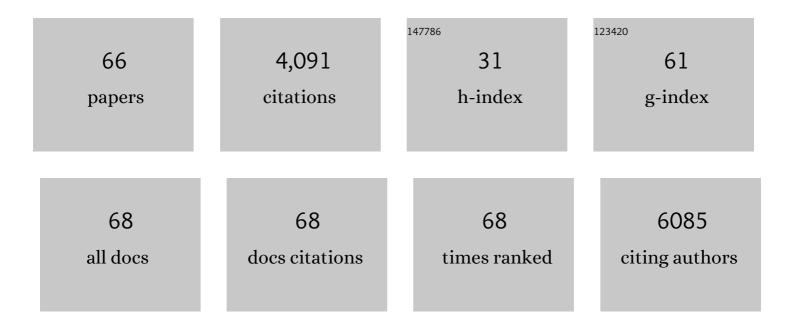
Nathalie Y R Agar

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Multimodal platform for assessing drug distribution and response in clinical trials. Neuro-Oncology, 2022, 24, 64-77. | 1.2 | 4 |
| 2 | massNet: integrated processing and classification of spatially resolved mass spectrometry data using deep learning for rapid tumor delineation. Bioinformatics, 2022, 38, 2015-2021. | 4.1 | 13 |
| 3 | A non-dividing cell population with high pyruvate dehydrogenase kinase activity regulates metabolic heterogeneity and tumorigenesis in the intestine. Nature Communications, 2022, 13, 1503. | 12.8 | 22 |
| 4 | Multiplatform Metabolomics Studies of Human Cancers With NMR and Mass Spectrometry Imaging. Frontiers in Molecular Biosciences, 2022, 9, 785232. | 3.5 | 5 |
| 5 | Overcoming differential tumor penetration of BRAF inhibitors using computationally guided combination therapy. Science Advances, 2022, 8, eabl6339. | 10.3 | 6 |
| 6 | Spatial Distribution of Transcytosis Relevant Phospholipids in Response to Omega-3 Dietary Deprivation. ACS Chemical Biology, 2021, 16, 106-115. | 3.4 | 3 |
| 7 | A unique subset of glycolytic tumour-propagating cells drives squamous cell carcinoma. Nature Metabolism, 2021, 3, 182-195. | 11.9 | 17 |
| 8 | DDRE-32. THERAPEUTIC TARGETING OF A NOVEL METABOLIC ADDICTION IN DIFFUSE MIDLINE GLIOMA. Neuro-Oncology Advances, 2021, 3, i13-i13. | 0.7 | 0 |
| 9 | β-Cyclodextrin-poly (β-Amino Ester) Nanoparticles Are a Generalizable Strategy for High Loading and Sustained Release of HDAC Inhibitors. ACS Applied Materials & Interfaces, 2021, 13, 20960-20973. | 8.0 | 15 |
| 10 | Heterogeneous delivery across the blood-brain barrier limits the efficacy of an EGFR-targeting antibody drug conjugate in glioblastoma. Neuro-Oncology, 2021, 23, 2042-2053. | 1.2 | 37 |
| 11 | Bringing Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging to the Clinics. Clinics in Laboratory Medicine, 2021, 41, 309-324. | 1.4 | 11 |
| 12 | EPCT-09. CNS LEVELS OF PANOBINOSTAT IN A NON-HUMAN PRIMATE MODEL: COMPARISON OF BLOOD AND CEREBROSPINAL FLUID PHARMACOKINETIC METHODS AND MALDI MSI. Neuro-Oncology, 2021, 23, i48-i48. | 1.2 | 0 |
| 13 | Abstract 1816: Phenogenomic characterization of immunomodulatory purinergic signaling in glioblastoma. , 2021, , . | | 0 |
| 14 | High-Throughput Analysis of Tissue-Embedded Single Cells by Mass Spectrometry with Bimodal Imaging and Object Recognition. Analytical Chemistry, 2021, 93, 9677-9687. | 6.5 | 17 |
| 15 | Interim clinical trial analysis of intraoperative mass spectrometry for breast cancer surgery. Npj Breast Cancer, 2021, 7, 116. | 5.2 | 10 |
| 16 | Peak learning of mass spectrometry imaging data using artificial neural networks. Nature Communications, 2021, 12, 5544. | 12.8 | 43 |
| 17 | NIMG-75. ANALYZING THE INTERFACE BETWEEN MRI AND DRUG DISTRIBUTION USING ORTHOTOPIC GBM-DERIVED XENOGRAFT (PDX) MODELS. Neuro-Oncology, 2021, 23, vi146-vi146. | 1.2 | 0 |
