

Heather Fleming

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

9,485
citations

94433

37
h-index

182427

51
g-index

56
all docs

56
docs citations

56
times ranked

13554
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid casting of patterned vascular networks for perfusable engineered three-dimensional tissues. <i>Nature Materials</i> , 2012, 11, 768-774.	27.5	1,661
2	Microscale culture of human liver cells for drug development. <i>Nature Biotechnology</i> , 2008, 26, 120-126.	17.5	1,088
3	Potential role of intratumor bacteria in mediating tumor resistance to the chemotherapeutic drug gemcitabine. <i>Science</i> , 2017, 357, 1156-1160.	12.6	1,059
4	Effect of cell-cell interactions in preservation of cellular phenotype: cocultivation of hepatocytes and nonparenchymal cells. <i>FASEB Journal</i> , 1999, 13, 1883-1900.	0.5	827
5	Magnetic Iron Oxide Nanoworms for Tumor Targeting and Imaging. <i>Advanced Materials</i> , 2008, 20, 1630-1635.	21.0	516
6	Micromechanical control of cell-cell interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5722-5726.	7.1	353
7	Renal clearable catalytic gold nanoclusters for in vivo disease monitoring. <i>Nature Nanotechnology</i> , 2019, 14, 883-890.	31.5	333
8	Programmable probiotics for detection of cancer in urine. <i>Science Translational Medicine</i> , 2015, 7, 289ra84.	12.4	326
9	Cell and tissue engineering for liver disease. <i>Science Translational Medicine</i> , 2014, 6, 245sr2.	12.4	247
10	Geometric control of vascular networks to enhance engineered tissue integration and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7586-7591.	7.1	237
11	Identification of small molecules for human hepatocyte expansion and iPS differentiation. <i>Nature Chemical Biology</i> , 2013, 9, 514-520.	8.0	230
12	Mass-encoded synthetic biomarkers for multiplexed urinary monitoring of disease. <i>Nature Biotechnology</i> , 2013, 31, 63-70.	17.5	176
13	Point-of-care diagnostics for noncommunicable diseases using synthetic urinary biomarkers and paper microfluidics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3671-3676.	7.1	167
14	Targeted Tumor-Penetrating siRNA Nanocomplexes for Credentialing the Ovarian Cancer Oncogene <i>CD44</i> . <i>Science Translational Medicine</i> , 2012, 4, 147ra112.	12.4	157
15	Acidification of Tumor at Stromal Boundaries Drives Transcriptome Alterations Associated with Aggressive Phenotypes. <i>Cancer Research</i> , 2019, 79, 1952-1966.	0.9	157
16	Humanized mice with ectopic artificial liver tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11842-11847.	7.1	144
17	Development of Light-Activated CRISPR Using Guide RNAs with Photocleavable Protectors. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12440-12444.	13.8	144
18	In situ expansion of engineered human liver tissue in a mouse model of chronic liver disease. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	133

