

# Daniel A Orringer

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

4,262  
citations

201674

27  
h-index

118850

62  
g-index

69  
all docs

69  
docs citations

69  
times ranked

6121  
citing authors

#	ARTICLE	IF	CITATIONS
1	Near real-time intraoperative brain tumor diagnosis using stimulated Raman histology and deep neural networks. <i>Nature Medicine</i> , 2020, 26, 52-58.	30.7	413
2	Rapid, Label-Free Detection of Brain Tumors with Stimulated Raman Scattering Microscopy. <i>Science Translational Medicine</i> , 2013, 5, 201ra119.	12.4	398
3	Rapid intraoperative histology of unprocessed surgical specimens via fibre-laser-based stimulated Raman scattering microscopy. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	374
4	Extent of resection in patients with glioblastoma: limiting factors, perception of resectability, and effect on survival. <i>Journal of Neurosurgery</i> , 2012, 117, 851-859.	1.6	267
5	Ambient mass spectrometry for the intraoperative molecular diagnosis of human brain tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1611-1616.	7.1	251
6	Detection of human brain tumor infiltration with quantitative stimulated Raman scattering microscopy. <i>Science Translational Medicine</i> , 2015, 7, 309ra163.	12.4	249
7	Intraoperative mass spectrometry mapping of an onco-metabolite to guide brain tumor surgery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11121-11126.	7.1	230
8	Neuronavigation in the surgical management of brain tumors: current and future trends. <i>Expert Review of Medical Devices</i> , 2012, 9, 491-500.	2.8	189
9	Defining language networks from resting-state fMRI for surgical planning—a feasibility study. <i>Human Brain Mapping</i> , 2014, 35, 1018-1030.	3.6	176
10	Mechanisms of Glioma Formation: Iterative Perivascular Glioma Growth and Invasion Leads to Tumor Progression, VEGF-Independent Vascularization, and Resistance to Antiangiogenic Therapy. <i>Neoplasia</i> , 2014, 16, 543-561.	5.3	131
11	Multicolored stain-free histopathology with coherent Raman imaging. <i>Laboratory Investigation</i> , 2012, 92, 1492-1502.	3.7	130
12	Methylene Blue-Conjugated Hydrogel Nanoparticles and Tumor-Cell Targeted Photodynamic Therapy. <i>Macromolecular Bioscience</i> , 2011, 11, 90-99.	4.1	99
13	Rapid Intraoperative Diagnosis of Pediatric Brain Tumors Using Stimulated Raman Histology. <i>Cancer Research</i> , 2018, 78, 278-289.	0.9	98
14	$E2f1$ , $E2f2$ , and $E2f3$ Control E2F Target Expression and Cellular Proliferation via a p53-Dependent Negative Feedback Loop. <i>Molecular and Cellular Biology</i> , 2007, 27, 65-78.	2.3	94
15	Small Solutions for Big Problems: The Application of Nanoparticles to Brain Tumor Diagnosis and Therapy. <i>Clinical Pharmacology and Therapeutics</i> , 2009, 85, 531-534.	4.7	89
16	Improving the accuracy of brain tumor surgery via Raman-based technology. <i>Neurosurgical Focus</i> , 2016, 40, E9.	2.3	84
17	Transorbital penetrating injury: case series, review of the literature, and proposed management algorithm. <i>Journal of Neurosurgery</i> , 2011, 114, 53-61.	1.6	80
18	Dysphagia due to anterior cervical hyperostophytosis. <i>World Neurosurgery</i> , 2009, 72, 266-270.	1.3	70

