.	4.0	35
60	Advances in Growth Factor Delivery for Therapeutic Angiogenesis. <i>Journal of Vascular Research</i> , 2013, 50, 35-51.	0.6	51
61	Small-diameter vascular tissue engineering. <i>Nature Reviews Cardiology</i> , 2013, 10, 410-421.	6.1	386
62	3D scaffolds in tissue engineering and regenerative medicine: beyond structural templates?. <i>Pharmaceutical Bioprocessing</i> , 2013, 1, 267-281.	0.8	17
63	Controlling sensitivity and stability of ferrousâ€“xylenol orangeâ€“gelatin 3D gel dosimeters by doping with phenanthroline-type ligands and glyoxal. <i>Physics in Medicine and Biology</i> , 2013, 58, 1823-1838.	1.6	23
64	Computational aspects in mechanical modeling of the articular cartilage tissue. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013, 227, 402-420.	1.0	20
65	The Effects of Fabrication Strategies on 3D Scaffold Morphology, Porosity, and Vascular Smooth Muscle Cell Response. <i>Journal of Biomaterials and Tissue Engineering</i> , 2013, 3, 300-311.	0.0	12
66	Focal Contact Formation of Vascular Smooth Muscle Cells on Langmuirâ€“Blodgett and Solvent-Cast Films of Biodegradable Poly(ester amide)s. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1303-1312.	4.0	20
67	The role of Ras-ERK-IL-1Î² signaling pathway in upregulation of elastin expression by human coronary artery smooth muscle cells cultured in 3D scaffolds. <i>Biomaterials</i> , 2012, 33, 7047-7056.	5.7	17
68	Fibrous biodegradable l-alanine-based scaffolds for vascular tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012, 8, n/a-n/a.	1.3	22
69	Hydroxyapatite Formation on Solâ€“Gel Derived Poly(Î¼-Caprolactone)/Bioactive Glass Hybrid Biomaterials. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3148-3156.	4.0	56
70	Bioactive and Biodegradable Nanocomposites and Hybrid Biomaterials for Bone Regeneration. <i>Journal of Functional Biomaterials</i> , 2012, 3, 432-463.	1.8	117
71	The role of endothelial cell-bound Jagged1 in Notch3-induced human coronary artery smooth muscle cell differentiation. <i>Biomaterials</i> , 2012, 33, 2462-2472.	5.7	38
72	An Inverse Numerical Approach for Modeling Aortic Heart Valve Leaflet Tissue Oxygenation. <i>Cardiovascular Engineering and Technology</i> , 2012, 3, 73-79.	0.7	7

#	ARTICLE	IF	CITATIONS
73	Fabrication of Vascular Tissue Engineering Scaffolds with Enhanced Oxygen Diffusivity and Cell Infiltration. <i>Journal of Biomaterials and Tissue Engineering</i> , 2012, 2, 280-291.	0.0	6
74	Strategies in Functional Poly(ester amide) Syntheses to Study Human Coronary Artery Smooth Muscle Cell Interactions. <i>Biomacromolecules</i> , 2011, 12, 2475-2487.	2.6	54
75	Type I Collagen Cleavage Is Essential for Effective Fibrotic Repair after Myocardial Infarction. <i>American Journal of Pathology</i> , 2011, 179, 2189-2198.	1.9	20
76	Tissue engineering scaffolds containing embedded fluorinated-zeolite oxygen vectors. <i>Acta Biomaterialia</i> , 2011, 7, 3670-3678.	4.1	59
77	Prosthetic aortic heart valves: Modeling and design. <i>Medical Engineering and Physics</i> , 2011, 33, 131-147.	0.8	91
78	Three-Dimensional Topography of Synthetic Scaffolds Induces Elastin Synthesis by Human Coronary Artery Smooth Muscle Cells. <i>Tissue Engineering - Part A</i> , 2011, 17, 1561-1571.	1.6	40
79	A NUMERICAL TECHNIQUE TO EVALUATE THE FLEXURAL STIFFNESS OF LONG BONES AFFECTED BY CRACKS AND POROSITY. <i>Journal of Mechanics in Medicine and Biology</i> , 2011, 11, 131-148.	0.3	2
