Alyssa Panitch

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2567052/publications.pdf

Version: 2024-02-01

		76326	128289
126	4,345	40	60
papers	citations	h-index	g-index
129	129	129	5379
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Biologically Engineered Protein-graft-Poly(ethylene glycol) Hydrogels:Â A Cell Adhesive and Plasmin-Degradable Biosynthetic Material for Tissue Repair. Biomacromolecules, 2002, 3, 710-723.	5.4	302
2	Abdominal Adhesions: Current and Novel Therapies. Journal of Surgical Research, 2011, 165, 91-111.	1.6	185
3	Development of growth factor fusion proteins for cellâ€triggered drug delivery. FASEB Journal, 2001, 15, 1300-1302.	0.5	171
4	Design and Biosynthesis of Elastin-like Artificial Extracellular Matrix Proteins Containing Periodically Spaced Fibronectin CS5 Domains. Macromolecules, 1999, 32, 1701-1703.	4.8	167
5	Transducible heat shock protein 20 (HSP20) phosphopeptide alters cytoskeletal dynamics. FASEB Journal, 2005, 19, 1-14.	0.5	93
6	Thin microelectrodes reduce GFAP expression in the implant site in rodent somatosensory cortex. Journal of Neural Engineering, 2007, 4, 42-53.	3.5	93
7	Collagen- and hyaluronic acid-based hydrogels and their biomedical applications. Materials Science and Engineering Reports, 2021, 146, 100641.	31.8	93
8	Physical Polymer Matrices Based on Affinity Interactions between Peptides and Polysaccharides. Biomacromolecules, 2003, 4, 1572-1582.	5.4	92
9	Influence of cross-linked hyaluronic acid hydrogels on neurite outgrowth and recovery from spinal cord injury. Journal of Neurosurgery: Spine, 2007, 6, 133-140.	1.7	91
10	Influence of chondroitin sulfate on collagen gel structure and mechanical properties at physiologically relevant levels. Biopolymers, 2008, 89, 841-851.	2.4	85
11	Targeting Methicillin-Resistant Staphylococcus aureus with Short Salt-Resistant Synthetic Peptides. Antimicrobial Agents and Chemotherapy, 2014, 58, 4113-4122.	3.2	77
12	Comparative Study of the Skin Penetration of Protein Transduction Domains and a Conjugated Peptide. Pharmaceutical Research, 2005, 22, 750-757.	3.5	75
13	Glycosaminoglycans in Tissue Engineering: A Review. Biomolecules, 2021, 11, 29.	4.0	74
14	Poly(l-alanylglycine):Â Multigram-Scale Biosynthesis, Crystallization, and Structural Analysis of Chain-Folded Lamellae. Macromolecules, 1997, 30, 42-49.	4.8	68
15	Hyaluronan scaffolds: A balance between backbone functionalization and bioactivity. Acta Biomaterialia, 2010, 6, 2407-2414.	8.3	61
16	Collagen Type I and II Blend Hydrogel with Autologous Mesenchymal Stem Cells as a Scaffold for Articular Cartilage Defect Repair. ACS Biomaterials Science and Engineering, 2020, 6, 3464-3476.	5 . 2	60
17	Design of a Synthetic Collagen-Binding Peptidoglycan that Modulates Collagen Fibrillogenesis. Biomacromolecules, 2008, 9, 2562-2566.	5.4	59
18	The small heat shock protein (HSP) 20 is dynamically associated with the actin cross-linking protein actinin. Journal of Surgical Research, 2003, 111, 152-157.	1.6	58

#	Article	IF	Citations
19	Cell Permeant Peptide Analogues of the Small Heat Shock Protein, HSP20, Reduce TGF-Î ² 1-Induced CTGF Expression in Keloid Fibroblasts. Journal of Investigative Dermatology, 2009, 129, 590-598.	0.7	58
20	Functionalization of hyaluronic acid hydrogels with ECM-derived peptides to control myoblast behavior. Acta Biomaterialia, 2019, 84, 169-179.	8.3	58
