

Amanda X Chen

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

12,595
citations

57758

44
h-index

48315

88
g-index

96
all docs

96
docs citations

96
times ranked

17339
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidic organs-on-chips. <i>Nature Biotechnology</i> , 2014, 32, 760-772.	17.5	2,468
2	Rapid casting of patterned vascular networks for perfusable engineered three-dimensional tissues. <i>Nature Materials</i> , 2012, 11, 768-774.	27.5	1,661
3	Microscale culture of human liver cells for drug development. <i>Nature Biotechnology</i> , 2008, 26, 120-126.	17.5	1,088
4	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts. <i>Journal of Biomedical Materials Research Part B</i> , 1997, 34, 189-199.	3.1	496
5	Synchronized cycles of bacterial lysis for in vivo delivery. <i>Nature</i> , 2016, 536, 81-85.	27.8	487
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	Programmable probiotics for detection of cancer in urine. <i>Science Translational Medicine</i> , 2015, 7, 289ra84.	12.4	326
8	A long-duration dihydroorotate dehydrogenase inhibitor (DSM265) for prevention and treatment of malaria. <i>Science Translational Medicine</i> , 2015, 7, 296ra111.	12.4	254
9	Cell and tissue engineering for liver disease. <i>Science Translational Medicine</i> , 2014, 6, 245sr2.	12.4	247
10	CRISPR/Cas9 cleavage of viral DNA efficiently suppresses hepatitis B virus. <i>Scientific Reports</i> , 2015, 5, 10833.	3.3	245
11	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
12	A human monoclonal antibody prevents malaria infection by targeting a new site of vulnerability on the parasite. <i>Nature Medicine</i> , 2018, 24, 408-416.	30.7	235
13	Identification of small molecules for human hepatocyte expansion and iPS differentiation. <i>Nature Chemical Biology</i> , 2013, 9, 514-520.	8.0	230
14	Deep, noninvasive imaging and surgical guidance of submillimeter tumors using targeted M13-stabilized single-walled carbon nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13948-13953.	7.1	221
15	Modeling host interactions with hepatitis B virus using primary and induced pluripotent stem cell-derived hepatocellular systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12193-12198.	7.1	220
16	Assessment of hepatocellular function within PEG hydrogels. <i>Biomaterials</i> , 2007, 28, 256-270.	11.4	188
17	Mass-encoded synthetic biomarkers for multiplexed urinary monitoring of disease. <i>Nature Biotechnology</i> , 2013, 31, 63-70.	17.5	176
18	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

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19	Development of Light-Activated CRISPR Using Guide RNAs with Photocleavable Protectors. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12440-12444.	13.8	144
20	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
21	Self-Sealing Porous Silicon-Calcium Silicate Core-Shell Nanoparticles for Targeted siRNA Delivery to the Injured Brain. <i>Advanced Materials</i> , 2016, 28, 7962-7969.	21.0	123
22	Micropatterned coculture of primary human hepatocytes and supportive cells for the study of hepatotropic pathogens. <i>Nature Protocols</i> , 2015, 10, 2027-2053.	12.0	119
23	Exploring interactions between rat hepatocytes and nonparenchymal cells using gene expression profiling. <i>Hepatology</i> , 2004, 40, 545-554.	7.3	118
24	In Vitro Culture, Drug Sensitivity, and Transcriptome of Plasmodium Vivax Hypnozoites. <i>Cell Host and Microbe</i> , 2018, 23, 395-406.e4.	11.0	118
25	Micropatterned Cell-Cell Interactions Enable Functional Encapsulation of Primary Hepatocytes in Hydrogel Microtissues. <i>Tissue Engineering - Part A</i> , 2014, 20, 2200-2212.	3.1	115
26	Human iPSC-Derived Hepatocyte-like Cells Support Plasmodium Liver-Stage Infection In Vitro. <i>Stem Cell Reports</i> , 2015, 4, 348-359.	4.8	109
27	Host Cell Phosphatidylcholine Is a Key Mediator of Malaria Parasite Survival during Liver Stage Infection. <i>Cell Host and Microbe</i> , 2014, 16, 778-786.	11.0	104
28	Mapping functional humoral correlates of protection against malaria challenge following RTS,S/AS01 vaccination. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	100
29	Nanoparticles That Sense Thrombin Activity As Synthetic Urinary Biomarkers of Thrombosis. <i>ACS Nano</i> , 2013, 7, 9001-9009.	14.6	98
30	Antimalarial activity of primaquine operates via a two-step biochemical relay. <i>Nature Communications</i> , 2019, 10, 3226.	12.8	94
31	Aberrant Glycosylation Promotes Lung Cancer Metastasis through Adhesion to Galectins in the Metastatic Niche. <i>Cancer Discovery</i> , 2015, 5, 168-181.	9.4	91
32	Synthetic biomarkers: a twenty-first century path to early cancer detection. <i>Nature Reviews Cancer</i> , 2021, 21, 655-668.	28.4	84
33	Porous Silicon Nanoparticle Delivery of Tandem Peptide Anti-Infectives for the Treatment of <i>Pseudomonas aeruginosa</i> Lung Infections. <i>Advanced Materials</i> , 2017, 29, 1701527.	21.0	82
34	Mechanisms of cooperation in cancer nanomedicine: towards systems nanotechnology. <i>Trends in Biotechnology</i> , 2014, 32, 448-455.	9.3	81
35	Smart nanosystems: Bio-inspired technologies that interact with the host environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14460-14466.	7.1	77
36	Evidential Deep Learning for Guided Molecular Property Prediction and Discovery. <i>ACS Central Science</i> , 2021, 7, 1356-1367.	11.3	73

