Sunitha Nagrath

List of Publications by Year
in descending order

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	Recent Advances in Device Engineering and Computational Analysis for Characterization of Cell-Released Cancer Biomarkers. Cancers, 2022, 14, 288.	3.7	11
2	Synergistic Analysis of Circulating Tumor Cells Reveals Prognostic Signatures in Pilot Study of Treatment-NaÃ¯ve Metastatic Pancreatic Cancer Patients. Biomedicines, 2022, 10, 146.	3.2	3
3	Fast and Cost-Effective Isolation of Circulating Exosomes Using Porous PDMS-Based Microsystem(Porous Exochip). , 2022, , .		1
4	Circulating tumor cells in precision medicine: challenges and opportunities. Trends in Pharmacological Sciences, 2022, 43, 378-391.	8.7	47
5	Isolation of Circulating Tumor Cells to Diagnose Melanoma and Evaluate the Efficacy of Surgical Resection Using Melanomaâ€Specific Microsystem. Advanced NanoBiomed Research, 2022, 2, .	3.6	2
6	Molecular biomarkers and liquid biopsies in lung cancer. Seminars in Oncology, 2022, 49, 275-284.	2.2	2
7	Integrated Workflow for the Label-Free Isolation and Genomic Analysis of Single Circulating Tumor Cells in Pancreatic Cancer. International Journal of Molecular Sciences, 2022, 23, 7852.	4.1	2
8	Onâ€Chip Biogenesis of Circulating NK Cellâ€Derived Exosomes in Nonâ€Small Cell Lung Cancer Exhibits Antitumoral Activity. Advanced Science, 2021, 8, 2003747.	11.2	50
9	Inertial focusing of circulating tumor cells in whole blood at high flow rates using the microfluidic CTCKeyâ„¢ device for CTC enrichment. Lab on A Chip, 2021, 21, 3559-3572.	6.0	25
10	Immunotherapy for ALK-Rearranged Non-Small Cell Lung Cancer: Challenges Inform Promising Approaches. Cancers, 2021, 13, 1476.	3.7	21
11	Isolation of Circulating Biomarkers for Liquid Biopsy using Immunoaffinityâ€Based Stimuliâ€Responsive Hybrid Hydrogel Beads. Analysis & Sensing, 2021, 1, 117-129.	2.0	3
12	Quantification and immunoprofiling of bladder cancer cell-derived extracellular vesicles with microfluidic chemiluminescent ELISA. Biosensors and Bioelectronics: X, 2021, 8, 100066.	1.7	6
13	Extracellular Vesicles in Serum and Central Nervous System Tissues Contain microRNA Signatures in Sporadic Amyotrophic Lateral Sclerosis. Frontiers in Molecular Neuroscience, 2021, 14, 739016.	2.9	17
14	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
15	Epidermal Growth Factor Receptor Mutations Carried in Extracellular Vesicle-Derived Cargo Mirror Disease Status in Metastatic Non-small Cell Lung Cancer. Frontiers in Cell and Developmental Biology, 2021, 9, 724389.	3.7	0
16	Epidermal Growth Factor Receptor Mutations Carried in Extracellular Vesicle-Derived Cargo Mirror Disease Status in Metastatic Non-small Cell Lung Cancer. Frontiers in Cell and Developmental Biology, 2021, 9, 724389.	3.7	8
17	High-Throughput Label-Free Isolation of Heterogeneous Circulating Tumor Cells and CTC Clusters from Non-Small-Cell Lung Cancer Patients. Cancers, 2020, 12, 127.	3.7	60
18	Extracellular vesicles on demand (EVOD) chip for screening and quantification of cancer-associated extracellular vesicles. Biosensors and Bioelectronics, 2020, 168, 112535.	10.1	32