21	A Review of Hyaluronic Acid and Hyaluronic Acid-based Hydrogels for Vocal Fold Tissue Engineering. Journal of Voice, 2017, 31, 416-423.	1.5	57
22	Collagen-Binding Peptidoglycans Inhibit MMP Mediated Collagen Degradation and Reduce Dermal Scarring. PLoS ONE, 2011, 6, e22139.	2,5	56
23	A Collagen Peptideâ€Based Physical Hydrogel for Cell Encapsulation. Macromolecular Bioscience, 2011, 11, 1426-1431.	4.1	55
24	Delivery of anti-inflammatory peptides from hollow PEGylated poly(NIPAM) nanoparticles reduces inflammation in an ex vivo osteoarthritis model. Journal of Controlled Release, 2017, 258, 161-170.	9.9	55
25	Transduction of biologically active motifs of the small heat shockâ€related protein, HSP20, leads to relaxation of vascular smooth muscle. FASEB Journal, 2003, 17, 1358-1360.	0.5	54
26	Characterization of Collagen Type I and II Blended Hydrogels for Articular Cartilage Tissue Engineering. Biomacromolecules, 2016, 17, 3145-3152.	5.4	53
27	Rapid endothelialization of small diameter vascular grafts by a bioactive integrin-binding ligand specifically targeting endothelial progenitor cells and endothelial cells. Acta Biomaterialia, 2020, 108, 178-193.	8.3	51
28	Cell-penetrating peptides released from thermosensitive nanoparticles suppress pro-inflammatory cytokine response by specifically targeting inflamed cartilage explants. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 419-427.	3.3	50
29	Characterization of Gels Composed of Blends of Collagen I, Collagen III, and Chondroitin Sulfate. Biomacromolecules, 2009, 10, 25-31.	5.4	49
30	Inhibition of monocyte-like cell extravasation protects from neurodegeneration in DBA/2J glaucoma. Molecular Neurodegeneration, 2019, 14, 6.	10.8	49
31	Proteoglycans in Biomedicine: Resurgence of an Underexploited Class of ECM Molecules. Frontiers in Pharmacology, 2019, 10, 1661.	3.5	49
32	Interplay between Covalent and Physical Interactions within Environment Sensitive Hydrogels. Biomacromolecules, 2009, 10, 1090-1099.	5.4	48
33	Peptide-Mediated Inhibition of Mitogen-Activated Protein Kinase–Activated Protein Kinase–2 Ameliorates Bleomycin-Induced Pulmonary Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2013, 49, 47-57.	2.9	48
34	Synthesis and characterization of a lubricin mimic (mLub) to reduce friction and adhesion on the articular cartilage surface. Biomaterials, 2015, 73, 42-50.	11.4	48
35	Inhibition of HSP27 phosphorylation by a cell-permeant MAPKAP Kinase 2 inhibitor. Biochemical and Biophysical Research Communications, 2009, 382, 535-539.	2.1	46
36	Cell-penetrating peptides can confer biological function: Regulation of inflammatory cytokines in human monocytes by MK2 inhibitor peptides. Journal of Controlled Release, 2011, 155, 128-133.	9.9	45

#	Article	IF	Citations
37	Synthesis and characterization of an aggrecan mimic. Acta Biomaterialia, 2012, 8, 1543-1550.	8.3	45
38	Incorporation of an aggrecan mimic prevents proteolytic degradation of anisotropic cartilage analogs. Acta Biomaterialia, 2013, 9, 4618-4625.	8.3	45
39	Viscoelastic Behavior of Environmentally Sensitive Biomimetic Polymer Matrices. Macromolecules, 2006, 39, 2268-2274.	4.8	43
40	Enhanced skin penetration of P20 phosphopeptide using protein transduction domains. European Journal of Pharmaceutics and Biopharmaceutics, 2008, 68, 441-445.	4.3	43
41	Hemocompatible Poly(NIPAm-MBA-AMPS) Colloidal Nanoparticles as Carriers of Anti-inflammatory Cell Penetrating Peptides. Biomacromolecules, 2012, 13, 1204-1211.	5.4	41
