Stefanie S Jeffrey

List of Publications by Citations

93 papers	22,407 citations	43 h-index	104 g-index
104 ext. papers	25,042 ext. citations	9.2 avg, IF	6.27 L-index

#	Paper	IF	Citations
93	Molecular portraits of human breast tumours. *Nature*, **2000**, 406, 747-52	50.4	11221
92	Systematic variation in gene expression patterns in human cancer cell lines. *Nature Genetics*, **2000**, 24, 227-35	36.3	1739
91	Lysyl oxidase is essential for hypoxia-induced metastasis. *Nature*, **2006**, 440, 1222-6	50.4	1127
90	Microarray analysis reveals a major direct role of DNA copy number alteration in the transcriptional program of human breast tumors. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 12963-8	11.5	980
89	Genome-wide analysis of DNA copy-number changes using cDNA microarrays. *Nature Genetics*, **1999**, 23, 41-6	36.3	712
88	Different gene expression patterns in invasive lobular and ductal carcinomas of the breast. *Molecular Biology of the Cell*, **2004**, 15, 2523-36	3.5	488
87	Single cell profiling of circulating tumor cells: transcriptional heterogeneity and diversity from breast cancer cell lines. *PLoS ONE*, **2012**, 7, e33788	3.7	415
86	Isolating highly enriched populations of circulating epithelial cells and other rare cells from blood using a magnetic sweeper device. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 3970-5	11.5	385
85	The importance of the lumpectomy surgical margin status in long-term results of breast conservation. *Cancer*, **1995**, 76, 259-67	6.4	348
84	Circulating tumor cell technologies. *Molecular Oncology*, **2016**, 10, 374-94	7.9	315
83	Circulating Tumor Cells and Circulating Tumor DNA: Challenges and Opportunities on the Path to Clinical Utility. *Clinical Cancer Research*, **2015**, 21, 4786-800	12.9	247
82	A streamlined platform for high-content functional proteomics of primary human specimens. *Nature Methods*, **2005**, 2, 691-7	21.6	212
81	TP53 mutation status and gene expression profiles are powerful prognostic markers of breast cancer. *Breast Cancer Research*, **2007**, 9, R30	8.3	208
80	Rapid identification of pathogenic bacteria using Raman spectroscopy and deep learning. *Nature Communications*, **2019**, 10, 4927	17.4	194
79	New models and online calculator for predicting non-sentinel lymph node status in sentinel lymph node positive breast cancer patients. *BMC Cancer*, **2008**, 8, 66	4.8	177
78	Liquid biopsy enters the clinic - implementation issues and future challenges. *Nature Reviews Clinical Oncology*, **2021**, 18, 297-312	19.4	158
77	Profiling protein expression in circulating tumour cells using microfluidic western blotting. *Nature Communications*, **2017**, 8, 14622	17.4	151