| 18 | EXTH-64. COMPARISON OF PANOBINOSTAT CSF PENETRATION WITH CNS PENETRATION FOLLOWING SYSTEMIC ADMINISTRATION IN A PRE-CLINICAL NON-HUMAN PRIMATE MODEL. Neuro-Oncology, 2021, 23, vi177-vi178. | 1.2 | 0 |

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|----|--|----------|-----------|
| 19 | Pre- and Postoperative Neratinib for HER2-Positive Breast Cancer Brain Metastases: Translational Breast Cancer Research Consortium 022. Clinical Breast Cancer, 2020, 20, 145-151.e2. | 2.4 | 21 |
| 20 | PHD3 Loss Promotes Exercise Capacity and Fat Oxidation in Skeletal Muscle. Cell Metabolism, 2020, 32, 215-228.e7. | 16.2 | 22 |
| 21 | Localized Metabolomic Gradients in Patient-Derived Xenograft Models of Glioblastoma. Cancer Research, 2020, 80, 1258-1267. | 0.9 | 67 |
| 22 | Rapid MALDI mass spectrometry imaging for surgical pathology. Npj Precision Oncology, 2019, 3, 17. | 5.4 | 59 |
| 23 | Quantitative Wide-Field Imaging Techniques for Fluorescence Guided Neurosurgery. Frontiers in Surgery, 2019, 6, 31. | 1.4 | 21 |
| 24 | A large-scale drug screen identifies selective inhibitors of class I HDACs as a potential therapeutic option for SHH medulloblastoma. Neuro-Oncology, 2019, 21, 1150-1163. | 1.2 | 24 |
| 25 | Metal Oxide Laser Ionization Mass Spectrometry Imaging (MOLI MSI) Using Cerium(IV) Oxide. Analytical Chemistry, 2019, 91, 6800-6807. | 6.5 | 14 |
| 26 | Genetically Encoded Fluorescent Proteins Enable High-Throughput Assignment of Cell Cohorts Directly from MALDI-MS Images. Analytical Chemistry, 2019, 91, 3810-3817. | 6.5 | 3 |
| 27 | Automatic 3D Nonlinear Registration of Mass Spectrometry Imaging and Magnetic Resonance Imaging Data. Analytical Chemistry, 2019, 91, 6206-6216. | 6.5 | 45 |
| 28 | Molecular Characterization of Prostate Cancer with Associated Gleason Score Using Mass Spectrometry Imaging. Molecular Cancer Research, 2019, 17, 1155-1165. | 3.4 | 50 |
| 29 | Unique Intradural Inflammatory Mass Containing Precipitated Morphine: Confirmatory Analysis by LESAâ€MS and MALDIâ€MS. Pain Practice, 2018, 18, 889-894. | 1.9 | 16 |
| 30 | In Vitro Liquid Extraction Surface Analysis Mass Spectrometry (ivLESA-MS) for Direct Metabolic Analysis of Adherent Cells in Culture. Analytical Chemistry, 2018, 90, 4987-4991. | 6.5 | 18 |
| 31 | Is the blood–brain barrier really disrupted in all glioblastomas? A critical assessment of existing clinical data. Neuro-Oncology, 2018, 20, 184-191. | 1.2 | 443 |
| 32 | Prostate cancer diagnosis and characterization with mass spectrometry imaging. Prostate Cancer and Prostatic Diseases, 2018, 21, 297-305. | 3.9 | 19 |
| 33 | TMOD-07. LOCALIZATION OF ERLOTONIB RELATIVE TO MRI-BASED TUMOR EXTENT IN PDX GLIOBLASTOMA MODEL: TOWARDS A MATHEMATICAL MODEL FOR THE INTERFACE BETWEEN MRI AND DRUG DISTRIBUTION. Neuro-Oncology, 2018, 20, vi269-vi270. | 1.2 | 1 |
| 34 | ACTR-14. PHASE I STUDY OF AZD1775 WITH RADIATION THERAPY (RT) AND TEMOZOLOMIDE (TMZ) IN PATIENTS WITH NEWLY DIAGNOSED GLIOBLASTOMA (GBM) AND EVALUATION OF INTRATUMORAL DRUG DISTRIBUTION (IDD) IN PATIENTS WITH RECURRENT GBM. Neuro-Oncology, 2018, 20, vi13-vi14. | 5 1.2 | 6 |