42	Transduction of peptide analogs of the small heat shock–related protein HSP20 inhibits intimal hyperplasia. Journal of Vascular Surgery, 2004, 40, 106-114.	1.1	39
43	Design of a bioactive cellâ€penetrating peptide: when a transduction domain does more than transduce. Journal of Peptide Science, 2009, 15, 668-674.	1.4	39
44	Incorporation of a decorin biomimetic enhances the mechanical properties of electrochemically aligned collagen threads. Acta Biomaterialia, 2011, 7, 2428-2436.	8.3	39
45	Controlled release of anti-inflammatory peptides from reducible thermosensitive nanoparticles suppresses cartilage inflammation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 2095-2100.	3.3	39
46	Hyaluronic acid scaffold has a neuroprotective effect in hemisection spinal cord injury. Journal of Neurosurgery: Spine, 2016, 25, 114-124.	1.7	39
47	Thermoresponsive, hollow, degradable core-shell nanoparticles for intra-articular delivery of anti-inflammatory peptide. Journal of Controlled Release, 2020, 323, 47-58.	9.9	38
48	The inhibition of platelet adhesion and activation on collagen during balloon angioplasty by collagen-binding peptidoglycans. Biomaterials, 2011, 32, 2516-2523.	11.4	37
49	Glycosaminoglycans in biomedicine. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2013, 5, 388-398.	6.1	37
50	Incorporation of types I and III collagen in tunable hyaluronan hydrogels for vocal fold tissue engineering. Acta Biomaterialia, 2019, 87, 97-107.	8.3	36
51	Collagen-Binding Peptidoglycans: A Biomimetic Approach to Modulate Collagen Fibrillogenesis for Tissue Engineering Applications. Tissue Engineering - Part A, 2009, 15, 2991-2999.	3.1	35
52	Release of Anti-inflammatory Peptides from Thermosensitive Nanoparticles with Degradable Cross-Links Suppresses Pro-inflammatory Cytokine Production. Biomacromolecules, 2015, 16, 1191-1200.	5.4	33
53	Peptide Inhibitors of MK2 Show Promise for Inhibition of Abdominal Adhesions. Journal of Surgical Research, 2011, 169, e27-e36.	1.6	32
54	Decorin Mimic Inhibits Vascular Smooth Muscle Proliferation and Migration. PLoS ONE, 2013, 8, e82456.	2.5	32

#	Article	IF	CITATIONS
55	Chondroitin sulfate-binding peptides block chondroitin 6-sulfate inhibition of cortical neurite growth. Neuroscience Letters, 2010, 478, 82-87.	2.1	29
56	Blood-derived anti-inflammatory protein solution blocks the effect of IL- $1\hat{1}^2$ on human macrophages in vitro. Inflammation Research, 2011, 60, 929-936.	4.0	29
57	Inhibition of Mitogen Activated Protein Kinase Activated Protein Kinase II with MMI-0100 reduces intimal hyperplasia ex vivo and in vivo. Vascular Pharmacology, 2012, 56, 47-55.	2.1	27
58	Multi-peptide presentation and hydrogel mechanics jointly enhance therapeutic duo-potential of entrapped stromal cells. Biomaterials, 2020, 245, 119973.	11.4	27
59	Development of affinity-based delivery of NGF from a chondroitin sulfate biomaterial. Biomatter, 2011, 1, 174-181.	2.6	26
60	Thermosensitive Nanoparticles with pH-Triggered Degradation and Release of Anti-inflammatory Cell-Penetrating Peptides. Biomacromolecules, 2012, 13, 2578-2584.	5.4	26
61	Endothelial cells, neutrophils and platelets: getting to the bottom of an inflammatory triangle. Open Biology, 2020, 10, 200161.	3.6	26
62	Bioactive extracellular matrix scaffolds engineered with proangiogenic proteoglycan mimetics and loaded with endothelial progenitor cells promote neovascularization and diabetic wound healing. Bioactive Materials, 2022, 10, 460-473.	15.6	25
