

Linda G Griffith

List of Publications by Year in descending order

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176
papers

23,353
citations

10351

72
h-index

7931

149
g-index

187
all docs

187
docs citations

187
times ranked

25054
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of transport pathways in tumor vessels: Role of tumor type and microenvironment. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 4607-4612.	3.3	2,181
2	Tissue Engineering--Current Challenges and Expanding Opportunities. Science, 2002, 295, 1009-1014.	6.0	2,167
3	Capturing complex 3D tissue physiology in vitro. Nature Reviews Molecular Cell Biology, 2006, 7, 211-224.	16.1	2,002
4	ENGINEERING PRINCIPLES OF CLINICAL CELL-BASED TISSUE ENGINEERING. Journal of Bone and Joint Surgery - Series A, 2004, 86, 1541-1558.	1.4	732
5	Effect of Pore Size and Void Fraction on Cellular Adhesion, Proliferation, and Matrix Deposition. Tissue Engineering, 2001, 7, 557-572.	4.9	723
6	Polymeric biomaterials. Acta Materialia, 2000, 48, 263-277.	3.8	658
7	A three-dimensional osteochondral composite scaffold for articular cartilage repair. Biomaterials, 2002, 23, 4739-4751.	5.7	560
8	A microfabricated array bioreactor for perfused 3D liver culture. Biotechnology and Bioengineering, 2002, 78, 257-269.	1.7	441
9	Perfused multiwell plate for 3D liver tissue engineering. Lab on A Chip, 2010, 10, 51-58.	3.1	388
10	Survival and Function of Hepatocytes on a Novel Three-Dimensional Synthetic Biodegradable Polymer Scaffold With an Intrinsic Network of Channels. Annals of Surgery, 1998, 228, 8-13.	2.1	387
11	In vitro models for liver toxicity testing. Toxicology Research, 2013, 2, 23-39.	0.9	368
12	Co-regulation of cell adhesion by nanoscale RGD organization and mechanical stimulus. Journal of Cell Science, 2002, 115, 1423-1433.	1.2	368
13	Microfluidic Shear Devices for Quantitative Analysis of Cell Adhesion. Analytical Chemistry, 2004, 76, 5257-5264.	3.2	361
14	Interconnected Microphysiological Systems for Quantitative Biology and Pharmacology Studies. Scientific Reports, 2018, 8, 4530.	1.6	341
15	Emerging Design Principles in Biomaterials and Scaffolds for Tissue Engineering. Annals of the New York Academy of Sciences, 2002, 961, 83-95.	1.8	335
16	Integration of surface modification and 3D fabrication techniques to prepare patterned poly(L-lactide) substrates allowing regionally selective cell adhesion. Journal of Biomaterials Science, Polymer Edition, 1998, 9, 89-110.	1.9	300
17	A Microscale In Vitro Physiological Model of the Liver: Predictive Screens for Drug Metabolism and Enzyme Induction. Current Drug Metabolism, 2005, 6, 569-591.	0.7	292
18	Co-regulation of cell adhesion by nanoscale RGD organization and mechanical stimulus. Journal of Cell Science, 2002, 115, 1423-33.	1.2	282