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37	Steroid Hormone Function Controls Non-competitive Plasmodium Development in Anopheles. <i>Cell</i> , 2019, 177, 315-325.e14.	28.9	72
38	Harnessing Protease Activity to Improve Cancer Care. <i>Annual Review of Cancer Biology</i> , 2018, 2, 353-376.	4.5	70
39	Estrogen Activation of G-Protein-Coupled Estrogen Receptor 1 Regulates Phosphoinositide 3-Kinase and mTOR Signaling to Promote Liver Growth in Zebrafish and Proliferation of Human Hepatocytes. <i>Gastroenterology</i> , 2019, 156, 1788-1804.e13.	1.3	69
40	Two chemoattenuated PfSPZ malaria vaccines induce sterile hepatic immunity. <i>Nature</i> , 2021, 595, 289-294.	27.8	68
41	Personalized RNA Medicine for Pancreatic Cancer. <i>Clinical Cancer Research</i> , 2018, 24, 1734-1747.	7.0	67
42	Degradable hydrogels derived from PEG-diacrylamide for hepatic tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3331-3338.	4.0	62
43	A robust cell culture system supporting the complete life cycle of hepatitis B virus. <i>Scientific Reports</i> , 2017, 7, 16616.	3.3	61
44	Tâ€œadherin modulates hepatocyte functions <i>in vitro</i> . <i>FASEB Journal</i> , 2008, 22, 3768-3775.	0.5	54
45	Nanoparticle delivery of immunostimulatory oligonucleotides enhances response to checkpoint inhibitor therapeutics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13428-13436.	7.1	51
46	Activity-Based Diagnostics: An Emerging Paradigm for Disease Detection and Monitoring. <i>Trends in Molecular Medicine</i> , 2020, 26, 450-468.	6.7	51
47	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
48	Machine learning guided association of adverse drug reactions with <i>in vitro</i> target-based pharmacology. <i>EBioMedicine</i> , 2020, 57, 102837.	6.1	44
49	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
50	Engineered Livers for Infectious Diseases. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2018, 5, 131-144.	4.5	41
51	Expansion, <i>in vivo</i> â€œex vivo cycling, and genetic manipulation of primary human hepatocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1678-1688.	7.1	41
52	Transient Support from Fibroblasts is Sufficient to Drive Functional Vascularization in Engineered Tissues. <i>Advanced Functional Materials</i> , 2020, 30, 2003777.	14.9	38
53	Host AMPK Is a Modulator of Plasmodium Liver Infection. <i>Cell Reports</i> , 2016, 16, 2539-2545.	6.4	37
54	Non-viral delivery of CRISPR/Cas9 complex using CRISPR-GPS nanocomplexes. <i>Nanoscale</i> , 2019, 11, 21317-21323.	5.6	34