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19	InVERT molding for scalable control of tissue microarchitecture. <i>Nature Communications</i> , 2013, 4, 1847.	12.8	124
20	Neuron-Targeted Nanoparticle for siRNA Delivery to Traumatic Brain Injuries. <i>ACS Nano</i> , 2016, 10, 7926-7933.	14.6	110
21	Synthetic and living micropropellers for convection-enhanced nanoparticle transport. <i>Science Advances</i> , 2019, 5, eaav4803.	10.3	109
22	Nanoparticles That Sense Thrombin Activity As Synthetic Urinary Biomarkers of Thrombosis. <i>ACS Nano</i> , 2013, 7, 9001-9009.	14.6	98
23	Ultrasensitive tumour-penetrating nanosensors of protease activity. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	94
24	Synthetic biomarkers: a twenty-first century path to early cancer detection. <i>Nature Reviews Cancer</i> , 2021, 21, 655-668.	28.4	84
25	Harnessing Protease Activity to Improve Cancer Care. <i>Annual Review of Cancer Biology</i> , 2018, 2, 353-376.	4.5	70
26	Identification and Characterization of Receptor-Specific Peptides for siRNA Delivery. <i>ACS Nano</i> , 2012, 6, 8620-8631.	14.6	68
27	Degradable hydrogels derived from PEG- ϵ -diacrylamide for hepatic tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3331-3338.	4.0	62
28	Engineering synthetic breath biomarkers for respiratory disease. <i>Nature Nanotechnology</i> , 2020, 15, 792-800.	31.5	59
29	Urinary detection of lung cancer in mice via noninvasive pulmonary protease profiling. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	58
30	Classification of prostate cancer using a protease activity nanosensor library. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8954-8959.	7.1	53
31	iRGD-guided Tumor-penetrating Nanocomplexes for Therapeutic siRNA Delivery to Pancreatic Cancer. <i>Molecular Cancer Therapeutics</i> , 2018, 17, 2377-2388.	4.1	52
32	Activity-Based Diagnostics: An Emerging Paradigm for Disease Detection and Monitoring. <i>Trends in Molecular Medicine</i> , 2020, 26, 450-468.	6.7	51
33	Disease Detection by Ultrasensitive Quantification of Microdosed Synthetic Urinary Biomarkers. <i>Journal of the American Chemical Society</i> , 2014, 136, 13709-13714.	13.7	50
34	Mathematical framework for activity-based cancer biomarkers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12627-12632.	7.1	50
35	A computational framework for identifying design guidelines to increase the penetration of targeted nanoparticles into tumors. <i>Nano Today</i> , 2013, 8, 566-576.	11.9	43
36	Microenvironment-triggered multimodal precision diagnostics. <i>Nature Materials</i> , 2021, 20, 1440-1448.	27.5	42

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37	Engineered Livers for Infectious Diseases. Cellular and Molecular Gastroenterology and Hepatology, 2018, 5, 131-144.	4.5	41
38	Transient Support from Fibroblasts is Sufficient to Drive Functional Vascularization in Engineered Tissues. Advanced Functional Materials, 2020, 30, 2003777.	14.9	38
39	Non-viral delivery of CRISPR/Cas9 complex using CRISPR-GPS nanocomplexes. Nanoscale, 2019, 11, 21317-21323.	5.6	34
40	Distinct Hepatic Gene Expression Patterns of NAFLD in Patients With Obesity. Hepatology Communications, 2022, 6, 77-89.	4.3	25
41	Protease activity sensors noninvasively classify bacterial infections and antibiotic responses. EBioMedicine, 2018, 38, 248-256.	6.1	22
42	Tumor-Penetrating Delivery of siRNA against TNF α to Human Vestibular Schwannomas. Scientific Reports, 2017, 7, 12922.	3.3	15
43	Activatable Zymography Probes Enable <i>In Situ</i> Localization of Protease Dysregulation in Cancer. Cancer Research, 2021, 81, 213-224.	0.9	15
44	Comparison of Modular PEG Incorporation Strategies for Stabilization of Peptide-siRNA Nanocomplexes. Bioconjugate Chemistry, 2016, 27, 2323-2331.	3.6	14
45	Controlled Apoptosis of Stromal Cells to Engineer Human Microlivers. Advanced Functional Materials, 2020, 30, 1910442.	14.9	9
46	Host protease activity classifies pneumonia etiology. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	9
47	Synthetic Circuit-Driven Expression of Heterologous Enzymes for Disease Detection. ACS Synthetic Biology, 2021, 10, 2231-2242.	3.8	5
48	Protease activity sensors enable real-time treatment response monitoring in lymphangi leiomyomatosis. European Respiratory Journal, 2022, 59, 2100664.	6.7	5
49	Directing Cholangiocyte Morphogenesis in Natural Biomaterial Scaffolds. Advanced Science, 2022, 9, e2102698.	11.2	5
50	Prenatal detection and mapping of a distal 8p deletion associated with congenital heart disease. Prenatal Diagnosis, 1999, 19, 863-7.	2.3	4
51	Hepatic tissue engineering. , 2020, , 737-753.		3
52	Protease Activity Analysis: A Toolkit for Analyzing Enzyme Activity Data. ACS Omega, 2022, 7, 24292-24301.	3.5	3