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19	Simultaneous Single Cell Gene Expression and EGFR Mutation Analysis of Circulating Tumor Cells Reveals Distinct Phenotypes in NSCLC. Advanced Biology, 2020, 4, e2000110.	3.0	12
20	Dualâ€Isolation and Profiling of Circulating Tumor Cells and Cancer Exosomes from Blood Samples with Melanoma Using Immunoaffinityâ€Based Microfluidic Interfaces. Advanced Science, 2020, 7, 2001581.	11.2	53
21	Tumour-reprogrammed stromal BCAT1 fuels branched-chain ketoacid dependency in stromal-rich PDAC tumours. Nature Metabolism, 2020, 2, 775-792.	11.9	110
22	Microfluidic device for high-throughput affinity-based isolation of extracellular vesicles. Lab on A Chip, 2020, 20, 1762-1770.	6.0	57
23	Expansion of Circulating Tumor Cells from Patients with Locally Advanced Pancreatic Cancer Enable Patient Derived Xenografts and Functional Studies for Personalized Medicine. Cancers, 2020, 12, 1011.	3.7	29
24	Isolation and Profiling of Circulating Tumorâ€Associated Exosomes Using Extracellular Vesicular Lipidâ€“Protein Binding Affinity Based Microfluidic Device. Small, 2019, 15, e1903600.	10.0	106
25	Multiplex isolation and profiling of extracellular vesicles using a microfluidic DICE device. Analyst, The, 2019, 144, 5785-5793.	3.5	15
26	PD-L1 Expression in Circulating Tumor Cells Increases during Radio(chemo)therapy and Indicates Poor Prognosis in Non-small Cell Lung Cancer. Scientific Reports, 2019, 9, 566.	3.3	90
27	Hydro-Seq enables contamination-free high-throughput single-cell RNA-sequencing for circulating tumor cells. Nature Communications, 2019, 10, 2163.	12.8	172
28	A temporary indwelling intravascular aphaeretic system for in vivo enrichment of circulating tumor cells. Nature Communications, 2019, 10, 1478.	12.8	80
29	New Labyrinth Microfluidic Device Detects Circulating Tumor Cells Expressing Cancer Stem Cell Marker and Circulating Tumor Microemboli in Hepatocellular Carcinoma. Scientific Reports, 2019, 9, 18575.	3.3	38
30	Detection of CTC Clusters and a Dedifferentiated RNAâ€Expression Survival Signature in Prostate Cancer. Advanced Science, 2019, 6, 1801254.	11.2	30
31	Characterizing Circulating Tumor Cells Isolated from Metastatic Breast Cancer Patients Using Graphene Oxide Based Microfluidic Assay. Advanced Biology, 2019, 3, e1800278.	3.0	19
32	Circulating tumor cell-derived organoids: Current challenges and promises in medical research and precision medicine. Biochimica Et Biophysica Acta: Reviews on Cancer, 2018, 1869, 117-127.	7.4	106
33	Circulating Tumor Cells: Diagnostic and Therapeutic Applications. Annual Review of Biomedical Engineering, 2018, 20, 329-352.	12.3	79
34	Label-Free, High-Throughput Purification of Satellite Cells Using Microfluidic Inertial Separation. Tissue Engineering - Part C: Methods, 2018, 24, 32-41.	2.1	15
35	Profiling Heterogeneous Circulating Tumor Cells (CTC) Populations in Pancreatic Cancer Using a Serial Microfluidic CTC Carpet Chip. Advanced Biology, 2018, 2, 1800228.	3.0	13
36	Microfluidic continuum sorting of sub-populations of tumor cells via surface antibody expression levels. Lab on A Chip, 2017, 17, 1349-1358.	6.0	26

