

# Amanda X Chen

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

9,597

citations

38

h-index

96

g-index

96

ext. papers

11,293

ext. citations

15

avg, IF

6.62

L-index

#	Paper	IF	Citations
88	Microfluidic organs-on-chips. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 760-72	44.5	1875
87	Rapid casting of patterned vascular networks for perfusable engineered three-dimensional tissues. <i>Nature Materials</i> , <b>2012</b> , 11, 768-74	27	1402
86	Microscale culture of human liver cells for drug development. <i>Nature Biotechnology</i> , <b>2008</b> , 26, 120-6	44.5	958
85	Controlling cell interactions by micropatterning in co-cultures: hepatocytes and 3T3 fibroblasts. <i>Journal of Biomedical Materials Research Part B</i> , <b>1997</b> , 34, 189-99		436
84	Synchronized cycles of bacterial lysis for in vivo delivery. <i>Nature</i> , <b>2016</b> , 536, 81-85	50.4	328
83	Micromechanical control of cell-cell interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 5722-6	11.5	316
82	Programmable probiotics for detection of cancer in urine. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 289ra111	17.5	238
81	Cell and tissue engineering for liver disease. <i>Science Translational Medicine</i> , <b>2014</b> , 6, 245sr2	17.5	212
80	CRISPR/Cas9 cleavage of viral DNA efficiently suppresses hepatitis B virus. <i>Scientific Reports</i> , <b>2015</b> , 5, 10833	4.9	205
79	Identification of small molecules for human hepatocyte expansion and iPS differentiation. <i>Nature Chemical Biology</i> , <b>2013</b> , 9, 514-20	11.7	201
78	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> , <b>2013</b> , 110, 7586-91	11.5	197
77	A long-duration dihydroorotate dehydrogenase inhibitor (DSM265) for prevention and treatment of malaria. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 296ra111	17.5	194
76	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> , <b>2014</b> , 111, 13948-53	11.5	183
75	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> , <b>2014</b> , 111, 12193-8	11.5	183
74	Assessment of hepatocellular function within PEG hydrogels. <i>Biomaterials</i> , <b>2007</b> , 28, 256-70	15.6	174
73	A human monoclonal antibody prevents malaria infection by targeting a new site of vulnerability on the parasite. <i>Nature Medicine</i> , <b>2018</b> , 24, 408-416	50.5	136
72	Humanized mice with ectopic artificial liver tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 11842-7	11.5	131

71	Mass-encoded synthetic biomarkers for multiplexed urinary monitoring of disease. <i>Nature Biotechnology</i> , <b>2013</b> , 31, 63-70	44.5	121
70	Exploring interactions between rat hepatocytes and nonparenchymal cells using gene expression profiling. <i>Hepatology</i> , <b>2004</b> , 40, 545-54	11.2	110
69	Micropatterned cell-cell interactions enable functional encapsulation of primary hepatocytes in hydrogel microtissues. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 2200-12	3.9	101
68	Self-Sealing Porous Silicon-Calcium Silicate Core-Shell Nanoparticles for Targeted siRNA Delivery to the Injured Brain. <i>Advanced Materials</i> , <b>2016</b> , 28, 7962-7969	24	99
67	In situ expansion of engineered human liver tissue in a mouse model of chronic liver disease. <i>Science Translational Medicine</i> , <b>2017</b> , 9,	17.5	99
66	Development of Light-Activated CRISPR Using Guide RNAs with Photocleavable Protectors. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 12440-4	16.4	97
65	Micropatterned coculture of primary human hepatocytes and supportive cells for the study of hepatotropic pathogens. <i>Nature Protocols</i> , <b>2015</b> , 10, 2027-53	18.8	92
64	Human iPSC-derived hepatocyte-like cells support Plasmodium liver-stage infection in vitro. <i>Stem Cell Reports</i> , <b>2015</b> , 4, 348-59	8	86
63	Nanoparticles that sense thrombin activity as synthetic urinary biomarkers of thrombosis. <i>ACS Nano</i> , <b>2013</b> , 7, 9001-9	16.7	77
62	Host cell phosphatidylcholine is a key mediator of malaria parasite survival during liver stage infection. <i>Cell Host and Microbe</i> , <b>2014</b> , 16, 778-86	23.4	77
61	In Vitro Culture, Drug Sensitivity, and Transcriptome of Plasmodium Vivax Hypnozoites. <i>Cell Host and Microbe</i> , <b>2018</b> , 23, 395-406.e4	23.4	70
60	Porous Silicon Nanoparticle Delivery of Tandem Peptide Anti-Infectives for the Treatment of Pseudomonas aeruginosa Lung Infections. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701527	24	62
59	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> , <b>2015</b> , 112, 14460-6	11.5	62
58	Mechanisms of cooperation in cancer nanomedicine: towards systems nanotechnology. <i>Trends in Biotechnology</i> , <b>2014</b> , 32, 448-55	15.1	59
57	Aberrant glycosylation promotes lung cancer metastasis through adhesion to galectins in the metastatic niche. <i>Cancer Discovery</i> , <b>2015</b> , 5, 168-81	24.4	55
56	Antimalarial activity of primaquine operates via a two-step biochemical relay. <i>Nature Communications</i> , <b>2019</b> , 10, 3226	17.4	55
55	Degradable hydrogels derived from PEG-diacrylamide for hepatic tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 3331-8	5.4	49
54	T-cadherin modulates hepatocyte functions in vitro. <i>FASEB Journal</i> , <b>2008</b> , 22, 3768-75	0.9	48