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19	Tethered Epidermal Growth Factor Provides a Survival Advantage to Mesenchymal Stem Cells. <i>Stem Cells</i> , 2007, 25, 1241-1251.	1.4	258
20	Epidermal growth factor (EGF)-like repeats of human tenascin-C as ligands for EGF receptor. <i>Journal of Cell Biology</i> , 2001, 154, 459-468.	2.3	255
21	Epidermal Growth Factor as a Candidate for Ex Vivo Expansion of Bone Marrow-Derived Mesenchymal Stem Cells. <i>Stem Cells</i> , 2006, 24, 686-695.	1.4	245
22	Growth factor regulation of proliferation and survival of multipotential stromal cells. <i>Stem Cell Research and Therapy</i> , 2010, 1, 32.	2.4	237
23	A mouse-human phase 1 co-clinical trial of a protease-activated fluorescent probe for imaging cancer. <i>Science Translational Medicine</i> , 2016, 8, 320ra4.	5.8	224
24	Functional Behavior of Primary Rat Liver Cells in a Three-Dimensional Perfused Microarray Bioreactor. <i>Tissue Engineering</i> , 2002, 8, 499-513.	4.9	221
25	Synthesis and Characterization of Enzymatically-Cross-Linked Poly(ethylene glycol) Hydrogels. <i>Macromolecules</i> , 1997, 30, 5255-5264.	2.2	190
26	Nanoscale Clustering of RGD Peptides at Surfaces Using Comb Polymers. 1. Synthesis and Characterization of Comb Thin Films. <i>Biomacromolecules</i> , 2001, 2, 85-94.	2.6	182
27	Transport-mediated angiogenesis in 3D epithelial coculture. <i>FASEB Journal</i> , 2009, 23, 2155-2164.	0.2	179
28	Integrated Gut and Liver Microphysiological Systems for Quantitative In Vitro Pharmacokinetic Studies. <i>AAPS Journal</i> , 2017, 19, 1499-1512.	2.2	177
29	Quantitative comparison of polyethylenimine formulations and adenoviral vectors in terms of intracellular gene delivery processes. <i>Gene Therapy</i> , 2005, 12, 1023-1032.	2.3	173
30	Liver "organ on a chip"™. <i>Experimental Cell Research</i> , 2018, 363, 15-25.	1.2	165
31	Extracellular matrix signaling through growth factor receptors during wound healing. <i>Wound Repair and Regeneration</i> , 2004, 12, 262-268.	1.5	155
32	Combinatorial Modification of Degradable Polymers Enables Transfection of Human Cells Comparable to Adenovirus. <i>Advanced Materials</i> , 2007, 19, 2836-2842.	11.1	151
33	Integrated gut/liver microphysiological systems elucidates inflammatory inter-tissue crosstalk. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2648-2659.	1.7	151
34	Menstruation: science and society. <i>American Journal of Obstetrics and Gynecology</i> , 2020, 223, 624-664.	0.7	149
35	Biophysical Integration of Effects of Epidermal Growth Factor and Fibronectin on Fibroblast Migration. <i>Biophysical Journal</i> , 1999, 76, 2814-2823.	0.2	146
36	Liver tissue engineering in the evaluation of drug safety. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2009, 5, 1159-1174.	1.5	143

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37	<i>In Vitro</i> Organogenesis of Liver Tissue ^a . <i>Annals of the New York Academy of Sciences</i> , 1997, 831, 382-397.	1.8	142
38	Reduced Proteolytic Shedding of Receptor Tyrosine Kinases Is a Post-Translational Mechanism of Kinase Inhibitor Resistance. <i>Cancer Discovery</i> , 2016, 6, 382-399.	7.7	139
39	Simulations of Cell-Surface Integrin Binding to Nanoscale-Clustered Adhesion Ligands. <i>Biophysical Journal</i> , 2002, 82, 120-132.	0.2	133
40	Nanoscale Clustering of RGD Peptides at Surfaces Using Comb Polymers. 2. Surface Segregation of Comb Polymers in Polylactide. <i>Biomacromolecules</i> , 2001, 2, 545-556.	2.6	132
41	Genetically engineering self-organization of human pluripotent stem cells into a liver bud-like tissue using Gata6. <i>Nature Communications</i> , 2016, 7, 10243.	5.8	128
42	Synergistic drug-cytokine induction of hepatocellular death as an in vitro approach for the study of inflammation-associated idiosyncratic drug hepatotoxicity. <i>Toxicology and Applied Pharmacology</i> , 2009, 237, 317-330.	1.3	127
43	Molecular Network Analysis of Endometriosis Reveals a Role for c-Jun-Regulated Macrophage Activation. <i>Science Translational Medicine</i> , 2014, 6, 222ra16.	5.8	124
44	Research Priorities for Endometriosis: Recommendations From a Global Consortium of Investigators in Endometriosis. <i>Reproductive Sciences</i> , 2017, 24, 202-226.	1.1	124
45	Enhanced ex vivo expansion of adult mesenchymal stem cells by fetal mesenchymal stem cell ECM. <i>Biomaterials</i> , 2014, 35, 4046-4057.	5.7	123
46	Biology-inspired microphysiological systems to advance medicines for patient benefit and animal welfare. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2020, 37, 365-394.	0.9	123
47	Bioreactor technologies to support liver function in vitro. <i>Advanced Drug Delivery Reviews</i> , 2014, 69-70, 132-157.	6.6	116
48	Gut-Liver Physiomechanics Reveal Paradoxical Modulation of IBD-Related Inflammation by Short-Chain Fatty Acids. <i>Cell Systems</i> , 2020, 10, 223-239.e9.	2.9	115
49	Perspective: The promise of multi-cellular engineered living systems. <i>APL Bioengineering</i> , 2018, 2, 040901.	3.3	110
50	Human Vascular Tissue Models Formed from Human Induced Pluripotent Stem Cell Derived Endothelial Cells. <i>Stem Cell Reviews and Reports</i> , 2015, 11, 511-525.	5.6	107
51	Fully synthetic matrices for in vitro culture of primary human intestinal enteroids and endometrial organoids. <i>Biomaterials</i> , 2020, 254, 120125.	5.7	106
52	Microdistribution of substratum-bound ligands affects cell function: hepatocyte spreading on PEO-tethered galactose. <i>Biomaterials</i> , 1998, 19, 979-986.	5.7	103
53	Osteoblast response to PLGA tissue engineering scaffolds with PEO modified surface chemistries and demonstration of patterned cell response. <i>Biomaterials</i> , 2004, 25, 2819-2830.	5.7	101
54	Rat liver sinusoidal endothelial cells survive without exogenous VEGF in 3D perfused co-cultures with hepatocytes. <i>FASEB Journal</i> , 2007, 21, 2564-2579.	0.2	101