| 35 | Integrated mapping of pharmacokinetics and pharmacodynamics in a patient-derived xenograft model of glioblastoma. Nature Communications, 2018, 9, 4904. | 12.8 | 62 |
| 36 | Blood–brain-barrier organoids for investigating the permeability of CNS therapeutics. Nature Protocols, 2018, 13, 2827-2843. | 12.0 | 185 |

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|----|---|------|-----------|
| 37 | Efficacy of the MDM2 Inhibitor SAR405838 in Glioblastoma Is Limited by Poor Distribution Across the Blood–Brain Barrier. Molecular Cancer Therapeutics, 2018, 17, 1893-1901. | 4.1 | 37 |
| 38 | Rapid discrimination of pediatric brain tumors by mass spectrometry imaging. Journal of Neuro-Oncology, 2018, 140, 269-279. | 2.9 | 45 |
| 39 | Blood-brain-barrier spheroids as an in vitro screening platform for brain-penetrating agents. Nature Communications, 2017, 8, 15623. | 12.8 | 224 |
| 40 | Coordinated Splicing of Regulatory Detained Introns within Oncogenic Transcripts Creates an Exploitable Vulnerability in Malignant Glioma. Cancer Cell, 2017, 32, 411-426.e11. | 16.8 | 161 |
| 41 | Osteoglycin promotes meningioma development through downregulation of NF2 and activation of mTOR signaling. Cell Communication and Signaling, 2017, 15, 34. | 6.5 | 21 |
| 42 | Multiple spatially related pharmacophores define small molecule inhibitors of OLIG2 in glioblastoma. Oncotarget, 2017, 8, 22370-22384. | 1.8 | 23 |
| 43 | Increased expression of programmed death ligand 1 (PD-L1) in human pituitary tumors. Oncotarget, 2016, 7, 76565-76576. | 1.8 | 100 |
| 44 | Label-Free Neurosurgical Pathology with Stimulated Raman Imaging. Cancer Research, 2016, 76, 3451-3462. | 0.9 | 119 |
| 45 | First <i>In Vivo</i> Testing of Compounds Targeting Group 3 Medulloblastomas Using an Implantable Microdevice as a New Paradigm for Drug Development. Journal of Biomedical Nanotechnology, 2016, 12, 1297-1302. | 1.1 | 36 |
| 46 | Translational Breast Cancer Research Consortium (TBCRC) 022: A Phase II Trial of Neratinib for Patients With Human Epidermal Growth Factor Receptor 2–Positive Breast Cancer and Brain Metastases. Journal of Clinical Oncology, 2016, 34, 945-952. | 1.6 | 148 |
| 47 | Profiling of adrenocorticotropic hormone and arginine vasopressin in human pituitary gland and tumor thin tissue sections using droplet-based liquid-microjunction surface-sampling-HPLC–ESI-MS–MS. Analytical and Bioanalytical Chemistry, 2015, 407, 5989-5998. | 3.7 | 24 |
| 48 | MALDI mass spectrometry imaging analysis of pituitary adenomas for near-real-time tumor delineation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9978-9983. | 7.1 | 73 |
| 49 | Molecular typing of meningiomas by desorption electrospray ionization mass spectrometry imaging for surgical decision-making. International Journal of Mass Spectrometry, 2015, 377, 690-698. | 1.5 | 46 |