53	Mapping functional humoral correlates of protection against malaria challenge following RTS,S/AS01 vaccination. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	46
52	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> , <b>2019</b> , 156, 1788-1804.e13	13.3	44
51	Personalized RNA Medicine for Pancreatic Cancer. <i>Clinical Cancer Research</i> , <b>2018</b> , 24, 1734-1747	12.9	39
50	A robust cell culture system supporting the complete life cycle of hepatitis B virus. <i>Scientific Reports</i> , <b>2017</b> , 7, 16616	4.9	37
49	Harnessing Protease Activity to Improve Cancer Care. <i>Annual Review of Cancer Biology</i> , <b>2018</b> , 2, 353-376	13.3	36
48	Steroid Hormone Function Controls Non-competitive Plasmodium Development in Anopheles. <i>Cell</i> , <b>2019</b> , 177, 315-325.e14	56.2	33
47	A computational framework for identifying design guidelines to increase the penetration of targeted nanoparticles into tumors. <i>Nano Today</i> , <b>2013</b> , 8, 566-576	17.9	32
46	Mathematical framework for activity-based cancer biomarkers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 12627-32	11.5	29
45	Engineered Livers for Infectious Diseases. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2018</b> , 5, 131-144	7.9	28
44	Host AMPK Is a Modulator of Plasmodium Liver Infection. <i>Cell Reports</i> , <b>2016</b> , 16, 2539-2545	10.6	27
43	Endothelial Thermotolerance Impairs Nanoparticle Transport in Tumors. <i>Cancer Research</i> , <b>2015</b> , 75, 3255-3261	17.7	25
42	Quantifying co-cultured cell phenotypes in high-throughput using pixel-based classification. <i>Methods</i> , <b>2016</b> , 96, 6-11	4.6	24
41	Non-viral delivery of CRISPR/Cas9 complex using CRISPR-GPS nanocomplexes. <i>Nanoscale</i> , <b>2019</b> , 11, 21317-21324	17.2	24
40	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> , <b>2020</b> , 117, 13428-13436	11.5	22
39	Expansion, in vivo-ex vivo cycling, and genetic manipulation of primary human hepatocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 1678-1688	11.5	21
38	Probing nanoantenna-directed photothermal destruction of tumors using noninvasive laser irradiation. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 233701	3.4	21
37	Development of Light-Activated CRISPR Using Guide RNAs with Photocleavable Protectors. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 12628-12632	3.6	21
36	Drug-induced amplification of nanoparticle targeting to tumors. <i>Nano Today</i> , <b>2014</b> , 9, 550-559	17.9	20

