Miles A Miller

List of Publications by Year
in descending order

67 papers	3,932 citations	147801 31 h-index	128289 60 g-index
69 all docs	69 docs citations	69 times ranked	7075 citing authors

#	Article	IF	Citations
1	In vivo imaging reveals a tumor-associated macrophageâ€"mediated resistance pathway in antiâ€"PD-1 therapy. Science Translational Medicine, 2017, 9, .	12.4	466
2	Tumour-associated macrophages act as a slow-release reservoir of nano-therapeutic Pt(IV) pro-drug. Nature Communications, 2015, 6, 8692.	12.8	353
3	Predicting therapeutic nanomedicine efficacy using a companion magnetic resonance imaging nanoparticle. Science Translational Medicine, 2015, 7, 314ra183.	12.4	273
4	The Receptor AXL Diversifies EGFR Signaling and Limits the Response to EGFR-Targeted Inhibitors in Triple-Negative Breast Cancer Cells. Science Signaling, 2013, 6, ra66.	3.6	236
5	Nano-palladium is a cellular catalyst for in vivo chemistry. Nature Communications, 2017, 8, 15906.	12.8	210
6	Radiation therapy primes tumors for nanotherapeutic delivery via macrophage-mediated vascular bursts. Science Translational Medicine, 2017, 9, .	12.4	178
7	Heterogeneity of macrophage infiltration and therapeutic response in lung carcinoma revealed by 3D organ imaging. Nature Communications, 2017, 8, 14293.	12.8	155
8	Reduced Proteolytic Shedding of Receptor Tyrosine Kinases Is a Post-Translational Mechanism of Kinase Inhibitor Resistance. Cancer Discovery, 2016, 6, 382-399.	9.4	139
9	Quantitative Imaging of Tumor-Associated Macrophages and Their Response to Therapy Using ⁶⁴Cu-Labeled Macrin. ACS Nano, 2018, 12, 12015-12029.	14.6	117
10	Molecular Pathways: Receptor Ectodomain Shedding in Treatment, Resistance, and Monitoring of Cancer. Clinical Cancer Research, 2017, 23, 623-629.	7.0	87
11	ADAM8 as a drug target in pancreatic cancer. Nature Communications, 2015, 6, 6175.	12.8	85
12	ADAM-10 and -17 regulate endometriotic cell migration via concerted ligand and receptor shedding feedback on kinase signaling. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2074-83.	7.1	80
13	Imaging of anticancer drug action in single cells. Nature Reviews Cancer, 2017, 17, 399-414.	28.4	80
14	Proteolytic Activity Matrix Analysis (PrAMA) for simultaneous determination of multiple protease activities. Integrative Biology (United Kingdom), 2011, 3, 422-438.	1.3	77
15	Enhancing Protease Activity Assay in Droplet-Based Microfluidics Using a Biomolecule Concentrator. Journal of the American Chemical Society, 2011, 133, 10368-10371.	13.7	77
16	Multiplexed Protease Activity Assay for Low-Volume Clinical Samples Using Droplet-Based Microfluidics and Its Application to Endometriosis. Journal of the American Chemical Society, 2013, 135, 1645-1648.	13.7	76
17	Regulated ADAM17-dependent EGF family ligand release by substrate-selecting signaling pathways. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9776-9781.	7.1	74
18	Modular Nanoparticulate Prodrug Design Enables Efficient Treatment of Solid Tumors Using Bioorthogonal Activation. ACS Nano, 2018, 12, 12814-12826.	14.6	72