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55	Quantifying co-cultured cell phenotypes in high-throughput using pixel-based classification. <i>Methods</i> , 2016, 96, 6-11.	3.8	32
56	A <i>Plasmodium berghei</i> sporozoite-based vaccination platform against human malaria. <i>Npj Vaccines</i> , 2018, 3, 33.	6.0	32
57	Endothelial Thermotolerance Impairs Nanoparticle Transport in Tumors. <i>Cancer Research</i> , 2015, 75, 3255-3267.	0.9	29
58	Development of Light-Activated CRISPR Using Guide RNAs with Photocleavable Protectors. <i>Angewandte Chemie</i> , 2016, 128, 12628-12632.	2.0	29
59	A single-cell liver atlas of <i>Plasmodium vivax</i> infection. <i>Cell Host and Microbe</i> , 2022, 30, 1048-1060.e5.	11.0	29
60	Sustained Release Synthetic Biomarkers for Monitoring Thrombosis and Inflammation Using Point-of-Care Compatible Readouts. <i>Advanced Functional Materials</i> , 2016, 26, 2919-2928.	14.9	28
61	A vascularized model of the human liver mimics regenerative responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	27
62	Probing nanoantenna-directed photothermal destruction of tumors using noninvasive laser irradiation. <i>Applied Physics Letters</i> , 2009, 95, 233701.	3.3	26
63	New Methods in Tissue Engineering: Improved Models for Viral Infection. <i>Annual Review of Virology</i> , 2014, 1, 475-499.	6.7	23
64	Towards a Humanized Mouse Model of Liver Stage Malaria Using Ectopic Artificial Livers. <i>Scientific Reports</i> , 2017, 7, 45424.	3.3	23
65	Targeting liver stage malaria with metformin. <i>JCI Insight</i> , 2019, 4, .	5.0	23
66	Drug-induced amplification of nanoparticle targeting to tumors. <i>Nano Today</i> , 2014, 9, 550-559.	11.9	22
67	Protease activity sensors noninvasively classify bacterial infections and antibiotic responses. <i>EBioMedicine</i> , 2018, 38, 248-256.	6.1	22
68	Viral genome imaging of hepatitis C virus to probe heterogeneous viral infection and responses to antiviral therapies. <i>Virology</i> , 2016, 494, 236-247.	2.4	17
69	Infection of laboratory colonies of <i>Anopheles</i> mosquitoes with <i>Plasmodium vivax</i> from cryopreserved clinical isolates. <i>International Journal for Parasitology</i> , 2016, 46, 679-683.	3.1	17
70	Tumor penetrating nanomedicine targeting both an oncomiR and an oncogene in pancreatic cancer. <i>Oncotarget</i> , 2019, 10, 5349-5358.	1.8	15
71	Disruption of cell-cell contact-mediated notch signaling via hydrogel encapsulation reduces mesenchymal stem cell chondrogenic potential. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 1291-1302.	4.0	12
72	<i>In Vitro</i> Alterations Do Not Reflect a Requirement for Host Cell Cycle Progression during <i>Plasmodium</i> Liver Stage Infection. <i>Eukaryotic Cell</i> , 2015, 14, 96-103.	3.4	10

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73	Improving Drug Discovery by Nucleic Acid Delivery in Engineered Human Microlivers. <i>Cell Metabolism</i> , 2019, 29, 727-735.e3.	16.2	10
74	Controlled Apoptosis of Stromal Cells to Engineer Human Microlivers. <i>Advanced Functional Materials</i> , 2020, 30, 1910442.	14.9	9
75	Ionic Liquid-Mediated Transdermal Delivery of Thrombosis-Detecting Nanosensors. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102685.	7.6	9
76	Host protease activity classifies pneumonia etiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	9
77	High-Throughput Platform for Identifying Molecular Factors Involved in Phenotypic Stabilization of Primary Human Hepatocytes In Vitro. <i>Journal of Biomolecular Screening</i> , 2016, 21, 897-911.	2.6	8
78	Silicon Microchips for Manipulating Cell-cell Interaction. <i>Journal of Visualized Experiments</i> , 2007, , 268.	0.3	6
79	Theranostic Layer-by-Layer Nanoparticles for Simultaneous Tumor Detection and Gene Silencing. <i>Angewandte Chemie</i> , 2020, 132, 2798-2805.	2.0	5
80	Peptide Spiders: Peptide-Polymer Conjugates to Traffic Nucleic Acids. <i>Molecular Pharmaceutics</i> , 2020, 17, 3633-3642.	4.6	5
81	Directing Cholangiocyte Morphogenesis in Natural Biomaterial Scaffolds. <i>Advanced Science</i> , 2022, 9, e2102698.	11.2	5
82	Hepatic tissue engineering. , 2020, , 737-753.		3
83	Protease Activity Analysis: A Toolkit for Analyzing Enzyme Activity Data. <i>ACS Omega</i> , 2022, 7, 24292-24301.	3.5	3
84	Macro-to-Micro Interface for the Control of Cellular Organization. <i>Journal of Microelectromechanical Systems</i> , 2014, 23, 391-397.	2.5	2
85	Silicon Nanoparticles: Porous Silicon Nanoparticle Delivery of Tandem Peptide Anti-Infectives for the Treatment of <i>Pseudomonas aeruginosa</i> Lung Infections (<i>Adv. Mater.</i> 35/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	2
86	Tissue Engineering: Controlled Apoptosis of Stromal Cells to Engineer Human Microlivers (Adv.) <i>Tissue Engineering</i> , 2020, 26, 1010-1022.	14.9	2
87	Tissue Engineering of the Liver. , 2006, , 417-471.		1
88	Theranostic Layer-by-Layer Nanoparticles for Simultaneous Tumor Detection and Gene Silencing (<i>Angew. Chem.</i> 7/2020). <i>Angewandte Chemie</i> , 2020, 132, 2936-2936.	2.0	1
89	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts. , 1997, 34, 189.		1
90	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts. , 1997, 34, 189.		1

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91	Tissue Engineering of the Liver. , 0, , 933-953.		0
92	Definitive depolarization signatures in nanomedicine. , 2017, , .		0