35	New Methods in Tissue Engineering: Improved Models for Viral Infection. <i>Annual Review of Virology</i> , <b>2014</b> , 1, 475-499	14.6	20
34	Sustained-release synthetic biomarkers for monitoring thrombosis and inflammation using point-of-care compatible readouts. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2919-2928	15.6	20
33	Transient Support from Fibroblasts is Sufficient to Drive Functional Vascularization in Engineered Tissues. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003777	15.6	19
32	Towards a Humanized Mouse Model of Liver Stage Malaria Using Ectopic Artificial Livers. <i>Scientific Reports</i> , <b>2017</b> , 7, 45424	4.9	17
31	A sporozoite-based vaccination platform against human malaria. <i>Npj Vaccines</i> , <b>2018</b> , 3, 33	9.5	16
30	Machine learning guided association of adverse drug reactions with in vitro target-based pharmacology. <i>EBioMedicine</i> , <b>2020</b> , 57, 102837	8.8	15
29	Activity-Based Diagnostics: An Emerging Paradigm for Disease Detection and Monitoring. <i>Trends in Molecular Medicine</i> , <b>2020</b> , 26, 450-468	11.5	15
28	Targeting liver stage malaria with metformin. <i>JCI Insight</i> , <b>2019</b> , 4,	9.9	15
27	Viral genome imaging of hepatitis C virus to probe heterogeneous viral infection and responses to antiviral therapies. <i>Virology</i> , <b>2016</b> , 494, 236-47	3.6	14
26	Infection of laboratory colonies of Anopheles mosquitoes with Plasmodium vivax from cryopreserved clinical isolates. <i>International Journal for Parasitology</i> , <b>2016</b> , 46, 679-83	4.3	13
25	Two chemoattenuated PfSPZ malaria vaccines induce sterile hepatic immunity. <i>Nature</i> , <b>2021</b> , 595, 289-294	30.4	12
24	Evidential Deep Learning for Guided Molecular Property Prediction and Discovery. <i>ACS Central Science</i> , <b>2021</b> , 7, 1356-1367	16.8	12
23	Tumor penetrating nanomedicine targeting both an oncomiR and an oncogene in pancreatic cancer. <i>Oncotarget</i> , <b>2019</b> , 10, 5349-5358	3.3	11
22	Protease activity sensors noninvasively classify bacterial infections and antibiotic responses. <i>EBioMedicine</i> , <b>2018</b> , 38, 248-256	8.8	11
21	Disruption of cell-cell contact-mediated notch signaling via hydrogel encapsulation reduces mesenchymal stem cell chondrogenic potential: winner of the Society for Biomaterials Student Award in the Undergraduate Category, Charlotte, NC, April 15 to 18, 2015. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 1291-302	5.4	10
20	In vitro alterations do not reflect a requirement for host cell cycle progression during Plasmodium liver stage infection. <i>Eukaryotic Cell</i> , <b>2015</b> , 14, 96-103		10
19	Synthetic biomarkers: a twenty-first century path to early cancer detection. <i>Nature Reviews Cancer</i> , <b>2021</b> , 21, 655-668	31.3	8
18	Improving Drug Discovery by Nucleic Acid Delivery in Engineered Human Microlivers. <i>Cell Metabolism</i> , <b>2019</b> , 29, 727-735.e3	24.6	7

17	High-Throughput Platform for Identifying Molecular Factors Involved in Phenotypic Stabilization of Primary Human Hepatocytes In Vitro. <i>Journal of Biomolecular Screening</i> , <b>2016</b> , 21, 897-911		7
16	Controlled Apoptosis of Stromal Cells to Engineer Human Microlivers. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910442	15.6	4
15	Theranostic Layer-by-Layer Nanoparticles for Simultaneous Tumor Detection and Gene Silencing. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 2798-2805	3.6	3
14	A Macro-to-Micro Interface for the Control of Cellular Organization. <i>Journal of Microelectromechanical Systems</i> , <b>2014</b> , 23, 391-397	2.5	2
13	Silicon microchips for manipulating cell-cell interaction. <i>Journal of Visualized Experiments</i> , <b>2007</b> , 268	1.6	2
12	Directing Cholangiocyte Morphogenesis in Natural Biomaterial Scaffolds. <i>Advanced Science</i> , <b>2021</b> , e2102698	2.9	2
11	Peptide Spiders: Peptide-Polymer Conjugates to Traffic Nucleic Acids. <i>Molecular Pharmaceutics</i> , <b>2020</b> , 17, 3633-3642	5.6	2
10	Ionic Liquid-Mediated Transdermal Delivery of Thrombosis-Detecting Nanosensors.. <i>Advanced Healthcare Materials</i> , <b>2022</b> , e2102685	10.1	2
9	R&Ktitelbild: Theranostic Layer-by-Layer Nanoparticles for Simultaneous Tumor Detection and Gene Silencing (Angew. Chem. 7/2020). <i>Angewandte Chemie</i> , <b>2020</b> , 132, 2936-2936	3.6	1
8	Silicon Nanoparticles: Porous Silicon Nanoparticle Delivery of Tandem Peptide Anti-Infectives for the Treatment of Pseudomonas aeruginosa Lung Infections (Adv. Mater. 35/2017). <i>Advanced Materials</i> , <b>2017</b> , 29,	24	1
7	Tissue Engineering of the Liver <b>2006</b> , 417-471		1
6	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts <b>1997</b> , 34, 189		1
5	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts <b>1997</b> , 34, 189		1
4	A single-cell liver atlas of Plasmodium vivax infection.. <i>Cell Host and Microbe</i> , <b>2022</b> ,	23.4	1
3	Hepatic tissue engineering <b>2020</b> , 737-753		0
2	Integrated Technologies for Liver Tissue Engineering <b>2020</b> , 1028-1035		
1	Tissue Engineering of the Liver <b>2006</b> , 417-471		