76	Isolation and mutational analysis of circulating tumor cells from lung cancer patients with magnetic sifters and biochips. *Lab on A Chip*, **2014**, 14, 78-88	7.2	127
75	5-Hydroxymethylcytosine signatures in cell-free DNA provide information about tumor types and stages. *Cell Research*, **2017**, 27, 1231-1242	24.7	119
74	Classification of large circulating tumor cells isolated with ultra-high throughput microfluidic Vortex technology. *Oncotarget*, **2016**, 7, 12748-60	3.3	117
73	Estrogen receptor-negative invasive breast cancer: imaging features of tumors with and without human epidermal growth factor receptor type 2 overexpression. *Radiology*, **2008**, 246, 367-75	20.5	111
72	Management of breast cancer after Hodgkin's disease. *Journal of Clinical Oncology*, **2000**, 18, 765-72	2.2	109
71	Optimization and evaluation of T7 based RNA linear amplification protocols for cDNA microarray analysis. *BMC Genomics*, **2002**, 3, 31	4.5	105
70	RNA extraction from ten year old formalin-fixed paraffin-embedded breast cancer samples: a comparison of column purification and magnetic bead-based technologies. *BMC Molecular Biology*, **2007**, 8, 118	4.5	102
69	Discovery and validation of breast cancer subtypes. *BMC Genomics*, **2006**, 7, 231	4.5	87
68	Single cell mutational analysis of PIK3CA in circulating tumor cells and metastases in breast cancer reveals heterogeneity, discordance, and mutation persistence in cultured disseminated tumor cells from bone marrow. *BMC Cancer*, **2014**, 14, 456	4.8	81
67	DNA copy number alterations and expression of relevant genes in triple-negative breast cancer. *Genes Chromosomes and Cancer*, **2008**, 47, 490-9	5	79
66	MR imaging features of infiltrating lobular carcinoma of the breast: histopathologic correlation. *American Journal of Roentgenology*, **2002**, 178, 1227-32	5.4	77
65	Mutation profiling of tumor DNA from plasma and tumor tissue of colorectal cancer patients with a novel, high-sensitivity multiplexed mutation detection platform. *Oncotarget*, **2015**, 6, 2549-61	3.3	75
64	Circulating tumor cells versus tumor-derived cell-free DNA: rivals or partners in cancer care in the era of single-cell analysis?. *Genome Medicine*, **2013**, 5, 70	14.4	70
63	Enumeration and targeted analysis of KRAS, BRAF and PIK3CA mutations in CTCs captured by a label-free platform: Comparison to ctDNA and tissue in metastatic colorectal cancer. *Oncotarget*, **2016**, 7, 85349-85364	3.3	63
62	Breast cancer: variables affecting sentinel lymph node visualization at preoperative lymphoscintigraphy. *Radiology*, **2001**, 220, 47-53	20.5	62
61	Anti-HER2 scFv-Directed Extracellular Vesicle-Mediated mRNA-Based Gene Delivery Inhibits Growth of HER2-Positive Human Breast Tumor Xenografts by Prodrug Activation. *Molecular Cancer Therapeutics*, **2018**, 17, 1133-1142	6.1	61
60	Patient-derived xenografts of triple-negative breast cancer reproduce molecular features of patient tumors and respond to mTOR inhibition. *Breast Cancer Research*, **2014**, 16, R36	8.3	55
59	Label-free isolation of prostate circulating tumor cells using Vortex microfluidic technology. *Npj Precision Oncology*, **2017**, 1, 15	9.8	53

58	HIGD1A Regulates Oxygen Consumption, ROS Production, and AMPK Activity during Glucose Deprivation to Modulate Cell Survival and Tumor Growth. *Cell Reports*, **2015**, 10, 891-899	10.6	51
57	Genomics-based prognosis and therapeutic prediction in breast cancer. *Journal of the National Comprehensive Cancer Network: JNCCN*, **2005**, 3, 291-300	7.3	47
56	Characterization of breast lesion morphology with delayed 3DSSMT: an adjunct to dynamic breast MRI. *Journal of Magnetic Resonance Imaging*, **2000**, 11, 87-96	5.6	47
55	Colorectal cancer diagnostics: biomarkers, cell-free DNA, circulating tumor cells and defining heterogeneous populations by single-cell analysis. *Expert Review of Molecular Diagnostics*, **2013**, 13, 581-99	3.8	46
54	High efficiency vortex trapping of circulating tumor cells. *Biomicrofluidics*, **2015**, 9, 064116	3.2	45
53	CAMK1D amplification implicated in epithelial-mesenchymal transition in basal-like breast cancer. *Molecular Oncology*, **2008**, 2, 327-39	7.9	45
52	A molecular signatureTof primary breast cancer cultures; patterns resembling tumor tissue. *BMC Genomics*, **2004**, 5, 47	4.5	43
51	Liquid biopsy in pancreatic ductal adenocarcinoma: current status of circulating tumor cells and circulating tumor DNA. *Molecular Oncology*, **2019**, 13, 1623-1650	7.9	42
50	Disease-specific genomic analysis: identifying the signature of pathologic biology. *Bioinformatics*, **2007**, 23, 957-65	7.2	42
49	Freehand iMRI-guided large-gauge core needle biopsy: a new minimally invasive technique for diagnosis of enhancing breast lesions. *Journal of Magnetic Resonance Imaging*, **2001**, 13, 896-902	5.6	42
48	T cell receptor sequencing of early-stage breast cancer tumors identifies altered clonal structure of the T cell repertoire. *Proceedings of the National Academy of Sciences of the United States of America* , **2017**, 114, E10409-E10417	11.5	40
47	Rates of reexcision for breast cancer after magnetic resonance imaging-guided bracket wire localization. *Journal of the American College of Surgeons*, **2005**, 200, 527-37	4.4	40
46	A pharmacogenomic method for individualized prediction of drug sensitivity. *Molecular Systems Biology*, **2011**, 7, 513	12.2	38
45	Adipose levels of polybrominated diphenyl ethers and risk of breast cancer. *Breast Cancer Research and Treatment*, **2011**, 129, 505-11	4.4	36
44	Label-free enumeration, collection and downstream cytological and cytogenetic analysis of circulating tumor cells. *Scientific Reports*, **2016**, 6, 35474	4.9	34
43	Fast and Label-Free Isolation of Circulating Tumor Cells from Blood: From a Research Microfluidic Platform to an Automated Fluidic Instrument, VTX-1 Liquid Biopsy System. *SLAS Technology*, **2018**, 23, 16-29	3	31
42	Workflow optimization of whole genome amplification and targeted panel sequencing for CTC mutation detection. *Npj Genomic Medicine*, **2017**, 2, 34	6.2	28
41	Future of Liquid Biopsies With Growing Technological and Bioinformatics Studies: Opportunities and Challenges in Discovering Tumor Heterogeneity With Single-Cell Level Analysis. *Cancer Journal (Sudbury, Mass)*, **2018**, 24, 104-108	2.2	24