63	Scaffold-Free <i>In Vitro</i> Arterial Mimetics: The Importance of Smooth Muscle–Endothelium Contact. Tissue Engineering - Part A, 2010, 16, 1901-1912.	3.1	24
64	Characterization of a chondroitin sulfate hydrogel for nerve root regeneration. Journal of Neural Engineering, 2011, 8, 056003.	3.5	24
65	Best of Both Hydrogel Worlds: Harnessing Bioactivity and Tunability by Incorporating Glycosaminoglycans in Collagen Hydrogels. Bioengineering, 2020, 7, 156.	3.5	24
66	Biomimetic Aggrecan Reduces Cartilage Extracellular Matrix From Degradation and Lowers Catabolic Activity in Ex Vivo and In Vivo Models. Macromolecular Bioscience, 2013, 13, 1228-1237.	4.1	23
67	Decorin Mimic Regulates Platelet-Derived Growth Factor and Interferon-Î ³ Stimulation of Vascular Smooth Muscle Cells. Biomacromolecules, 2014, 15, 2090-2103.	5.4	23
68	Endogenous Electric Signaling as a Blueprint for Conductive Materials in Tissue Engineering. Bioelectricity, 2021, 3, 27-41.	1.1	23
69	A novel cell permeant peptide inhibitor of MAPKAP kinase II inhibits intimal hyperplasia in a human saphenous vein organ culture model. Journal of Vascular Surgery, 2010, 52, 1596-1607.	1.1	21
70	Fiberâ€based fluorescence lifetime imaging of recellularization processes on vascular tissue constructs. Journal of Biophotonics, 2018, 11, e201700391.	2.3	21
71	Identification and Sequence Composition Characterization of Chondroitin Sulfate-Binding Peptides through Peptide Array Screening. Biochemistry, 2010, 49, 1549-1555.	2.5	18
72	Development of a Glycosaminoglycan Derived, Selectin Targeting Anti-Adhesive Coating to Treat Endothelial Cell Dysfunction. Pharmaceuticals, 2017, 10, 36.	3.8	18

#	Article	IF	Citations
73	An ex vivo method for evaluating the biocompatibility of neural electrodes in rat brain slice cultures. Journal of Neuroscience Methods, 2004, 137, 257-263.	2.5	17
74	Physical matrices stabilized by enzymatically sensitive covalent crosslinks. Acta Biomaterialia, 2006, 2, 241-251.	8.3	17
75	Collagen-binding nanoparticles for extracellular anti-inflammatory peptide delivery decrease platelet activation, promote endothelial migration, and suppress inflammation. Acta Biomaterialia, 2017, 49, 78-88.	8.3	16
76	Imaging growth of neurites in conditioned hydrogel by coherent anti-Stokes Raman scattering microscopy. Organogenesis, 2009, 5, 231-237.	1.2	15
77	Biomimetic Molecules Lower Catabolic Expression and Prevent Chondroitin Sulfate Degradation in an Osteoarthritic ex Vivo Model. ACS Biomaterials Science and Engineering, 2016, 2, 241-250.	5.2	15
78	Preservation of the Structure of Enzymatically-Degraded Bovine Vitreous Using Synthetic Proteoglycan Mimics. Investigative Ophthalmology and Visual Science, 2014, 55, 8153-8162.	3.3	14
79	Macromolecular Approaches to Prevent Thrombosis and Intimal Hyperplasia Following Percutaneous Coronary Intervention. Biomacromolecules, 2014, 15, 2825-2832.	5.4	14
80	Physical, Biomechanical, and Optical Characterization of Collagen and Elastin Blend Hydrogels. Annals of Biomedical Engineering, 2020, 48, 2924-2935.	2.5	14
81	Modification of native collagen with cellâ€adhesive peptide to promote RPE cell attachment on Bruch's membrane. Biotechnology and Bioengineering, 2009, 102, 1723-1729.	3.3	13
82	Synthesis and characterization of a poly(lactic-co-glycolic acid) core + poly(N-isopropylacrylamide) shell nanoparticle system. Biomatter, 2012, 2, 195-201.	2.6	13
