Kevin Petrecca

List of Publications by Year
in descending order

62	4,241	172457 29	138484 58
papers	citations	h-index	g-index

64	64	64	6601
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spatially mapping the immune landscape of melanoma using imaging mass cytometry. Science Immunology, 2022, 7, eabi5072.	11.9	60
2	Glioblastoma scRNA-seq shows treatment-induced, immune-dependent increase in mesenchymal cancer cells and structural variants in distal neural stem cells. Neuro-Oncology, 2022, 24, 1494-1508.	1.2	11
3	Phase III trial of chemoradiotherapy with temozolomide plus nivolumab or placebo for newly diagnosed glioblastoma with methylated MGMT promoter. Neuro-Oncology, 2022, 24, 1935-1949.	1.2	165
4	Regional and ageâ€related diversity of human mature oligodendrocytes. Glia, 2022, 70, 1938-1949.	4.9	9
5	Endoscopic third ventriculostomy for VP shunt malfunction during the third trimester of pregnancy: illustrative case. Journal of Neurosurgery Case Lessons, 2021, 1, .	0.3	0
6	Age-related injury responses of human oligodendrocytes to metabolic insults: link to BCL-2 and autophagy pathways. Communications Biology, 2021, 4, 20.	4.4	17
7	Handheld macroscopic Raman spectroscopy imaging instrument for machine-learning-based molecular tissue margins characterization. Journal of Biomedical Optics, 2021, 26, .	2.6	15
8	The Underlying Biology and Therapeutic Vulnerabilities of Leptomeningeal Metastases in Adult Solid Cancers. Cancers, 2021, 13, 732.	3.7	14
9	Glioblastoma cell populations with distinct oncogenic programs release podoplanin as procoagulant extracellular vesicles. Blood Advances, 2021, 5, 1682-1694.	5.2	46
10	STAT1 potentiates oxidative stress revealing a targetable vulnerability that increases phenformin efficacy in breast cancer. Nature Communications, 2021, 12, 3299.	12.8	24
11	Single Cell Transcriptomics of Ependymal Cells Across Age, Region and Species Reveals Cilia-Related and Metal Ion Regulatory Roles as Major Conserved Ependymal Cell Functions. Frontiers in Cellular Neuroscience, 2021, 15, 703951.	3.7	31
12	OPTC-5. Molecular signatures of podoplanin expressing glioblastoma cell subsets with putative role in cancer associated thrombosis and microthrombosis. Neuro-Oncology Advances, 2021, 3, ii7-ii7.	0.7	0
13	Invasive growth associated with cold-inducible RNA-binding protein expression drives recurrence of surgically resected brain metastases. Neuro-Oncology, 2021, 23, 1470-1480.	1.2	18
14	TAMI-73. GLIOBLASTOMA CELL POPULATIONS WITH DISTINCT ONCOGENIC PROGRAMS RELEASE PODOPLANIN AS PROCOAGULANT EXTRACELLULAR VESICLES. Neuro-Oncology, 2021, 23, vi213-vi213.	1.2	0
15	NIMG-74. RESPONSE ASSESSMENT AFTER DOSE-ESCALATED RADIOTHERAPY: IMAGING PROTOCOL OF A MULTICENTER PHASE III TRIAL ON INTRAOPERATIVE RADIOTHERAPY IN NEWLY DIAGNOSED GLIOBLASTOMA (INTRAGO-II;ARO2016-1;AG-NRO-03). Neuro-Oncology, 2021, 23, vi146-vi146.	1.2	0
16	CTIM-25. A RANDOMIZED PHASE 3 STUDY OF NIVOLUMAB OR PLACEBO COMBINED WITH RADIOTHERAPY PLUS TEMOZOLOMIDE IN PATIENTS WITH NEWLY DIAGNOSED GLIOBLASTOMA WITH METHYLATED MGMT PROMOTER: CHECKMATE 548. Neuro-Oncology, 2021, 23, vi55-vi56.	1.2	16
17	IMMU-14. REVEALING THE MANY MYELOID STATES IN HUMAN BRAIN TUMORS AND WAYS TO PERTURB THEM. Neuro-Oncology, 2021, 23, vi94-vi95.	1.2	0
18	Chemogenomic profiling of breast cancer patient-derived xenografts reveals targetable vulnerabilities for difficult-to-treat tumors. Communications Biology, 2020, 3, 310.	4.4	28