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55	Marrow-derived stem cell motility in 3D synthetic scaffold is governed by geometry along with adhesivity and stiffness. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1181-1193.	1.7	101
56	Quantitative Assessment of Population Variability in Hepatic Drug Metabolism Using a Perfused Three-Dimensional Human Liver Microphysiological System. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017, 360, 95-105.	1.3	98
57	Targeting the Lymphotoxin- β Receptor with Agonist Antibodies as a Potential Cancer Therapy. <i>Cancer Research</i> , 2006, 66, 9617-9624.	0.4	95
58	Comparison of tethered star and linear poly(ethylene oxide) for control of biomaterials surface properties. , 1998, 40, 498-509.		94
59	Control and Prediction of Gelation Kinetics in Enzymatically Cross-Linked Poly(ethylene glycol) Hydrogels. <i>Macromolecules</i> , 2000, 33, 5476-5480.	2.2	94
60	Creation of Stable Poly(ethylene oxide) Surfaces on Poly(methyl methacrylate) Using Blends of Branched and Linear Polymers. <i>Macromolecules</i> , 1997, 30, 6947-6956.	2.2	91
61	Covalent Modification of Synthetic Hydrogels with Bioactive Proteins via Sortase-Mediated Ligation. <i>Biomacromolecules</i> , 2015, 16, 2316-2326.	2.6	88
62	Cell-substratum adhesion strength as a determinant of hepatocyte aggregate morphology. , 1997, 53, 415-426.		87
63	β 1 integrin and erythropoietin mediate temporally distinct steps in erythropoiesis: integrins in red cell development. <i>Journal of Cell Biology</i> , 2007, 177, 871-880.	2.3	84
64	An Engineered Bivalent Neuregulin Protects Against Doxorubicin-Induced Cardiotoxicity With Reduced Proneoplastic Potential. <i>Circulation</i> , 2013, 128, 152-161.	1.6	84
65	On-demand dissolution of modular, synthetic extracellular matrix reveals local epithelial-stromal communication networks. <i>Biomaterials</i> , 2017, 130, 90-103.	5.7	83
66	ADAM-10 and -17 regulate endometriotic cell migration via concerted ligand and receptor shedding feedback on kinase signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2074-83.	3.3	80
67	Peritoneal fluid cytokines related to endometriosis in patients evaluated for infertility. <i>Fertility and Sterility</i> , 2017, 107, 1191-1199.e2.	0.5	80
68	Genetic circuit design automation for the gut resident species <i>Bacteroides thetaiotaomicron</i> . <i>Nature Biotechnology</i> , 2020, 38, 962-969.	9.4	79
69	A microenvironment-inspired synthetic three-dimensional model for pancreatic ductal adenocarcinoma organoids. <i>Nature Materials</i> , 2022, 21, 110-119.	13.3	79
70	Modeling Therapeutic Antibody-Small Molecule Drug-Drug Interactions Using a Three-Dimensional Perfusable Human Liver Coculture Platform. <i>Drug Metabolism and Disposition</i> , 2016, 44, 1940-1948.	1.7	78
71	Proteolytic Activity Matrix Analysis (PrAMA) for simultaneous determination of multiple protease activities. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 422-438.	0.6	77
72	Enhancing Protease Activity Assay in Droplet-Based Microfluidics Using a Biomolecule Concentrator. <i>Journal of the American Chemical Society</i> , 2011, 133, 10368-10371.	6.6	77

