

Sunitha Nagrath

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

11,264
citations

101543

36
h-index

123424

61
g-index

66
all docs

66
docs citations

66
times ranked

12316
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation of rare circulating tumour cells in cancer patients by microchip technology. <i>Nature</i> , 2007, 450, 1235-1239.	27.8	3,272
2	Detection of Mutations in <i>EGFR</i> in Circulating Lung-Cancer Cells. <i>New England Journal of Medicine</i> , 2008, 359, 366-377.	27.0	1,602
3	Isolation of circulating tumor cells using a microvortex-generating herringbone-chip. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18392-18397.	7.1	1,454
4	Microfluidic device (ExoChip) for on-chip isolation, quantification and characterization of circulating exosomes. <i>Lab on A Chip</i> , 2014, 14, 1891-1900.	6.0	522
5	Sensitive capture of circulating tumour cells by functionalized graphene oxide nanosheets. <i>Nature Nanotechnology</i> , 2013, 8, 735-741.	31.5	487
6	Isolation and Characterization of Circulating Tumor Cells from Patients with Localized and Metastatic Prostate Cancer. <i>Science Translational Medicine</i> , 2010, 2, 25ra23.	12.4	474
7	Emerging Role of Nanomaterials in Circulating Tumor Cell Isolation and Analysis. <i>ACS Nano</i> , 2014, 8, 1995-2017.	14.6	225
8	The CTC-Chip: An Exciting New Tool to Detect Circulating Tumor Cells in Lung Cancer Patients. <i>Journal of Thoracic Oncology</i> , 2009, 4, 281-283.	1.1	192
9	Expansion of CTCs from early stage lung cancer patients using a microfluidic co-culture model. <i>Oncotarget</i> , 2014, 5, 12383-12397.	1.8	175
10	Hydro-Seq enables contamination-free high-throughput single-cell RNA-sequencing for circulating tumor cells. <i>Nature Communications</i> , 2019, 10, 2163.	12.8	172
11	GM-CSF Mediates Mesenchymal-Epithelial Cross-talk in Pancreatic Cancer. <i>Cancer Discovery</i> , 2016, 6, 886-899.	9.4	156
12	Poor Prognosis Indicated by Venous Circulating Tumor Cell Clusters in Early-Stage Lung Cancers. <i>Cancer Research</i> , 2017, 77, 5194-5206.	0.9	139
13	HER2 and EGFR Overexpression Support Metastatic Progression of Prostate Cancer to Bone. <i>Cancer Research</i> , 2017, 77, 74-85.	0.9	137
14	Tunable Thermal-Sensitive Polymer-Graphene Oxide Composite for Efficient Capture and Release of Viable Circulating Tumor Cells. <i>Advanced Materials</i> , 2016, 28, 4891-4897.	21.0	130
15	A Radial Flow Microfluidic Device for Ultra-High-Throughput Affinity-Based Isolation of Circulating Tumor Cells. <i>Small</i> , 2014, 10, 4895-4904.	10.0	115
16	Tumour-reprogrammed stromal BCAT1 fuels branched-chain ketoacid dependency in stromal-rich PDAC tumours. <i>Nature Metabolism</i> , 2020, 2, 775-792.	11.9	110
17	Circulating tumor cell-derived organoids: Current challenges and promises in medical research and precision medicine. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2018, 1869, 117-127.	7.4	106
18	Isolation and Profiling of Circulating Tumor-Associated Exosomes Using Extracellular Vesicular Lipid-Protein Binding Affinity Based Microfluidic Device. <i>Small</i> , 2019, 15, e1903600.	10.0	106

