## Kevin Petrecca

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6291036/publications.pdf

Version: 2024-02-01

62 papers

4,241 citations

172457 29 h-index 58 g-index

64 all docs

64 docs citations

64 times ranked 6601 citing authors

#	Article	IF	CITATIONS
1	Intraoperative brain cancer detection with Raman spectroscopy in humans. Science Translational Medicine, 2015, 7, 274ra19.	12.4	457
2	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
3	Effects of Experimental Heart Failure on Atrial Cellular and Ionic Electrophysiology. Circulation, 2000, 101, 2631-2638.	1.6	356
4	Single-cell RNA-seq reveals that glioblastoma recapitulates a normal neurodevelopmental hierarchy. Nature Communications, 2020, 11, 3406.	12.8	300
5	MAFG-driven astrocytes promote CNS inflammation. Nature, 2020, 578, 593-599.	27.8	282
6	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
7	Detection, Characterization, and Inhibition of FGFR–TACC Fusions in IDH Wild-type Glioma. Clinical Cancer Research, 2015, 21, 3307-3317.	7.0	230
8	Phase III trial of chemoradiotherapy with temozolomide plus nivolumab or placebo for newly diagnosed glioblastoma with methylated <i>MGMT</i> promoter. Neuro-Oncology, 2022, 24, 1935-1949.	1.2	165
9	A new method using Raman spectroscopy for in vivo targeted brain cancer tissue biopsy. Scientific Reports, 2018, 8, 1792.	3.3	149
10	The oncometabolite 2-hydroxyglutarate activates the mTOR signalling pathway. Nature Communications, 2016, 7, 12700.	12.8	134
10		12.8	134
	Communications, 2016, 7, 12700.  Characterization of a Raman spectroscopy probe system for intraoperative brain tissue classification.		
11	Communications, 2016, 7, 12700.  Characterization of a Raman spectroscopy probe system for intraoperative brain tissue classification. Biomedical Optics Express, 2015, 6, 2380.  Highly Accurate Detection of Cancer <i>In Situ</i>	2.9	123
11 12	Characterization of a Raman spectroscopy probe system for intraoperative brain tissue classification. Biomedical Optics Express, 2015, 6, 2380.  Highly Accurate Detection of Cancer <i>In Situ</i> with Intraoperative, Label-Free, Multimodal Optical Spectroscopy. Cancer Research, 2017, 77, 3942-3950.  IBIS: an OR ready open-source platform for image-guided neurosurgery. International Journal of	2.9	123 81
11 12 13	Characterization of a Raman spectroscopy probe system for intraoperative brain tissue classification. Biomedical Optics Express, 2015, 6, 2380.  Highly Accurate Detection of Cancer <i>In Situ</i> with Intraoperative, Label-Free, Multimodal Optical Spectroscopy. Cancer Research, 2017, 77, 3942-3950.  IBIS: an OR ready open-source platform for image-guided neurosurgery. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 363-378.  A Targetable EGFR-Dependent Tumor-Initiating Program in Breast Cancer. Cell Reports, 2017, 21,	2.9 0.9 2.8	123 81 74
11 12 13	Communications, 2016, 7, 12700.  Characterization of a Raman spectroscopy probe system for intraoperative brain tissue classification. Biomedical Optics Express, 2015, 6, 2380.  Highly Accurate Detection of Cancer <i>In Situ</i> Situ with Intraoperative, Label-Free, Multimodal Optical Spectroscopy. Cancer Research, 2017, 77, 3942-3950.  IBIS: an OR ready open-source platform for image-guided neurosurgery. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 363-378.  A Targetable EGFR-Dependent Tumor-Initiating Program in Breast Cancer. Cell Reports, 2017, 21, 1140-1149.  New prototype neuronavigation system based on preoperative imaging and intraoperative freehand ultrasound: system description and validation. International Journal of Computer Assisted Radiology	2.9 0.9 2.8 6.4	123 81 74 70
11 12 13 14	Communications, 2016, 7, 12700.  Characterization of a Raman spectroscopy probe system for intraoperative brain tissue classification. Biomedical Optics Express, 2015, 6, 2380.  Highly Accurate Detection of Cancer <i>In Situ</i> with Intraoperative, Label-Free, Multimodal Optical Spectroscopy. Cancer Research, 2017, 77, 3942-3950.  IBIS: an OR ready open-source platform for image-guided neurosurgery. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 363-378.  A Targetable EGFR-Dependent Tumor-Initiating Program in Breast Cancer. Cell Reports, 2017, 21, 1140-1149.  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.  Neural networks improve brain cancer detection with Raman spectroscopy in the presence of	2.9 0.9 2.8 6.4	123 81 74 70