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73	Liver metastases: Microenvironments and <i>in vivo</i> models. <i>Experimental Biology and Medicine</i> , 2016, 241, 1639-1652.	1.1	77
74	Design, modeling and fabrication of a constant flow pneumatic micropump. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 891-899.	1.5	76
75	Multiplexed Protease Activity Assay for Low-Volume Clinical Samples Using Droplet-Based Microfluidics and Its Application to Endometriosis. <i>Journal of the American Chemical Society</i> , 2013, 135, 1645-1648.	6.6	76
76	The Dormancy Dilemma: Quiescence versus Balanced Proliferation. <i>Cancer Research</i> , 2013, 73, 3811-3816.	0.4	76
77	Spontaneous dormancy of metastatic breast cancer cells in an all human liver microphysiologic system. <i>British Journal of Cancer</i> , 2014, 111, 2342-2350.	2.9	76
78	Metabolite Profiling and Pharmacokinetic Evaluation of Hydrocortisone in a Perfused Three-Dimensional Human Liver Bioreactor. <i>Drug Metabolism and Disposition</i> , 2015, 43, 1091-1099.	1.7	76
79	Gene Delivery Properties of End-Modified Poly(β -amino ester)s. <i>Bioconjugate Chemistry</i> , 2007, 18, 1887-1896.	1.8	75
80	Novel Three-Dimensional Organotypic Liver Bioreactor to Directly Visualize Early Events in Metastatic Progression. <i>Advances in Cancer Research</i> , 2007, 97, 225-246.	1.9	74
81	Human physiologic model integrating microphysiological systems of the gut, liver, and brain for studies of neurodegenerative diseases. <i>Science Advances</i> , 2021, 7, .	4.7	73
82	Local remodeling of synthetic extracellular matrix microenvironments by co-cultured endometrial epithelial and stromal cells enables long-term dynamic physiological function. <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 271-289.	0.6	72
83	Cell surface restriction of EGFR by a tenascin cytotactin-encoded EGF-like repeat is preferential for motility-related signaling. <i>Journal of Cellular Physiology</i> , 2008, 214, 504-512.	2.0	70
84	OrgaQuant: Human Intestinal Organoid Localization and Quantification Using Deep Convolutional Neural Networks. <i>Scientific Reports</i> , 2019, 9, 12479.	1.6	70
85	An inducible autocrine cascade regulates rat hepatocyte proliferation and apoptosis responses to tumor necrosis factor- α . <i>Hepatology</i> , 2008, 48, 276-288.	3.6	69
86	Photopatterning of hydrogel scaffolds coupled to filter materials using stereolithography for perfused 3D culture of hepatocytes. <i>Biotechnology and Bioengineering</i> , 2015, 112, 777-787.	1.7	67
87	Interplay Between PEO Tether Length and Ligand Spacing Governs Cell Spreading on RGD-Modified PMMA-g-PEO Comb Copolymers. <i>Biomacromolecules</i> , 2007, 8, 3206-3213.	2.6	66
88	Clonal expansion of adult rat hepatic stem cell lines by suppression of asymmetric cell kinetics (SACK). <i>Biotechnology and Bioengineering</i> , 2003, 83, 760-771.	1.7	64
89	Sustained epidermal growth factor receptor levels and activation by tethered ligand binding enhances osteogenic differentiation of multipotent marrow stromal cells. <i>Journal of Cellular Physiology</i> , 2009, 221, 306-317.	2.0	64
90	Who's got pull around here? Cell organization in development and tissue engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 4282-4284.	3.3	62