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19	Microfluidics and cancer: are we there yet?. <i>Biomedical Microdevices</i> , 2013, 15, 595-609.	2.8	95
20	Affinity Versus Label-Free Isolation of Circulating Tumor Cells: Who Wins?. <i>Small</i> , 2016, 12, 4450-4463.	10.0	90
21	PD-L1 Expression in Circulating Tumor Cells Increases during Radio(chemo)therapy and Indicates Poor Prognosis in Non-small Cell Lung Cancer. <i>Scientific Reports</i> , 2019, 9, 566.	3.3	90
22	High-Throughput Microfluidic Labyrinth for the Label-free Isolation of Circulating Tumor Cells. <i>Cell Systems</i> , 2017, 5, 295-304.e4.	6.2	88
23	Image-Guided Biopsy in the Era of Personalized Cancer Care: Proceedings from the Society of Interventional Radiology Research Consensus Panel. <i>Journal of Vascular and Interventional Radiology</i> , 2016, 27, 8-19.	0.5	87
24	Breast Cancer Stem Cells: Current Advances and Clinical Implications. <i>Methods in Molecular Biology</i> , 2015, 1293, 1-49.	0.9	85
25	A temporary indwelling intravascular aphaeretic system for in vivo enrichment of circulating tumor cells. <i>Nature Communications</i> , 2019, 10, 1478.	12.8	80
26	Circulating Tumor Cells: Diagnostic and Therapeutic Applications. <i>Annual Review of Biomedical Engineering</i> , 2018, 20, 329-352.	12.3	79
27	Cascaded spiral microfluidic device for deterministic and high purity continuous separation of circulating tumor cells. <i>Biomicrofluidics</i> , 2014, 8, 064117.	2.4	75
28	Opportunities and Challenges for Pancreatic Circulating Tumor Cells. <i>Gastroenterology</i> , 2016, 151, 412-426.	1.3	60
29	High-Throughput Label-Free Isolation of Heterogeneous Circulating Tumor Cells and CTC Clusters from Non-Small-Cell Lung Cancer Patients. <i>Cancers</i> , 2020, 12, 127.	3.7	60
30	Microfluidic device for high-throughput affinity-based isolation of extracellular vesicles. <i>Lab on A Chip</i> , 2020, 20, 1762-1770.	6.0	57
31	The marrow niche controls the cancer stem cell phenotype of disseminated prostate cancer. <i>Oncotarget</i> , 0, 7, 41217-41232.	1.8	57
32	Pulmonary venous blood sampling significantly increases the yield of circulating tumor cells in early-stage lung cancer. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016, 151, 852-858.	0.8	53
33	Dual-Isolation and Profiling of Circulating Tumor Cells and Cancer Exosomes from Blood Samples with Melanoma Using Immunoaffinity-Based Microfluidic Interfaces. <i>Advanced Science</i> , 2020, 7, 2001581.	11.2	53
34	On-Chip Biogenesis of Circulating NK Cell-Derived Exosomes in Non-Small Cell Lung Cancer Exhibits Antitumoral Activity. <i>Advanced Science</i> , 2021, 8, 2003747.	11.2	50
35	Current Status of CTCs as Liquid Biopsy in Lung Cancer and Future Directions. <i>Frontiers in Oncology</i> , 2015, 5, 209.	2.8	48
36	Circulating tumor cells in precision medicine: challenges and opportunities. <i>Trends in Pharmacological Sciences</i> , 2022, 43, 378-391.	8.7	47