83	Glycan Therapeutics: Resurrecting an Almost Pharmaâ€Forgotten Drug Class. Advanced Therapeutics, 2018, 1, 1800082.	3.2	13
84	Selectin-targeting glycosaminoglycan-peptide conjugate limits neutrophil-mediated cardiac reperfusion injury. Cardiovascular Research, 2022, 118, 267-281.	3.8	13
85	Incorporation of a Collagen-Binding Chondroitin Sulfate Molecule to a Collagen Type I and II Blend Hydrogel for Cartilage Tissue Engineering. ACS Biomaterials Science and Engineering, 2022, 8, 1247-1257.	5.2	13
86	Cell penetrating peptides can exert biological activity: a review. Biomolecular Concepts, 2010, 1, 109-116.	2.2	12
87	An in vitro scaffold-free epithelial-fibroblast coculture model for the larynx. Laryngoscope, 2017, 127, E185-E192.	2.0	12
88	Matrix Stiffness Affects Endocytic Uptake of MK2-Inhibitor Peptides. PLoS ONE, 2014, 9, e84821.	2.5	12
89	Toward a Continuous Intravascular Glucose Monitoring System. Sensors, 2011, 11, 409-424.	3.8	11
90	Decorin mimic promotes endothelial cell health in endothelial monolayers and endothelial–smooth muscle coâ€cultures. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1365-1376.	2.7	11

#	Article	IF	Citations
91	Raman Spectroscopic Investigation of Peptideâ€"Glycosaminoglycan Interactions. Applied Spectroscopy, 2009, 63, 636-641.	2.2	10
92	Characterization of endocytic uptake of MK2â€inhibitor peptides. Journal of Peptide Science, 2013, 19, 629-638.	1.4	10
93	Developing an Injectable Nanofibrous Extracellular Matrix Hydrogel With an Integrin $\hat{l}\pm v\hat{l}^2$ 3 Ligand to Improve Endothelial Cell Survival, Engraftment and Vascularization. Frontiers in Bioengineering and Biotechnology, 2020, 8, 890.	4.1	10
94	A Novel Assay To Probe Heparinâ^'Peptide Interactions Using Pentapeptide-Stabilized Gold Nanoparticles. Langmuir, 2008, 24, 8794-8800.	3.5	9
95	Effects of a synthetic bioactive peptide on neurite growth and nerve growth factor release in chondroitin sulfate hydrogels. Biomatter, 2011, 1, 165-173.	2.6	9
96	Water soluble polymer films for intravascular drug delivery of antithrombotic biomolecules. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 84, 125-131.	4.3	9
97	Bovine pericardial extracellular matrix niche modulates human aortic endothelial cell phenotype and function. Scientific Reports, 2019, 9, 16688.	3.3	9
98	Selectin-Targeting Peptide–Glycosaminoglycan Conjugates Modulate Neutrophil–Endothelial Interactions. Cellular and Molecular Bioengineering, 2019, 12, 121-130.	2.1	9
99	Peptide-modified chondroitin sulfate reduces coefficient of friction at articular cartilage surface. Current Research in Biotechnology, 2020, 2, 16-21.	3.7	9
100	Dexamethasone Controlled Release on TGF- \hat{l}^21 Treated Vocal Fold Fibroblasts. Annals of Otology, Rhinology and Laryngology, 2015, 124, 572-578.	1.1	7
101	Localized inhibition of platelets and platelet derived growth factor by a matrix targeted glycan mimetic significantly attenuates liver fibrosis. Biomaterials, 2021, 269, 120538.	11.4	7
102	Proangiogenic Collagen-Binding Glycan Therapeutic Promotes Endothelial Cell Angiogenesis. ACS Biomaterials Science and Engineering, 2021, 7, 3281-3292.	5.2	7
103	Accuracy of ultrasound-guided intra-articular injections in guinea pig knees. Bone and Joint Research, 2015, 4, 1-5.	3.6	5
104	Varying <scp>RGD</scp> concentration and cell phenotype alters the expression of extracellular matrix genes in vocal fold fibroblasts. Journal of Biomedical Materials Research - Part A, 2015, 103, 3094-3100.	4.0	5