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91	A Chemoselective Approach to Grafting Biodegradable Polyesters. <i>Macromolecules</i> , 2005, 38, 216-219.	2.2	61
92	Dual Responsiveness of a Tunable Thermosensitive Polypeptide. <i>ACS Macro Letters</i> , 2012, 1, 727-731.	2.3	60
93	Folding artificial mucosa with cell-laden hydrogels guided by mechanics models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7503-7508.	3.3	60
94	Multi-functional scaling methodology for translational pharmacokinetic and pharmacodynamic applications using integrated microphysiological systems (MPS). <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 290-302.	0.6	58
95	Engineering PEG-based hydrogels to foster efficient endothelial network formation in free-swelling and confined microenvironments. <i>Biomaterials</i> , 2020, 243, 119921.	5.7	57
96	Integrated Assessment of Diclofenac Biotransformation, Pharmacokinetics, and Omics-Based Toxicity in a Three-Dimensional Human Liver-Immunocompetent Coculture System. <i>Drug Metabolism and Disposition</i> , 2017, 45, 855-866.	1.7	56
97	Adhesion-guided in vitro morphogenesis in pure and mixed cell cultures. <i>Microscopy Research and Technique</i> , 1998, 43, 379-384.	1.2	55
98	Cytokine-associated drug toxicity in human hepatocytes is associated with signaling network dysregulation. <i>Molecular BioSystems</i> , 2010, 6, 1195.	2.9	55
99	Intraoperative detection and removal of microscopic residual sarcoma using wide-field imaging. <i>Cancer</i> , 2012, 118, 5320-5330.	2.0	55
100	Primary Human Colonic Mucosal Barrier Crosstalk with Super Oxygen-Sensitive <i>Faecalibacterium prausnitzii</i> in Continuous Culture. <i>Med</i> , 2021, 2, 74-98.e9.	2.2	55
101	ADAM9 Inhibition Increases Membrane Activity of ADAM10 and Controls β -Secretase Processing of Amyloid Precursor Protein. <i>Journal of Biological Chemistry</i> , 2011, 286, 40443-40451.	1.6	54
102	Functionalized self-assembling peptide hydrogel enhance maintenance of hepatocyte activity <i>in vitro</i> . <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 3387-3397.	1.6	53
103	A process engineering approach to increase organoid yield. <i>Development (Cambridge)</i> , 2017, 144, 1128-1136.	1.2	51
104	A microphysiological system model of therapy for liver micrometastases. <i>Experimental Biology and Medicine</i> , 2014, 239, 1170-1179.	1.1	48
105	Engineering liver. <i>Hepatology</i> , 2014, 60, 1426-1434.	3.6	46
106	Multipathway Kinase Signatures of Multipotent Stromal Cells Are Predictive for Osteogenic Differentiation. <i>Stem Cells</i> , 2009, 27, 2804-2814.	1.4	45
107	Synergistic effects of tethered growth factors and adhesion ligands on DNA synthesis and function of primary hepatocytes cultured on soft synthetic hydrogels. <i>Biomaterials</i> , 2010, 31, 4657-4671.	5.7	43
108	A Model of Dormant-Emergent Metastatic Breast Cancer Progression Enabling Exploration of Biomarker Signatures. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 619-630.	2.5	43