| 50 | The Efficacy of the Wee1 Inhibitor MK-1775 Combined with Temozolomide Is Limited by Heterogeneous Distribution across the Blood–Brain Barrier in Glioblastoma. Clinical Cancer Research, 2015, 21, 1916-1924. | 7.0 | 86 |
| 51 | Efficacy of PARP Inhibitor Rucaparib in Orthotopic Glioblastoma Xenografts Is Limited by Ineffective Drug Penetration into the Central Nervous System. Molecular Cancer Therapeutics, 2015, 14, 2735-2743. | 4.1 | 75 |
| 52 | Multimodal imaging for improved diagnosis and treatment of cancers. Cancer, 2015, 121, 817-827. | 4.1 | 91 |
| 53 | Imaging and Mapping of Tissue Constituents at the Single-Cell Level Using MALDI MSI and Quantitative Laser Scanning Cytometry. Methods in Molecular Biology, 2015, 1346, 133-149. | 0.9 | 2 |
| 54 | Reconstruction and feature selection for desorption electrospray ionization mass spectroscopy imagery. Proceedings of SPIE, 2014, 9036, 90360D. | 0.8 | 3 |

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|----|--|------|-----------|
| 55 | Application of desorption electrospray ionization mass spectrometry imaging in breast cancer margin analysis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15184-15189. | 7.1 | 207 |
| 56 | Intraoperative mass spectrometry mapping of an onco-metabolite to guide brain tumor surgery. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11121-11126. | 7.1 | 230 |
| 57 | TBCRC 022: Phase II trial of neratinib for patients (Pts) with human epidermal growth factor receptor 2 (HER2+) breast cancer and brain metastases (BCBM) Journal of Clinical Oncology, 2014, 32, 528-528. | 1.6 | 4 |
| 58 | Molecular imaging of drug transit through the blood-brain barrier with MALDI mass spectrometry imaging. Scientific Reports, 2013, 3, 2859. | 3.3 | 118 |
| 59 | Ambient mass spectrometry for the intraoperative molecular diagnosis of human brain tumors. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1611-1616. | 7.1 | 251 |
| 60 | Classifying Human Brain Tumors by Lipid Imaging with Mass Spectrometry. Cancer Research, 2012, 72, 645-654. | 0.9 | 273 |
| 61 | Desorption Electrospray Ionization then MALDI Mass Spectrometry Imaging of Lipid and Protein Distributions in Single Tissue Sections. Analytical Chemistry, 2011, 83, 8366-8371. | 6.5 | 142 |
| 62 | Development of Stereotactic Mass Spectrometry for Brain Tumor Surgery. Neurosurgery, 2011, 68, 280-290. | 1.1 | 58 |
| 63 | Discrimination of Human Astrocytoma Subtypes by Lipid Analysis Using Desorption Electrospray Ionization Imaging Mass Spectrometry. Angewandte Chemie - International Edition, 2010, 49, 5953-5956. | 13.8 | 116 |
| 64 | Tissue Preparation for the In Situ MALDI MS Imaging of Proteins, Lipids, and Small Molecules at Cellular Resolution. Methods in Molecular Biology, 2010, 656, 415-431. | 0.9 | 14 |
| 65 | Imaging of Meningioma Progression by Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2010, 82, 2621-2625. | 6.5 | 40 |
| 66 | Matrix Solution Fixation:Â Histology-Compatible Tissue Preparation for MALDI Mass Spectrometry Imaging. Analytical Chemistry, 2007, 79, 7416-7423. | 6.5 | 45 |