

# 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	Directing Cholangiocyte Morphogenesis in Natural Biomaterial Scaffolds. <i>Advanced Science</i> , 2022, 9, e2102698.	11.2	5
2	Ionic Liquid-Mediated Transdermal Delivery of Thrombosis-Detecting Nanosensors. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102685.	7.6	9
3	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
4	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
5	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
6	Protease Activity Analysis: A Toolkit for Analyzing Enzyme Activity Data. <i>ACS Omega</i> , 2022, 7, 24292-24301.	3.5	3
7	Two chemoattenuated PfSPZ malaria vaccines induce sterile hepatic immunity. <i>Nature</i> , 2021, 595, 289-294.	27.8	68
8	Evidential Deep Learning for Guided Molecular Property Prediction and Discovery. <i>ACS Central Science</i> , 2021, 7, 1356-1367.	11.3	73
9	Synthetic biomarkers: a twenty-first century path to early cancer detection. <i>Nature Reviews Cancer</i> , 2021, 21, 655-668.	28.4	84
10	Theranostic Layer-by-Layer Nanoparticles for Simultaneous Tumor Detection and Gene Silencing. <i>Angewandte Chemie</i> , 2020, 132, 2798-2805.	2.0	5
11	Tissue Engineering: Controlled Apoptosis of Stromal Cells to Engineer Human Microivers (Adv.) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i> 10	14.9	2
12	Mapping functional humoral correlates of protection against malaria challenge following RTS,S/AS01 vaccination. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	100
13	Peptide Spiders: Peptide-Polymer Conjugates to Traffic Nucleic Acids. <i>Molecular Pharmaceutics</i> , 2020, 17, 3633-3642.	4.6	5
14	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
15	Controlled Apoptosis of Stromal Cells to Engineer Human Microivers. <i>Advanced Functional Materials</i> , 2020, 30, 1910442.	14.9	9
16	Transient Support from Fibroblasts is Sufficient to Drive Functional Vascularization in Engineered Tissues. <i>Advanced Functional Materials</i> , 2020, 30, 2003777.	14.9	38
17	Machine learning guided association of adverse drug reactions with in vitro target-based pharmacology. <i>EBioMedicine</i> , 2020, 57, 102837.	6.1	44
18	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

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19	Expansion, in vivo ex vivo cycling, and genetic manipulation of primary human hepatocytes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1678-1688.	7.1	41
20	Hepatic tissue engineering. , 2020, , 737-753.		3
21	Activity-Based Diagnostics: An Emerging Paradigm for Disease Detection and Monitoring. Trends in Molecular Medicine, 2020, 26, 450-468.	6.7	51
22	Antimalarial activity of primaquine operates via a two-step biochemical relay. Nature Communications, 2019, 10, 3226.	12.8	94
23	Improving Drug Discovery by Nucleic Acid Delivery in Engineered Human Microlivers. Cell Metabolism, 2019, 29, 727-735.e3.	16.2	10
24	Steroid Hormone Function Controls Non-competitive Plasmodium Development in Anopheles. Cell, 2019, 177, 315-325.e14.	28.9	72
25	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. Gastroenterology, 2019, 156, 1788-1804.e13.	1.3	69
26	Non-viral delivery of CRISPR/Cas9 complex using CRISPR-GPS nanocomplexes. Nanoscale, 2019, 11, 21317-21323.	5.6	34
27	Targeting liver stage malaria with metformin. JCI Insight, 2019, 4, .	5.0	23
28	Tumor penetrating nanomedicine targeting both an oncomiR and an oncogene in pancreatic cancer. Oncotarget, 2019, 10, 5349-5358.	1.8	15
29	In Vitro Culture, Drug Sensitivity, and Transcriptome of Plasmodium Vivax Hypnozoites. Cell Host and Microbe, 2018, 23, 395-406.e4.	11.0	118
30	Harnessing Protease Activity to Improve Cancer Care. Annual Review of Cancer Biology, 2018, 2, 353-376.	4.5	70
31	Engineered Livers for Infectious Diseases. Cellular and Molecular Gastroenterology and Hepatology, 2018, 5, 131-144.	4.5	41
32	Personalized RNA Medicine for Pancreatic Cancer. Clinical Cancer Research, 2018, 24, 1734-1747.	7.0	67
33	A human monoclonal antibody prevents malaria infection by targeting a new site of vulnerability on the parasite. Nature Medicine, 2018, 24, 408-416.	30.7	235
34	Protease activity sensors noninvasively classify bacterial infections and antibiotic responses. EBioMedicine, 2018, 38, 248-256.	6.1	22
35	A Plasmodium berghei sporozoite-based vaccination platform against human malaria. Npj Vaccines, 2018, 3, 33.	6.0	32
36	Towards a Humanized Mouse Model of Liver Stage Malaria Using Ectopic Artificial Livers. Scientific Reports, 2017, 7, 45424.	3.3	23