40	Plasmonic and Electrostatic Interactions Enable Uniformly Enhanced Liquid Bacterial Surface-Enhanced Raman Scattering (SERS). *Nano Letters*, **2020**, 20, 7655-7661	11.5	24
39	Toward rapid infectious disease diagnosis with advances in surface-enhanced Raman spectroscopy. *Journal of Chemical Physics*, **2020**, 152, 240902	3.9	23
38	Locally advanced breast cancer: is surgery necessary?. *Breast Journal*, **2001**, 7, 131-7	1.2	21
37	Expression array technology in the diagnosis and treatment of breast cancer. *Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics*, **2002**, 2, 101-9		21
36	Gold Nanobipyramids as Second Near Infrared Optical Coherence Tomography Contrast Agents for Multiplexing Studies. *Nano Letters*, **2020**, 20, 101-108	11.5	21
35	Investigating circulating tumor cells and distant metastases in patient-derived orthotopic xenograft models of triple-negative breast cancer. *Breast Cancer Research*, **2019**, 21, 98	8.3	20
34	Extracellular Vesicle-Mediated Transcribed mRNA Delivery for Treatment of HER2 Breast Cancer Xenografts in Mice by Prodrug CB1954 without General Toxicity. *Molecular Cancer Therapeutics*, **2020**, 19, 858-867	6.1	20
33	Nuclear localization of the mitochondrial factor HIGD1A during metabolic stress. *PLoS ONE*, **2013**, 8, e62758	3.7	20
32	Radiation-induced effects on gene expression: an in vivo study on breast cancer. *Radiotherapy and Oncology*, **2006**, 80, 230-5	5.3	20
31	High-throughput time-resolved FRET reveals Akt/PKB activation as a poor prognostic marker in breast cancer. *Cancer Research*, **2014**, 74, 4983-95	10.1	19
30	The diagnosis and management of pre-invasive breast disease: promise of new technologies in understanding pre-invasive breast lesions. *Breast Cancer Research*, **2003**, 5, 320-8	8.3	18
29	Distribution of persistent, lipid-soluble chemicals in breast and abdominal adipose tissues: lessons learned from a breast cancer study. *Cancer Epidemiology Biomarkers and Prevention*, **2004**, 13, 416-24	4	18
28	MRI features of mucosa-associated lymphoid tissue lymphoma in the breast. *American Journal of Roentgenology*, **2005**, 185, 199-202	5.4	17
27	Detection of EGFR Mutations in cfDNA and CTCs, and Comparison to Tumor Tissue in Non-Small-Cell-Lung-Cancer (NSCLC) Patients. *Frontiers in Oncology*, **2020**, 10, 572895	5.3	16
26	Adipose levels of dioxins and risk of breast cancer. *Cancer Causes and Control*, **2005**, 16, 525-35	2.8	15
25	Controversies in sentinel lymph node biopsy for breast cancer. *Cancer Biotherapy and Radiopharmaceuticals*, **2000**, 15, 223-33	3.9	14
24	Deciphering cancer clues from blood. *Science*, **2020**, 367, 1424-1425	33.3	13
23	Real-Time Detection of Circulating Tumor Cells in Living Animals Using Functionalized Large Gold Nanorods. *Nano Letters*, **2019**, 19, 2334-2342	11.5	12