80	Experimental and Modeling Studies of Oxygen Tension in Vascular Tissue Engineering With and Without an Oxygen Carrier. <i>Journal of Biomaterials and Tissue Engineering</i> , 2011, 1, 49-59.	0.0	3
81	Versatile Biodegradable Poly(ester amide)s Derived from α -Amino Acids for Vascular Tissue Engineering. <i>Materials</i> , 2010, 3, 2346-2368.	1.3	65
82	Fabrication of highly porous tissue-engineering scaffolds using selective spherical porogens. <i>Bio-Medical Materials and Engineering</i> , 2010, 20, 107-118.	0.4	28
83	Synthesis and Electrospinning of β -Polycaprolactone-Bioactive Glass Hybrid Biomaterials via a Sol-Gel Process. <i>Langmuir</i> , 2010, 26, 18340-18348.	1.6	113
84	Smooth Muscle α -Actin and Calponin Expression and Extracellular Matrix Production of Human Coronary Artery Smooth Muscle Cells in 3D Scaffolds. <i>Tissue Engineering - Part A</i> , 2009, 15, 3001-3011.	1.6	20
85	Interactions of coronary artery smooth muscle cells with 3D porous polyurethane scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 89A, 293-303.	2.1	26
86	A versatile approach for the syntheses of poly(ester amide)s with pendant functional groups. <i>Journal of Polymer Science Part A</i> , 2009, 47, 3757-3772.	2.5	39
87	The kinetics of dithiocarbamate-mediated polyurethane-block-poly(methyl methacrylate) polymers. <i>Polymer</i> , 2009, 50, 4464-4470.	1.8	14
88	Swelling kinetics of physically crosslinked Polyurethane-block-polyacrylamide hydrogels. , 2009, , .		0
89	Syntheses, characterization, and functionalization of poly(ester amide)s with pendant amine functional groups. <i>Journal of Polymer Science Part A</i> , 2008, 46, 6376-6392.	2.5	43
90	Syntheses and characterization of physically crosslinked hydrogels from dithiocarbamate-derived polyurethane macroiniferter. <i>Journal of Polymer Science Part A</i> , 2008, 46, 6272-6284.	2.5	17

#	ARTICLE	IF	CITATIONS
91	Protein adsorption and platelet adhesion onto ion-containing polyurethanes. Journal of Biomaterials Science, Polymer Edition, 2007, 18, 1195-1210.	1.9	9
92	Polyurethane biomaterials for fabricating 3D porous scaffolds and supporting vascular cells. Journal of Biomedical Materials Research - Part A, 2007, 82A, 802-809.	2.1	70
93	Novel Physically Crosslinked Polyurethane-block-Poly(vinyl pyrrolidone) Hydrogel Biomaterials. Macromolecular Bioscience, 2007, 7, 727-737.	2.1	30
94	The effect of thiolation on the mechanical and protein adsorption properties of polyurethanes. European Polymer Journal, 2007, 43, 1415-1427.	2.6	25
95	Synthesis, Swelling Behavior, and Biocompatibility of Novel Physically Cross-Linked Polyurethane-block-Poly(glycerol methacrylate) Hydrogels. Biomacromolecules, 2006, 7, 883-891.	2.6	86
96	Hydrolytic stability of nano-particle polyurethane dispersions: Implications to their long-term use. European Polymer Journal, 2006, 42, 1145-1153.	2.6	18
97	Elastin biosynthesis: The missing link in tissue-engineered blood vessels. Cardiovascular Research, 2006, 71, 40-49.	1.8	279
98	Ultraviolet (UV) curing of phosphated polyurethane-acrylic dispersions. Macromolecular Symposia, 2003, 193, 169-186.	0.4	6
99	Two-dimensional chromatography of complex polymers. 3. Full analysis of polystyrene-poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlo 1.3		
100	Hydrogel Biomaterials. , 0, , .		32