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109	Functional modification of biodegradable polyesters through a chemoselective approach: application to biomaterial surfaces. <i>Polymer International</i> , 2006, 55, 1385-1397.	1.6	42
110	Production of Reactive Oxygen Species by Multipotent Stromal Cells/Mesenchymal Stem Cells upon Exposure to Fas Ligand. <i>Cell Transplantation</i> , 2012, 21, 2171-2187.	1.2	42
111	Carbon dioxide extraction of residual chloroform from biodegradable polymers. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 63, 567-576.	3.0	40
112	Approaches to in vitro tissue regeneration with application for human disease modeling and drug development. <i>Drug Discovery Today</i> , 2014, 19, 754-762.	3.2	39
113	Three dimensional human small intestine models for ADME-Tox studies. <i>Drug Discovery Today</i> , 2014, 19, 1587-1594.	3.2	36
114	The influence of tethered epidermal growth factor on connective tissue progenitor colony formation. <i>Biomaterials</i> , 2009, 30, 4629-4638.	5.7	35
115	Autocrine-Controlled Formation and Function of Tissue-Like Aggregates by Primary Hepatocytes in Micropatterned Hydrogel Arrays. <i>Tissue Engineering - Part A</i> , 2011, 17, 1055-1068.	1.6	35
116	Interrogating Signaling Nodes Involved in Cellular Transformations Using Kinase Activity Probes. <i>Chemistry and Biology</i> , 2012, 19, 210-217.	6.2	35
117	The Vaginal Microbiome as a Tool to Predict rASRM Stage of Disease in Endometriosis: a Pilot Study. <i>Reproductive Sciences</i> , 2020, 27, 1064-1073.	1.1	35
118	Helix versus coil polypeptide macromers: gel networks with decoupled stiffness and permeability. <i>Soft Matter</i> , 2012, 8, 10887.	1.2	33
119	ADAM10 Sheddase Activity is a Potential Lung-Cancer Biomarker. <i>Journal of Cancer</i> , 2018, 9, 2559-2570.	1.2	30
120	Analysis of an Integrated Human Multiorgan Microphysiological System for Combined Tolcapone Metabolism and Brain Metabolomics. <i>Analytical Chemistry</i> , 2019, 91, 8667-8675.	3.2	30
121	Advances in Biomedical Engineering. <i>JAMA - Journal of the American Medical Association</i> , 2001, 285, 556.	3.8	28
122	Coculture of primary human colon monolayer with human gut bacteria. <i>Nature Protocols</i> , 2021, 16, 3874-3900.	5.5	28
123	Transport and shear in a microfluidic membrane bilayer device for cell culture. <i>Biomicrofluidics</i> , 2011, 5, 22213.	1.2	25
124	Lipids promote survival, proliferation, and maintenance of differentiation of rat liver sinusoidal endothelial cells in vitro. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 302, G375-G388.	1.6	25
125	Uncharged Helical Modular Polypeptide Hydrogels for Cellular Scaffolds. <i>Biomacromolecules</i> , 2015, 16, 3774-3783.	2.6	25
126	Targeting autocrine HB-EGF signaling with specific ADAM12 inhibition using recombinant ADAM12 prodomain. <i>Scientific Reports</i> , 2015, 5, 15150.	1.6	24