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19	Single-cell pharmacokinetic imaging reveals a therapeutic strategy to overcome drug resistance to the microtubule inhibitor eribulin. Science Translational Medicine, 2014, 6, 261ra152.	12.4	71
20	Receptor-Driven ERK Pulses Reconfigure MAPK Signaling and Enable Persistence of Drug-Adapted BRAF-Mutant Melanoma Cells. Cell Systems, 2020, 11, 478-494.e9.	6.2	71
21	Single cell multiplexed assay for proteolytic activity using droplet microfluidics. Biosensors and Bioelectronics, 2016, 81, 408-414.	10.1	66
22	Prediction of Anti-cancer Nanotherapy Efficacy by Imaging. Nanotheranostics, 2017, 1, 296-312.	5.2	64
23	Imaging the pharmacology of nanomaterials by intravital microscopy: Toward understanding their biological behavior. Advanced Drug Delivery Reviews, 2017, 113, 61-86.	13.7	60
24	Therapeutically reprogrammed nutrient signalling enhances nanoparticulate albumin bound drug uptake and efficacy in KRAS-mutant cancer. Nature Nanotechnology, 2021, 16, 830-839.	31.5	55
25	ADAM9 Inhibition Increases Membrane Activity of ADAM10 and Controls Î±-Secretase Processing of Amyloid Precursor Protein. Journal of Biological Chemistry, 2011, 286, 40443-40451.	3.4	54
26	Cell shape, and not 2D migration, predicts extracellular matrix-driven 3D cell invasion in breast cancer. APL Bioengineering, 2020, 4, 026105.	6.2	50
27	Platinum Compounds for Highâ€Resolution In Vivo Cancer Imaging. ChemMedChem, 2014, 9, 1131-1135.	3.2	49
28	Advances in measuring single-cell pharmacology in vivo. Drug Discovery Today, 2015, 20, 1087-1092.	6.4	41
29	Improving nanotherapy delivery and action through image-guided systems pharmacology. Theranostics, 2020, 10, 968-997.	10.0	41
30	Single cell imaging of Bruton's Tyrosine Kinase using an irreversible inhibitor. Scientific Reports, 2014, 4, 4782.	3.3	37
31	Low-volume multiplexed proteolytic activity assay and inhibitor analysis through a pico-injector array. Lab on A Chip, 2015, 15, 1153-1159.	6.0	34
32	p53 dynamics vary between tissues and are linked with radiation sensitivity. Nature Communications, 2021, 12, 898.	12.8	32
33	MENA Confers Resistance to Paclitaxel in Triple-Negative Breast Cancer. Molecular Cancer Therapeutics, 2017, 16, 143-155.	4.1	31
34	ADAM10 Sheddase Activity is a Potential Lung-Cancer Biomarker. Journal of Cancer, 2018, 9, 2559-2570.	2.5	30
35	Targeting autocrine HB-EGF signaling with specific ADAM12 inhibition using recombinant ADAM12 prodomain. Scientific Reports, 2015, 5, 15150.	3.3	24
36	Site occupancy calibration of taxane pharmacology in live cells and tissues. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11406-E11414.	7.1	22