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19	Hydrogel Nanoparticles with Covalently Linked Coomassie Blue for Brain Tumor Delineation Visible to the Surgeon. <i>Small</i> , 2012, 8, 884-891.	10.0	58
20	IN VITRO CHARACTERIZATION OF A TARGETED, DYE-LOADED NANODEVICE FOR INTRAOPERATIVE TUMOR DELINEATION. <i>Neurosurgery</i> , 2009, 64, 965-972.	1.1	56
21	Targeted blue nanoparticles as photoacoustic contrast agent for brain tumor delineation. <i>Nano Research</i> , 2011, 4, 1163-1173.	10.4	55
22	G-CSF secreted by mutant IDH1 glioma stem cells abolishes myeloid cell immunosuppression and enhances the efficacy of immunotherapy. <i>Science Advances</i> , 2021, 7, eabh3243.	10.3	53
23	A machine learning approach to predict early outcomes after pituitary adenoma surgery. <i>Neurosurgical Focus</i> , 2018, 45, E8.	2.3	49
24	Advances in the Surgical Management of Low-Grade Glioma. <i>Seminars in Radiation Oncology</i> , 2015, 25, 181-188.	2.2	42
25	The Brain Tumor Window Model. <i>Neurosurgery</i> , 2010, 66, 736-743.	1.1	40
26	Clinical Applications and Future Directions of Functional MRI. <i>Seminars in Neurology</i> , 2013, 32, 466-475.	1.4	35
27	Defining Glioblastoma Resectability Through the Wisdom of the Crowd: A Proof-of-Principle Study. <i>Neurosurgery</i> , 2017, 80, 590-601.	1.1	34
28	Intraoperative molecular imaging clinical trials: a review of 2020 conference proceedings. <i>Journal of Biomedical Optics</i> , 2021, 26, .	2.6	28
29	Direct neural current imaging in an intact cerebellum with magnetic resonance imaging. <i>NeuroImage</i> , 2016, 132, 477-490.	4.2	27
30	Supratentorial hemispheric ependymomas: an analysis of 109 adults for survival and prognostic factors. <i>Journal of Neurosurgery</i> , 2016, 125, 410-418.	1.6	26
31	Label-free brain tumor imaging using Raman-based methods. <i>Journal of Neuro-Oncology</i> , 2021, 151, 393-402.	2.9	26
32	Rapid, label-free detection of diffuse glioma recurrence using intraoperative stimulated Raman histology and deep neural networks. <i>Neuro-Oncology</i> , 2021, 23, 144-155.	1.2	25
33	Fluorescence Guidance and Intraoperative Adjuvants to Maximize Extent of Resection. <i>Neurosurgery</i> , 2021, 89, 727-736.	1.1	23
34	Surgical Adjuncts to Increase the Extent of Resection. <i>Neurosurgery Clinics of North America</i> , 2019, 30, 65-74.	1.7	22
35	Synthetic high-density lipoprotein nanoparticles for the treatment of Niemann-Pick diseases. <i>BMC Medicine</i> , 2019, 17, 200.	5.5	19
36	Real-time image guidance for brain tumor surgery through stimulated Raman scattering microscopy. <i>Expert Review of Anticancer Therapy</i> , 2014, 14, 359-361.	2.4	18