105	Prevention of Collagen-Induced Platelet Binding and Activation by Thermosensitive Nanoparticles. AAPS Journal, 2015, 17, 1117-1125.	4.4	4
106	Hyaluronic Acid-Binding, Anionic, Nanoparticles Inhibit ECM Degradation and Restore Compressive Stiffness in Aggrecan-Depleted Articular Cartilage Explants. Pharmaceutics, 2021, 13, 1503.	4.5	4
107	Physical and Bioactive Properties of Glycosaminoglycan Hydrogels Modulated by Polymer Design Parameters and Polymer Ratio. Biomacromolecules, 2021, 22, 4316-4326.	5.4	4
108	MK2 inhibitor peptide reduces adhesion formation without affecting colonic anastomotic healing. Journal of the American College of Surgeons, 2009, 209, S17.	0.5	3

#	Article	IF	CITATIONS
109	An Incubatable Direct Current Stimulation System for In Vitro Studies of Mammalian Cells. BioResearch Open Access, 2012, 1, 199-203.	2.6	2
110	Simultaneous intraluminal imaging of tissue autofluorescence and eGFP-labeled cells in engineered vascular grafts inside a bioreactor. Methods and Applications in Fluorescence, 2019, 7, 044003.	2.3	2
111	Proteoglycans and proteoglycan mimetics for tissue engineering. American Journal of Physiology - Cell Physiology, 2022, 322, C754-C761.	4.6	2
112	Preparation of biomolecule gel matrices for electron microscopy. Ultramicroscopy, 2008, 108, 309-313.	1.9	1
113	65993 Peptide Conjugated Hollow, Degradable Nanoparticles Bind to Exposed Hyaluronic Acid for the Prevention and Treatment of Osteoarthritis. Journal of Clinical and Translational Science, 2021, 5, 142-142.	0.6	1
114	Biologically-Based Self-Assembling Hydrogels. Materials Research Society Symposia Proceedings, 2002, 724, N3.2.1.	0.1	1
115	A Cell-Penetrating Peptide for Inhibiting MAPKAP Kinase 2-Mediated Inflammatory Cytokine Release Following Glial Cell Activation. World Journal of Neuroscience, 2015, 05, 115-130.	0.1	1
116	Preliminary characterization of a glucose-sensitive hydrogel., 2010, 2010, 5014-7.		0
117	Incorporation of a Decorin Biomimetic Enhances the Mechanical Properties of Electrochemically Aligned Collagen Threads., 2011,,.		0
118	Inhibition Of MK2 Activity Protects Against Bleomycin-Injured Pulmonary Fibrosis In Mice., 2012, , .		0
119	PDGF-stimulated smooth muscle cell behavior inhibited by decorin mimic. , 2014, , .		0
120	Development of an aggrecan mimic to halt osteoarthritis progression. Osteoarthritis and Cartilage, 2014, 22, S473-S474.	1.3	0
121	The 2017 Young Innovators of Cellular and Molecular Bioengineering. Cellular and Molecular Bioengineering, 2017, 10, 339-340.	2.1	0
122	Reduction of heat shock protein 27 phosphorylation inhibits the development of intimal hyperplasia. FASEB Journal, 2008, 22, 902.6.	0.5	0
123	Collagenâ€binding Peptide Attenuates Catheterâ€Induced Coronary Vasospasm. FASEB Journal, 2015, 29, 803.3.	0.5	0
124	LATE-BREAKING ABSTRACT: Effect of inhaled kinase inhibitor on airway inflammation assessed in induced sputum after challenge with inhaled lipopolysaccharide. , 2016, , .		0
125	Abstract 528: Selectin-Binding Peptide Conjugate Molecule Decreases Murine Deep Vein Thrombosis Formation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, .	2.4	0
126	Proangiogenic Collagen Binding Glycan Therapeutic Promotes Endothelial Cell Health: Potential Application for the Treatment of Ischemic Wounds. SSRN Electronic Journal, 0, , .	0.4	0