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19	MGMT promoter methylation level in newly diagnosed low-grade glioma is a predictor of hypermutation at recurrence. Neuro-Oncology, 2020, 22, 1580-1590.	1.2	55
20	Single-cell RNA-seq reveals that glioblastoma recapitulates a normal neurodevelopmental hierarchy. Nature Communications, 2020, 11, 3406.	12.8	300
21	Expanding the phenotypic and molecular spectrum of RNA polymerase IIIâ€“related leukodystrophy. Neurology: Genetics, 2020, 6, e425.	1.9	20
22	Developmental trajectory of oligodendrocyte progenitor cells in the human brain revealed by single cell RNA sequencing. Glia, 2020, 68, 1291-1303.	4.9	44
23	MAFG-driven astrocytes promote CNS inflammation. Nature, 2020, 578, 593-599.	27.8	282
24	Quantitative spectral quality assessment technique validated using intraoperative in vivo Raman spectroscopy measurements. Journal of Biomedical Optics, 2020, 25, 1.	2.6	11
25	Rise of Raman spectroscopy in neurosurgery: a review. Journal of Biomedical Optics, 2020, 25, 1.	2.6	39
26	Mechanisms and Antitumor Activity of a Binary EGFR/DNAâ€“Targeting Strategy Overcomes Resistance of Glioblastoma Stem Cells to Temozolomide. Clinical Cancer Research, 2019, 25, 7594-7608.	7.0	28
27	Feature engineering applied to intraoperativein vivoRaman spectroscopy sheds light on molecular processes in brain cancer: a retrospective study of 65 patients. Analyst, The, 2019, 144, 6517-6532.	3.5	24
28	Development and first inâ€human use of a Raman spectroscopy guidance system integrated with a brain biopsy needle. Journal of Biophotonics, 2019, 12, e201800396.	2.3	41
29	Intraoperative Radiotherapy in Newly Diagnosed Glioblastoma (INTRAGO): An Open-Label, Dose-Escalation Phase I/II Trial. Neurosurgery, 2019, 84, 41-49.	1.1	39
30	Interstitial imaging with multiple diffusive reflectance spectroscopy projections for in vivo blood vessels detection during brain needle biopsy procedures. Neurophotonics, 2019, 6, 1.	3.3	7
31	A new method using Raman spectroscopy for in vivo targeted brain cancer tissue biopsy. Scientific Reports, 2018, 8, 1792.	3.3	149
32	Development and characterization of a handheld hyperspectral Raman imaging probe system for molecular characterization of tissue on mesoscopic scales. Medical Physics, 2018, 45, 328-339.	3.0	19
33	Inhibition of glioblastoma cell proliferation, invasion, and mechanism of action of a novel hydroxamic acid hybrid molecule. Cell Death Discovery, 2018, 4, 41.	4.7	30
34	First results on survival from a large Phase 3 clinical trial of an autologous dendritic cell vaccine in newly diagnosed glioblastoma. Journal of Translational Medicine, 2018, 16, 142.	4.4	376
35	Antibody-Antisense Oligonucleotide Conjugate Downregulates a Key Gene in Glioblastoma Stem Cells. Molecular Therapy - Nucleic Acids, 2018, 11, 518-527.	5.1	48
36	DZ-2384 has a superior preclinical profile to taxanes for the treatment of triple-negative breast cancer and is synergistic with anti-CTLA-4 immunotherapy. Anti-Cancer Drugs, 2018, 29, 774-785.	1.4	12