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37	Silicon Nanoparticles: Porous Silicon Nanoparticle Delivery of Tandem Peptide Anti-Infectives for the Treatment of <i>Pseudomonas aeruginosa</i> Lung Infections (Adv. Mater. 35/2017). Advanced Materials, 2017, 29, .	21.0	2
38	Porous Silicon Nanoparticle Delivery of Tandem Peptide Anti-Infectives for the Treatment of <i>Pseudomonas aeruginosa</i> Lung Infections. Advanced Materials, 2017, 29, 1701527.	21.0	82
39	In situ expansion of engineered human liver tissue in a mouse model of chronic liver disease. Science Translational Medicine, 2017, 9, .	12.4	133
40	A robust cell culture system supporting the complete life cycle of hepatitis B virus. Scientific Reports, 2017, 7, 16616.	3.3	61
41	Definitive depolarization signatures in nanomedicine. , 2017, , .		0
42	Sustained Release Synthetic Biomarkers for Monitoring Thrombosis and Inflammation Using Point-of-Care Compatible Readouts. Advanced Functional Materials, 2016, 26, 2919-2928.	14.9	28
43	Viral genome imaging of hepatitis C virus to probe heterogeneous viral infection and responses to antiviral therapies. Virology, 2016, 494, 236-247.	2.4	17
44	Development of Light-Activated CRISPR Using Guide RNAs with Photocleavable Protectors. Angewandte Chemie, 2016, 128, 12628-12632.	2.0	29
45	Host AMPK Is a Modulator of Plasmodium Liver Infection. Cell Reports, 2016, 16, 2539-2545.	6.4	37
46	Infection of laboratory colonies of Anopheles mosquitoes with Plasmodium vivax from cryopreserved clinical isolates. International Journal for Parasitology, 2016, 46, 679-683.	3.1	17
47	Development of Light-Activated CRISPR Using Guide RNAs with Photocleavable Protectors. Angewandte Chemie - International Edition, 2016, 55, 12440-12444.	13.8	144
48	High-Throughput Platform for Identifying Molecular Factors Involved in Phenotypic Stabilization of Primary Human Hepatocytes In Vitro. Journal of Biomolecular Screening, 2016, 21, 897-911.	2.6	8
49	Synchronized cycles of bacterial lysis for in vivo delivery. Nature, 2016, 536, 81-85.	27.8	487
50	Self-Sealing Porous Silicon-Calcium Silicate Core-Shell Nanoparticles for Targeted siRNA Delivery to the Injured Brain. Advanced Materials, 2016, 28, 7962-7969.	21.0	123
51	Quantifying co-cultured cell phenotypes in high-throughput using pixel-based classification. Methods, 2016, 96, 6-11.	3.8	32
52	CRISPR/Cas9 cleavage of viral DNA efficiently suppresses hepatitis B virus. Scientific Reports, 2015, 5, 10833.	3.3	245
53	Programmable probiotics for detection of cancer in urine. Science Translational Medicine, 2015, 7, 289ra84.	12.4	326
54	Smart nanosystems: Bio-inspired technologies that interact with the host environment. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14460-14466.	7.1	77