22	The evolution of accelerated, partial breast irradiation as a potential treatment option for women with newly diagnosed breast cancer considering breast conservation. *Cancer Biotherapy and Radiopharmaceuticals*, **2004**, 19, 673-705	3.9	11
21	Electropermanent magnet actuation for droplet ferromicrofluidics. *Technology*, **2016**, 4, 110-119	3	11
20	Magnetic resonance imaging of suspicious breast masses seen on one mammographic view. *Breast Journal*, **2004**, 10, 416-22	1.2	10
19	Distinctive responsiveness to stromal signaling accompanies histologic grade programming of cancer cells. *PLoS ONE*, **2011**, 6, e20016	3.7	9
18	Transcriptomic signatures in breast cancer. *Molecular BioSystems*, **2007**, 3, 466-72		9
17	Impact of navigation on knowledge and attitudes about clinical trials among Chinese patients undergoing treatment for breast and gynecologic cancers. *Journal of Immigrant and Minority Health* , **2015**, 17, 976-9	2.2	8
16	Targeting the tetraspanin CD81 reduces cancer invasion and metastasis. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	8
15	Tumor shedding and metastatic progression after tumor excision in patient-derived orthotopic xenograft models of triple-negative breast cancer. *Clinical and Experimental Metastasis*, **2020**, 37, 413-424	4.7	7
14	Regression of experimental NIS-expressing breast cancer brain metastases in response to radioiodide/gemcitabine dual therapy. *Oncotarget*, **2016**, 7, 54811-54824	3.3	7
13	Guided-Mode-Resonant Dielectric Metasurfaces for Colorimetric Imaging of Material Anisotropy in Fibrous Biological Tissue. *ACS Photonics*, **2020**, 7, 3216-3227	6.3	5
12	Anomalous hysteresis and current fluctuations in cyclic voltammograms at microelectrodes due to Ag leaching from Ag/AgCl reference electrodes. *Electrochemistry Communications*, **2019**, 105, 106499	5.1	4
11	Cell trapping in activated micropores for functional analysis. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2006**, 2006, 1838-41		4
10	Retraction Note: Lysyl oxidase is essential for hypoxia-induced metastasis. *Nature*, **2020**, 579, 456	50.4	3
9	Advances in the Characterization of Circulating Tumor Cells in Metastatic Breast Cancer: Single Cell Analyses and Interactions, and Patient-Derived Models for Drug Testing. *Advances in Experimental Medicine and Biology*, **2020**, 1220, 61-80	3.6	3
8	Scalable methods for ultra-smooth platinum in nanoscale devices. *Micro and Nano Engineering*, **2019**, 3, 50-58	3.4	2
7	ALD HfO Films for Defining Microelectrodes for Electrochemical Sensing and Other Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 26082-26092	9.5	2
6	Electropermanent magnet-driven droplet size modulation for two-phase ferromicrofluidics. *Microfluidics and Nanofluidics*, **2020**, 24, 1	2.8	2
5	Interpretable Classification of Bacterial Raman Spectra with Knockoff Wavelets. *IEEE Journal of Biomedical and Health Informatics*, **2021**, PP,	7.2	2

4	Cell-free circulating tumor DNA profiling in cancer management. *Trends in Molecular Medicine*, **2021**, 27, 1014-1015	11.5	2
3	Neural network-based model of photoresist reflow. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2019**, 37, 061604	1.3	0
2	Characterization of molecular subtypes of Korean breast cancer: an ethnically and clinically distinct population. *International Journal of Oncology*, **2010**, 37, 51-9	4.4	
1	Tumor Heterogeneity and Single-cell Analysis of CTCs **2016**, 313-328		