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37	Efficient blockade of locally reciprocated tumor-macrophage signaling using a TAM-avid nanotherapy. Science Advances, 2020, 6, eaaz8521.	10.3	22
38	Near infrared imaging of Mer tyrosine kinase (MERTK) using MERi-SiR reveals tumor associated macrophage uptake in metastatic disease. Chemical Communications, 2018, 54, 42-45.	4.1	21
39	Detecting Immune Response to Therapies Targeting PDL1 and BRAF by Using Ferumoxytol MRI and Macrin in Anaplastic Thyroid Cancer. Radiology, 2021, 298, 123-132.	7.3	19
40	Vasculopathy and Increased Vascular Congestion in Fatal COVID-19 and Acute Respiratory Distress Syndrome. American Journal of Respiratory and Critical Care Medicine, 2022, 206, 857-873.	5.6	19
41	Ultrafast Single-Cell Level Enzymatic Tumor Profiling. Analytical Chemistry, 2019, 91, 1277-1285.	6.5	18
42	In vivo microscopy reveals macrophage polarization locally promotes coherent microtubule dynamics in migrating cancer cells. Nature Communications, 2020, 11, 3521.	12.8	17
43	Singleâ€Cell Intravital Microscopy of Trastuzumab Quantifies Heterogeneous in vivo Kinetics. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 528-539.	1.5	16
44	New and Emerging Research on Solute Carrier and ATP Binding Cassette Transporters in Drug Discovery and Development: Outlook From the International Transporter Consortium. Clinical Pharmacology and Therapeutics, 2022, 112, 540-561.	4.7	16
45	Identifying Biological Network Structure, Predicting Network Behavior, and Classifying Network State With High Dimensional Model Representation (HDMR). PLoS ONE, 2012, 7, e37664.	2.5	13
46	Mena^{INV} mediates synergistic cross-talk between signaling pathways driving chemotaxis and haptotaxis. Molecular Biology of the Cell, 2016, 27, 3085-3094.	2.1	12
47	Profiling of metalloprotease activities in cerebrospinal fluids of patients with neoplastic meningitis. Fluids and Barriers of the CNS, 2017, 14, 22.	5.0	12
48	ADAM8-Dependent Extracellular Signaling in the Tumor Microenvironment Involves Regulated Release of Lipocalin 2 and MMP-9. International Journal of Molecular Sciences, 2022, 23, 1976.	4.1	10
49	Probing immune infiltration dynamics in cancer by inÂvivo imaging. Current Opinion in Chemical Biology, 2022, 67, 102117.	6.1	8
50	Simultaneous Detection of Metalloprotease Activities in Complex Biological Samples Using the PrAMA (Proteolytic Activity Matrix Assay) Method. Methods in Molecular Biology, 2017, 1574, 243-253.	0.9	7
51	Development and Application of the Metalloprotease Activity Multiplexed Bead-Based Immunoassay (MAMBI). Biochemistry, 2019, 58, 3938-3942.	2.5	7
52	Development of flow cytometry assays for measuring cell-membrane enzyme activity on individual cells. Journal of Cancer, 2020, 11, 702-715.	2.5	7
53	Radiation Cleaved Drug-Conjugate Linkers Enable Local Payload Release. Bioconjugate Chemistry, 2022, 33, 1474-1484.	3.6	7
54	Fluorescent substrates for ADAM15 useful for assaying and high throughput screening. Analytical Biochemistry, 2016, 514, 42-47.	2.4	6

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55	Overcoming differential tumor penetration of BRAF inhibitors using computationally guided combination therapy. Science Advances, 2022, 8, eabl6339.	10.3	6
56	Understanding the In Vivo Fate of Advanced Materials by Imaging. Advanced Functional Materials, 2020, 30, 1910369.	14.9	5
57	Macrophage imaging and subset analysis using single-cell RNA sequencing. Nanotheranostics, 2021, 5, 36-56.	5.2	5
58	Modification of proteolytic activity matrix analysis (PrAMA) to measure ADAM10 and ADAM17 sheddase activities in cell and tissue lysates. Journal of Cancer, 2017, 8, 3916-3932.	2.5	3
59	Nanoparticles improve economic mileage for CARs. Science Translational Medicine, 2017, 9, .	12.4	3
60	Cellâ€"cell communication networks in tissue: Toward quantitatively linking structure with function. Current Opinion in Systems Biology, 2021, 27, 100341.	2.6	2
61	Abstract B133: In vivo imaging of innate immune cells to measure drug response. , 2016, , .		1
62	Confocal Imaging of Single-Cell Signaling in Orthotopic Models of Ovarian Cancer. Methods in Molecular Biology, 2022, 2424, 295-315.	0.9	1
63	High-throughput screening for directed chemotaxis of retinal progenitor cells in 3D hydrogels. , 2014, , .		0
64	Subcellular Drug Depots as Reservoirs for Small-Molecule Drugs. Methods in Pharmacology and Toxicology, 2021, , 397-434.	0.2	0
65	Image-guided cancer immunotherapy. , 2022, , 427-467.		0
66	Richer data with personalized GEMs. Science Translational Medicine, 2017, 9, .	12.4	0
67	Less is more for anticancer therapy combinations. Science Translational Medicine, 2017, 9, .	12.4	0