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19	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
20	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
21	Antibody-Antisense Oligonucleotide Conjugate Downregulates a Key Gene in Glioblastoma Stem Cells. Molecular Therapy - Nucleic Acids, 2018, 11, 518-527.	5.1	48
22	Preclinical target validation using patient-derived cells. Nature Reviews Drug Discovery, 2015, 14, 149-150.	46.4	46
23	Glioblastoma cell populations with distinct oncogenic programs release podoplanin as procoagulant extracellular vesicles. Blood Advances, 2021, 5, 1682-1694.	5.2	46
24	Developmental trajectory of oligodendrocyte progenitor cells in the human brain revealed by single cell RNA sequencing. Glia, 2020, 68, 1291-1303.	4.9	44
25	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
26	Intraoperative Radiotherapy in Newly Diagnosed Glioblastoma (INTRAGO): An Open-Label, Dose-Escalation Phase I/II Trial. Neurosurgery, 2019, 84, 41-49.	1.1	39
27	Rise of Raman spectroscopy in neurosurgery: a review. Journal of Biomedical Optics, 2020, 25, 1.	2.6	39
28	Inhibition of carbonic anhydrase IX in glioblastoma multiforme. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 109, 81-92.	4.3	31
29	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
30	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
31	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
32	Mechanisms and Antitumor Activity of a Binary EGFR/DNA–Targeting Strategy Overcomes Resistance of Glioblastoma Stem Cells to Temozolomide. Clinical Cancer Research, 2019, 25, 7594-7608.	7.0	28
33	Chemogenomic profiling of breast cancer patient-derived xenografts reveals targetable vulnerabilities for difficult-to-treat tumors. Communications Biology, 2020, 3, 310.	4.4	28
34	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
35	Feature engineering applied to intraoperative (i>in vivo (i>Raman spectroscopy sheds light on molecular processes in brain cancer: a retrospective study of 65 patients. Analyst, The, 2019, 144, 6517-6532.	3.5	24
36	STAT1 potentiates oxidative stress revealing a targetable vulnerability that increases phenformin efficacy in breast cancer. Nature Communications, 2021, 12, 3299.	12.8	24

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37	Expanding the phenotypic and molecular spectrum of RNA polymerase III–related leukodystrophy. Neurology: Genetics, 2020, 6, e425.	1.9	20
38	Improved sensitivity to fluorescence for cancer detection in wide-field image-guided neurosurgery. Biomedical Optics Express, 2015, 6, 5063.	2.9	19
39	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
40	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
41	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
42	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
43	Comparison of radiation regimens in the treatment of Glioblastoma multiforme: results from a single institution. Radiation Oncology, 2015, 10, 106.	2.7	15
44	Handheld macroscopic Raman spectroscopy imaging instrument for machine-learning-based molecular tissue margins characterization. Journal of Biomedical Optics, 2021, 26, .	2.6	15
45	Macroscopic-imaging technique for subsurface quantification of near-infrared markers during surgery. Journal of Biomedical Optics, 2015, 20, 036014.	2.6	14
46	The Underlying Biology and Therapeutic Vulnerabilities of Leptomeningeal Metastases in Adult Solid Cancers. Cancers, 2021, 13, 732.	3.7	14
47	Decompressive Craniectomy for Ischemic Stroke: Effect of Hemorrhagic Transformation on Outcome. Journal of Stroke and Cerebrovascular Diseases, 2016, 25, 2177-2183.	1.6	13
48	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
49	Quantitative spectral quality assessment technique validated using intraoperative in vivo Raman spectroscopy measurements. Journal of Biomedical Optics, 2020, 25, 1.	2.6	11
50	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
51	Regional and ageâ€related diversity of human mature oligodendrocytes. Glia, 2022, 70, 1938-1949.	4.9	9
52	Rationale for intraoperative radiotherapy in glioblastoma. Journal of Neurosurgical Sciences, 2016, 60, 350-6.	0.6	8
53	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
54	Paraclinoid aneurysm concealed by sphenoid wing meningioma. Acta Neurochirurgica, 2009, 151, 171-172.	1.7	6

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55	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
56	RTHP-05. INTRAOPERATIVE RADIOTHERAPY (IORT) USING LOW-ENERGY X-RAYS IN AÂCOHORT OF PREDOMINANTLY INCOMPLETELY RESECTED NEWLY DIAGNOSED GLIOBLASTOMA MULTIFORME (INTRAGO) TJ ET	- <b>Qiq</b> 2000π	gBT /Overlo
57	NCMP-12. GLIOMA RELATED EPILEPSY: CLINICAL AND PATHOLOGICAL CORRELATES. Neuro-Oncology, 2017, 19, vi137-vi137.	1.2	O
58	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
59	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
60	TAMI-73. GLIOBLASTOMA CELL POPULATIONS WITH DISTINCT ONCOGENIC PROGRAMS RELEASE PODOPLANIN AS PROCOAGULANT EXTRACELLULAR VESICLES. Neuro-Oncology, 2021, 23, vi213-vi213.	1.2	0
61	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	O
62	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