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37	High-Throughput Microfluidic Labyrinth for the Label-free Isolation of Circulating Tumor Cells. Cell Systems, 2017, 5, 295-304.e4.	6.2	88
38	Poor Prognosis Indicated by Venous Circulating Tumor Cell Clusters in Early-Stage Lung Cancers. Cancer Research, 2017, 77, 5194-5206.	0.9	139
39	HER2 and EGFR Overexpression Support Metastatic Progression of Prostate Cancer to Bone. Cancer Research, 2017, 77, 74-85.	0.9	137
40	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. Journal of Thoracic Oncology, 2017, 12, 397-402.	1.1	37
41	Optimizing the Detection of Circulating Markers to Aid in Early Lung Cancer Detection. Cancers, 2016, 8, 61.	3.7	12
42	Tunable Thermalâ€Sensitive Polymerâ€“Graphene Oxide Composite for Efficient Capture and Release of Viable Circulating Tumor Cells. Advanced Materials, 2016, 28, 4891-4897.	21.0	130
43	GM-CSF Mediates Mesenchymalâ€“Epithelial Cross-talk in Pancreatic Cancer. Cancer Discovery, 2016, 6, 886-899.	9.4	156
44	Ultraâ€Specific Isolation of Circulating Tumor Cells Enables Rareâ€Cell RNA Profiling. Advanced Science, 2016, 3, 1600063.	11.2	27
45	Affinity Versus Labelâ€Free Isolation of Circulating Tumor Cells: Who Wins?. Small, 2016, 12, 4450-4463.	10.0	90
46	Opportunities and Challenges for Pancreatic Circulating TumorÂCells. Gastroenterology, 2016, 151, 412-426.	1.3	60
47	Image-Guided Biopsy in the Era of Personalized Cancer Care: Proceedings from the Society of Interventional Radiology Research Consensus Panel. Journal of Vascular and Interventional Radiology, 2016, 27, 8-19.	0.5	87
48	Pulmonary venous blood sampling significantly increases the yield of circulating tumor cells in early-stage lung cancer. Journal of Thoracic and Cardiovascular Surgery, 2016, 151, 852-858.	0.8	53
49	The incorporation of microfluidics into circulating tumor cell isolation for clinical applications. Current Opinion in Chemical Engineering, 2016, 11, 59-66.	7.8	12
50	Current Status of CTCs as Liquid Biopsy in Lung Cancer and Future Directions. Frontiers in Oncology, 2015, 5, 209.	2.8	48
51	Breast Cancer Stem Cells: Current Advances and Clinical Implications. Methods in Molecular Biology, 2015, 1293, 1-49.	0.9	85
52	"Universal" vitrification of cells by ultra-fast cooling. Technology, 2015, 03, 64-71.	1.4	16
53	Expansion of CTCs from early stage lung cancer patients using a microfluidic co-culture model. Oncotarget, 2014, 5, 12383-12397.	1.8	175
54	Cascaded spiral microfluidic device for deterministic and high purity continuous separation of circulating tumor cells. Biomicrofluidics, 2014, 8, 064117.	2.4	75

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55	Microfluidic device (ExoChip) for on-chip isolation, quantification and characterization of circulating exosomes. Lab on A Chip, 2014, 14, 1891-1900.	6.0	522
56	A Radial Flow Microfluidic Device for Ultraâ€Highâ€Throughput Affinityâ€Based Isolation of Circulating Tumor Cells. Small, 2014, 10, 4895-4904.	10.0	115
57	Emerging Role of Nanomaterials in Circulating Tumor Cell Isolation and Analysis. ACS Nano, 2014, 8, 1995-2017.	14.6	225
58	Sensitive capture of circulating tumour cells by functionalized graphene oxide nanosheets. Nature Nanotechnology, 2013, 8, 735-741.	31.5	487
59	Microfluidics and cancer: are we there yet?. Biomedical Microdevices, 2013, 15, 595-609.	2.8	95
60	Isolation and Characterization of Circulating Tumor Cells from Patients with Localized and Metastatic Prostate Cancer. Science Translational Medicine, 2010, 2, 25ra23.	12.4	474
61	Isolation of circulating tumor cells using a microvortex-generating herringbone-chip. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18392-18397.	7.1	1,454
62	The CTC-Chip: An Exciting New Tool to Detect Circulating Tumor Cells in Lung Cancer Patients. Journal of Thoracic Oncology, 2009, 4, 281-283.	1.1	192
63	Detection of Mutations inEGFRin Circulating Lung-Cancer Cells. New England Journal of Medicine, 2008, 359, 366-377.	27.0	1,602
64	Isolation of rare circulating tumour cells in cancer patients by microchip technology. Nature, 2007, 450, 1235-1239.	27.8	3,272
65	The marrow niche controls the cancer stem cell phenotype of disseminated prostate cancer. Oncotarget, 0, 7, 41217-41232.	1.8	57
66	Cancer cells spread aggressively during sleep. Nature, 0, , .	27.8	1