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55	<i>In Vitro</i> Alterations Do Not Reflect a Requirement for Host Cell Cycle Progression during Plasmodium Liver Stage Infection. <i>Eukaryotic Cell</i> , 2015, 14, 96-103.	3.4	10
56	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
57	A long-duration dihydroorotate dehydrogenase inhibitor (DSM265) for prevention and treatment of malaria. <i>Science Translational Medicine</i> , 2015, 7, 296ra111.	12.4	254
58	Endothelial Thermotolerance Impairs Nanoparticle Transport in Tumors. <i>Cancer Research</i> , 2015, 75, 3255-3267.	0.9	29
59	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
60	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
61	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
62	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
63	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
64	New Methods in Tissue Engineering: Improved Models for Viral Infection. <i>Annual Review of Virology</i> , 2014, 1, 475-499.	6.7	23
65	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
66	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
67	Mechanisms of cooperation in cancer nanomedicine: towards systems nanotechnology. <i>Trends in Biotechnology</i> , 2014, 32, 448-455.	9.3	81
68	Microfluidic organs-on-chips. <i>Nature Biotechnology</i> , 2014, 32, 760-772.	17.5	2,468
69	Cell and tissue engineering for liver disease. <i>Science Translational Medicine</i> , 2014, 6, 245sr2.	12.4	247
70	Drug-induced amplification of nanoparticle targeting to tumors. <i>Nano Today</i> , 2014, 9, 550-559.	11.9	22
71	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
72	Macro-to-Micro Interface for the Control of Cellular Organization. <i>Journal of Microelectromechanical Systems</i> , 2014, 23, 391-397.	2.5	2

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73	Modeling host interactions with hepatitis B virus using primary and induced pluripotent stem cell-derived hepatocellular systems. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12193-12198.	7.1	220
74	A computational framework for identifying design guidelines to increase the penetration of targeted nanoparticles into tumors. Nano Today, 2013, 8, 566-576.	11.9	43
75	Nanoparticles That Sense Thrombin Activity As Synthetic Urinary Biomarkers of Thrombosis. ACS Nano, 2013, 7, 9001-9009.	14.6	98
76	Mass-encoded synthetic biomarkers for multiplexed urinary monitoring of disease. Nature Biotechnology, 2013, 31, 63-70.	17.5	176
77	Identification of small molecules for human hepatocyte expansion and iPS differentiation. Nature Chemical Biology, 2013, 9, 514-520.	8.0	230
78	Geometric control of vascular networks to enhance engineered tissue integration and function. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7586-7591.	7.1	237
79	Rapid casting of patterned vascular networks for perfusable engineered three-dimensional tissues. Nature Materials, 2012, 11, 768-774.	27.5	1,661
80	Humanized mice with ectopic artificial liver tissues. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11842-11847.	7.1	144
81	Probing nanoantenna-directed photothermal destruction of tumors using noninvasive laser irradiation. Applied Physics Letters, 2009, 95, 233701.	3.3	26
82	Microscale culture of human liver cells for drug development. Nature Biotechnology, 2008, 26, 120-126.	17.5	1,088
83	E-cadherin modulates hepatocyte functions <i>in vitro</i> . FASEB Journal, 2008, 22, 3768-3775.	0.5	54
84	Micromechanical control of cell-cell interactions. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5722-5726.	7.1	353
85	Silicon Microchips for Manipulating Cell-cell Interaction. Journal of Visualized Experiments, 2007, , 268.	0.3	6
86	Assessment of hepatocellular function within PEG hydrogels. Biomaterials, 2007, 28, 256-270.	11.4	188
87	Tissue Engineering of the Liver. , 2006, , 417-471.		1
88	Exploring interactions between rat hepatocytes and nonparenchymal cells using gene expression profiling. Hepatology, 2004, 40, 545-554.	7.3	118
89	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts. Journal of Biomedical Materials Research Part B, 1997, 34, 189-199.	3.1	496
90	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts. , 1997, 34, 189.		1

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91	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts. , 1997, 34, 189.		1
92	Tissue Engineering of the Liver. , 0, , 933-953.		0