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127	Engineered Bivalent Ligands to Bias ErbB Receptor-mediated Signaling and Phenotypes. <i>Journal of Biological Chemistry</i> , 2011, 286, 27729-27740.	1.6	23
128	Tailoring Chimeric Ligands for Studying and Biasing ErbB Receptor Family Interactions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2662-2666.	7.2	23
129	Engineering Helical Modular Polypeptide-Based Hydrogels as Synthetic Extracellular Matrices for Cell Culture. <i>Biomacromolecules</i> , 2020, 21, 566-580.	2.6	23
130	Chain Conformations at the Surface of a Polydisperse Amphiphilic Comb Copolymer Film. <i>Macromolecules</i> , 2006, 39, 5122-5126.	2.2	21
131	Adenoviral vector saturates Akt pro-survival signaling and blocks insulin-mediated rescue of tumor-necrosis-factor-induced apoptosis. <i>Journal of Cell Science</i> , 2006, 119, 3788-3798.	1.2	21
132	Fusing Tissue Engineering and Systems Biology Toward Fulfilling Their Promise. <i>Cellular and Molecular Bioengineering</i> , 2008, 1, 33-41.	1.0	21
133	Regenerating the cell resistance of micromolded PEG hydrogels. <i>Lab on A Chip</i> , 2015, 15, 2073-2089.	3.1	19
134	Establishing quasi-steady state operations of microphysiological systems (MPS) using tissue-specific metabolic dependencies. <i>Scientific Reports</i> , 2018, 8, 8015.	1.6	19
135	IP-10 (CXCL10) Can Trigger Emergence of Dormant Breast Cancer Cells in a Metastatic Liver Microenvironment. <i>Frontiers in Oncology</i> , 2021, 11, 676135.	1.3	19
136	Three-kinase inhibitor combination recreates multipathway effects of a geldanamycin analogue on hepatocellular carcinoma cell death. <i>Molecular Cancer Therapeutics</i> , 2009, 8, 2183-2192.	1.9	18
137	Multilayer thin-film coatings capable of extended programmable drug release: application to human mesenchymal stem cell differentiation. <i>Drug Delivery and Translational Research</i> , 2012, 2, 375-383.	3.0	18
138	Endometrioma, the follicular fluid inflammatory network and its association with oocyte and embryo characteristics. <i>Reproductive BioMedicine Online</i> , 2020, 40, 399-408.	1.1	18
139	Formation of osteogenic colonies on well-defined adhesion peptides by freshly isolated human marrow cells. <i>Biomaterials</i> , 2007, 28, 1847-1861.	5.7	17
140	Controlling multipotent stromal cell migration by integrating α -course-graining materials and α -fine-tuning small molecules via decision tree signal-response modeling. <i>Biomaterials</i> , 2011, 32, 7524-7531.	5.7	17
141	Co-regulation of primary mouse hepatocyte viability and function by oxygen and matrix. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1018-1027.	1.7	17
142	Tethering of Epidermal Growth Factor (EGF) to Beta Tricalcium Phosphate (β TCP) via Fusion to a High Affinity, Multimeric β TCP-Binding Peptide: Effects on Human Multipotent Stromal Cells/Connective Tissue Progenitors. <i>PLoS ONE</i> , 2015, 10, e0129600.	1.1	15
143	Quantitative Label-Free Imaging of 3D Vascular Networks Self-Assembled in Synthetic Hydrogels. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801186.	3.9	15
144	Tresyl-Mediated Synthesis: Kinetics of Competing Coupling and Hydrolysis Reactions as a Function of pH, Temperature, and Steric Factors. <i>Bioconjugate Chemistry</i> , 1999, 10, 213-220.	1.8	14

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145	Chemoproteomics of matrix metalloproteases in a model of cartilage degeneration suggests functional biomarkers associated with posttraumatic osteoarthritis. <i>Journal of Biological Chemistry</i> , 2018, 293, 11459-11469.	1.6	14
146	High resolution stereolithography fabrication of perfusable scaffolds to enable long-term meso-scale hepatic culture for disease modeling. <i>Biofabrication</i> , 2021, 13, 045024.	3.7	12
147	Design Principles for SuCESsFul Biosensors: Specific Fluorophore/Analyte Binding and Minimization of Fluorophore/Scaffold Interactions. <i>Journal of Molecular Biology</i> , 2016, 428, 4228-4241.	2.0	11
148	PiFlow: A biocompatible low-cost programmable dynamic flow pumping system utilizing a Raspberry Pi Zero and commercial piezoelectric pumps. <i>HardwareX</i> , 2018, 4, e00034.	1.1	11
149	Physiomimetic Models of Adenomyosis. <i>Seminars in Reproductive Medicine</i> , 2020, 38, 179-196.	0.5	11
150	Application of a gut-immune co-culture system for the study of N-glycan-dependent host-pathogen interactions of <i>Campylobacter jejuni</i> . <i>Glycobiology</i> , 2020, 30, 374-381.	1.3	11
151	A modular polymer microbead angiogenesis scaffold to characterize the effects of adhesion ligand density on angiogenic sprouting. <i>Biomaterials</i> , 2021, 264, 120231.	5.7	11
152	Endometrial cytokines in patients with and without endometriosis evaluated for infertility. <i>Fertility and Sterility</i> , 2022, 117, 629-640.	0.5	11
153	A multipathway phosphoproteomic signaling network model of idiosyncratic drug- and inflammatory cytokine-induced toxicity in human hepatocytes. , 2009, 2009, 5452-5.		8
154	Development and Application of the Metalloprotease Activity Multiplexed Bead-Based Immunoassay (MAMBI). <i>Biochemistry</i> , 2019, 58, 3938-3942.	1.2	7
155	Flux-Biased, Energy-Efficient Electromagnetic Micropumps Utilizing Bistable Magnetic Latching and Energy-Storage Springs. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 2362-2372.	3.7	7
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