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37	Dual MAPK Inhibition Is an Effective Therapeutic Strategy for a Subset of Class II BRAF Mutant Melanomas. Clinical Cancer Research, 2018, 24, 6483-6494.	7.0	55
38	Combining intraoperative ultrasound brain shift correction and augmented reality visualizations: a pilot study of eight cases. Journal of Medical Imaging, 2018, 5, 1.	1.5	27
39	A Targetable EGFR-Dependent Tumor-Initiating Program in Breast Cancer. Cell Reports, 2017, 21, 1140-1149.	6.4	70
40	Highly Accurate Detection of Cancer In Situ with Intraoperative, Label-Free, Multimodal Optical Spectroscopy. Cancer Research, 2017, 77, 3942-3950.	0.9	81
41	IBIS: an OR ready open-source platform for image-guided neurosurgery. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 363-378.	2.8	74
42	NCMP-12. GLIOMA RELATED EPILEPSY: CLINICAL AND PATHOLOGICAL CORRELATES. Neuro-Oncology, 2017, 19, vi137-vi137.	1.2	0
43	RTHP-05. INTRAOPERATIVE RADIOTHERAPY (IORT) USING LOW-ENERGY X-RAYS IN AÂCOHORT OF PREDOMINANTLY INCOMPLETELY RESECTED NEWLY DIAGNOSED GLIOBLASTOMA MULTIFORME (INTRAGO) Tj ET Q q 1 0 0 1 0.78 4314 rg BT	2.1	1
44	Raman spectroscopy detects distant invasive brain cancer cells centimeters beyond MRI capability in humans. Biomedical Optics Express, 2016, 7, 5129.	2.9	64
45	Inhibition of carbonic anhydrase IX in glioblastoma multiforme. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 109, 81-92.	4.3	31
46	Decompressive Craniectomy for Ischemic Stroke: Effect of Hemorrhagic Transformation on Outcome. Journal of Stroke and Cerebrovascular Diseases, 2016, 25, 2177-2183.	1.6	13
47	Neural networks improve brain cancer detection with Raman spectroscopy in the presence of operating room light artifacts. Journal of Biomedical Optics, 2016, 21, 094002.	2.6	65
48	The oncometabolite 2-hydroxyglutarate activates the mTOR signalling pathway. Nature Communications, 2016, 7, 12700.	12.8	134
49	Sensitivity to PRIMA-1MET is associated with decreased MGMT in human glioblastoma cells and glioblastoma stem cells irrespective of p53 status. Oncotarget, 2016, 7, 60245-60269.	1.8	29
50	Rationale for intraoperative radiotherapy in glioblastoma. Journal of Neurosurgical Sciences, 2016, 60, 350-6.	0.6	8
51	Improved sensitivity to fluorescence for cancer detection in wide-field image-guided neurosurgery. Biomedical Optics Express, 2015, 6, 5063.	2.9	19
52	Comparison of radiation regimens in the treatment of Glioblastoma multiforme: results from a single institution. Radiation Oncology, 2015, 10, 106.	2.7	15
53	Detection, Characterization, and Inhibition of FGFRâ€“TACC Fusions in IDH Wild-type Glioma. Clinical Cancer Research, 2015, 21, 3307-3317.	7.0	230
54	Preclinical target validation using patient-derived cells. Nature Reviews Drug Discovery, 2015, 14, 149-150.	46.4	46

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55	Macroscopic-imaging technique for subsurface quantification of near-infrared markers during surgery. Journal of Biomedical Optics, 2015, 20, 036014.	2.6	14
56	Intraoperative brain cancer detection with Raman spectroscopy in humans. Science Translational Medicine, 2015, 7, 274ra19.	12.4	457
57	Characterization of a Raman spectroscopy probe system for intraoperative brain tissue classification. Biomedical Optics Express, 2015, 6, 2380.	2.9	123
58	Failure pattern following complete resection plus radiotherapy and temozolomide is at the resection margin in patients with glioblastoma. Journal of Neuro-Oncology, 2013, 111, 19-23.	2.9	246
59	Short Interval Infield Sarcoma Development following Resection of Glioblastoma and Adjuvant Radiotherapy and Temozolomide. Case Reports in Medicine, 2013, 2013, 1-4.	0.7	2
60	New prototype neuronavigation system based on preoperative imaging and intraoperative freehand ultrasound: system description and validation. International Journal of Computer Assisted Radiology and Surgery, 2011, 6, 507-522.	2.8	65
61	Paraclinoid aneurysm concealed by sphenoid wing meningioma. Acta Neurochirurgica, 2009, 151, 171-172.	1.7	6
62	Effects of Experimental Heart Failure on Atrial Cellular and Ionic Electrophysiology. Circulation, 2000, 101, 2631-2638.	1.6	356