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37	New Labyrinth Microfluidic Device Detects Circulating Tumor Cells Expressing Cancer Stem Cell Marker and Circulating Tumor Microemboli in Hepatocellular Carcinoma. <i>Scientific Reports</i> , 2019, 9, 18575.	3.3	38
38	Expanded Circulating Tumor Cells from a Patient with ALK- Positive Lung Cancer Present with EML4-ALK Rearrangement Along with Resistance Mutation and Enable Drug Sensitivity Testing: A Case Study. <i>Journal of Thoracic Oncology</i> , 2017, 12, 397-402.	1.1	37
39	Extracellular vesicles on demand (EVOD) chip for screening and quantification of cancer-associated extracellular vesicles. <i>Biosensors and Bioelectronics</i> , 2020, 168, 112535.	10.1	32
40	Detection of CTC Clusters and a Dedifferentiated RNA Expression Survival Signature in Prostate Cancer. <i>Advanced Science</i> , 2019, 6, 1801254.	11.2	30
41	Expansion of Circulating Tumor Cells from Patients with Locally Advanced Pancreatic Cancer Enable Patient Derived Xenografts and Functional Studies for Personalized Medicine. <i>Cancers</i> , 2020, 12, 1011.	3.7	29
42	Ultra-Specific Isolation of Circulating Tumor Cells Enables Rare Cell RNA Profiling. <i>Advanced Science</i> , 2016, 3, 1600063.	11.2	27
43	Microfluidic continuum sorting of sub-populations of tumor cells via surface antibody expression levels. <i>Lab on A Chip</i> , 2017, 17, 1349-1358.	6.0	26
44	Inertial focusing of circulating tumor cells in whole blood at high flow rates using the microfluidic CTCKey device for CTC enrichment. <i>Lab on A Chip</i> , 2021, 21, 3559-3572.	6.0	25
45	Immunotherapy for ALK-Rearranged Non-Small Cell Lung Cancer: Challenges Inform Promising Approaches. <i>Cancers</i> , 2021, 13, 1476.	3.7	21
46	Characterizing Circulating Tumor Cells Isolated from Metastatic Breast Cancer Patients Using Graphene Oxide Based Microfluidic Assay. <i>Advanced Biology</i> , 2019, 3, e1800278.	3.0	19
47	Extracellular Vesicles in Serum and Central Nervous System Tissues Contain microRNA Signatures in Sporadic Amyotrophic Lateral Sclerosis. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 739016.	2.9	17
48	"Universal" vitrification of cells by ultra-fast cooling. <i>Technology</i> , 2015, 03, 64-71.	1.4	16
49	Label-Free, High-Throughput Purification of Satellite Cells Using Microfluidic Inertial Separation. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 32-41.	2.1	15
50	Multiplex isolation and profiling of extracellular vesicles using a microfluidic DICE device. <i>Analyst</i> , 2019, 144, 5785-5793.	3.5	15
51	Profiling Heterogeneous Circulating Tumor Cells (CTC) Populations in Pancreatic Cancer Using a Serial Microfluidic CTC Carpet Chip. <i>Advanced Biology</i> , 2018, 2, 1800228.	3.0	13
52	Optimizing the Detection of Circulating Markers to Aid in Early Lung Cancer Detection. <i>Cancers</i> , 2016, 8, 61.	3.7	12
53	The incorporation of microfluidics into circulating tumor cell isolation for clinical applications. <i>Current Opinion in Chemical Engineering</i> , 2016, 11, 59-66.	7.8	12
54	Simultaneous Single Cell Gene Expression and EGFR Mutation Analysis of Circulating Tumor Cells Reveals Distinct Phenotypes in NSCLC. <i>Advanced Biology</i> , 2020, 4, e2000110.	3.0	12

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55	Recent Advances in Device Engineering and Computational Analysis for Characterization of Cell-Released Cancer Biomarkers. <i>Cancers</i> , 2022, 14, 288.	3.7	11
56	Epidermal Growth Factor Receptor Mutations Carried in Extracellular Vesicle-Derived Cargo Mirror Disease Status in Metastatic Non-small Cell Lung Cancer. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 724389.	3.7	8
57	Quantification and immunoprofiling of bladder cancer cell-derived extracellular vesicles with microfluidic chemiluminescent ELISA. <i>Biosensors and Bioelectronics: X</i> , 2021, 8, 100066.	1.7	6
58	Isolation of Circulating Biomarkers for Liquid Biopsy using Immunoaffinity-Based Stimuli-Responsive Hybrid Hydrogel Beads. <i>Analysis & Sensing</i> , 2021, 1, 117-129.	2.0	3
59	Synergistic Analysis of Circulating Tumor Cells Reveals Prognostic Signatures in Pilot Study of Treatment-Naïve Metastatic Pancreatic Cancer Patients. <i>Biomedicines</i> , 2022, 10, 146.	3.2	3
60	Isolation of Circulating Tumor Cells to Diagnose Melanoma and Evaluate the Efficacy of Surgical Resection Using Melanoma-Specific Microsystem. <i>Advanced NanoBiomed Research</i> , 2022, 2, .	3.6	2
61	Molecular biomarkers and liquid biopsies in lung cancer. <i>Seminars in Oncology</i> , 2022, 49, 275-284.	2.2	2
62	Integrated Workflow for the Label-Free Isolation and Genomic Analysis of Single Circulating Tumor Cells in Pancreatic Cancer. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7852.	4.1	2
63	It's not 'just a tube of blood': principles of protocol development, sample collection, staffing and budget considerations for blood-based biomarkers in immunotherapy studies. , 2021, 9, .		1
64	Fast and Cost-Effective Isolation of Circulating Exosomes Using Porous PDMS-Based Microsystem(Porous Exochip). , 2022, , .		1
65	Cancer cells spread aggressively during sleep. <i>Nature</i> , 0, , .	27.8	1
66	Epidermal Growth Factor Receptor Mutations Carried in Extracellular Vesicle-Derived Cargo Mirror Disease Status in Metastatic Non-small Cell Lung Cancer. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 724389.	3.7	0