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37	Automated histologic diagnosis of CNS tumors with machine learning. <i>CNS Oncology</i> , 2020, 9, CNS56.	3.0	18
38	Cumulative incidence and predictors of neurosurgical interventions following nonsevere traumatic brain injury with mildly abnormal head imaging findings. <i>Journal of Trauma and Acute Care Surgery</i> , 2012, 73, 1247-1253.	2.1	17
39	Clinical Factors Associated With ICU-Specific Care Following Supratentorial Brain Tumor Resection and Validation of a Risk Prediction Score. <i>Critical Care Medicine</i> , 2018, 46, 1302-1308.	0.9	16
40	BDNF, COMT, and DRD2 polymorphisms and ability to return to work in adult patients with low- and high-grade glioma. <i>Neuro-Oncology Practice</i> , 2019, 6, 375-385.	1.6	16
41	Coherent Raman Scattering Microscopy for Evaluation of Head and Neck Carcinoma. <i>Otolaryngology - Head and Neck Surgery</i> , 2017, 157, 448-453.	1.9	14
42	Radiation-induced intradural malignant peripheral nerve sheath tumor of the cauda equina with diffuse leptomeningeal metastasis. <i>Journal of Neurosurgery: Spine</i> , 2014, 21, 719-726.	1.7	11
43	Dose-intensified chemoradiation is associated with altered patterns of failure and favorable survival in patients with newly diagnosed glioblastoma. <i>Journal of Neuro-Oncology</i> , 2019, 143, 313-319.	2.9	11
44	An automated tissue-to-diagnosis pipeline using intraoperative stimulated Raman histology and deep learning. <i>Molecular and Cellular Oncology</i> , 2020, 7, 1736742.	0.7	11
45	Aggressive Myeloid Sarcoma Causing Recurrent Spinal Cord Compression. <i>World Neurosurgery</i> , 2015, 84, 866.e7-866.e10.	1.3	10
46	Primary diffuse leptomeningeal melanomatosis: Description and recommendations. <i>Journal of Clinical Neuroscience</i> , 2018, 50, 139-143.	1.5	9
47	Nanotechnology in Neurosurgery. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2010, 1, .	0.8	8
48	Fast and slide-free imaging. <i>Nature Biomedical Engineering</i> , 2017, 1, 926-928.	22.5	8
49	Rapid Automated Analysis of Skull Base Tumor Specimens Using Intraoperative Optical Imaging and Artificial Intelligence. <i>Neurosurgery</i> , 2022, 90, 758-767.	1.1	8
50	Shedding Light on IDH1 Mutation in Gliomas. <i>Clinical Cancer Research</i> , 2018, 24, 2467-2469.	7.0	5
51	Clinical Translation of Stimulated Raman Histology. <i>Methods in Molecular Biology</i> , 2022, 2393, 225-236.	0.9	5
52	The effects of thymulin on macrophage responsiveness to interferon- $\beta$ . <i>Developmental and Comparative Immunology</i> , 2002, 26, 95-102.	2.3	4
53	An L-2 burst fracture and cauda equina syndrome due to tetanus. <i>Journal of Neurosurgery: Spine</i> , 2012, 16, 82-85.	1.7	4
54	Standard dose and dose-escalated radiation therapy are associated with favorable survival in select elderly patients with newly diagnosed glioblastoma. <i>Journal of Neuro-Oncology</i> , 2018, 138, 155-162.	2.9	4

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55	Posterior Fossa Craniotomy for Adherent Fourth Ventricle Neurocysticercosis. Operative Neurosurgery, 2019, 16, E154-E158.	0.8	4
56	ATIM-44. A PHASE I FIRST-IN-HUMAN TRIAL OF TWO ADENOVIRAL VECTORS EXPRESSING HSV1-TK AND FLT3L FOR TREATING NEWLY DIAGNOSED RESECTABLE MALIGNANT GLIOMA: THERAPEUTIC REPROGRAMMING OF THE BRAIN IMMUNE SYSTEM. Neuro-Oncology, 2019, 21, vi11-vi11.	1.2	4
57	Chapter 11. Nanoparticles for Cancer Diagnosis and Therapy. RSC Nanoscience and Nanotechnology, 2010, , 333-353.	0.2	3
58	Applications of artificial intelligence for image enhancement in pathology. , 2021, , 119-148.		2
59	Neurosurgical Advances for Malignant Gliomas. Cancer Journal (Sudbury, Mass ), 2021, 27, 364-370.	2.0	2
60	A Technical Description of the Brain Tumor Window Model: An In Vivo Model for the Evaluation of Intraoperative Contrast Agents. Acta Neurochirurgica Supplementum, 2011, 109, 259-263.	1.0	2
61	Stimulated Raman histology. , 2022, , 541-549.		2
62	Photodynamic characterization and optimization using multifunctional nanoparticles for brain cancer treatment. Proceedings of SPIE, 2013, , .	0.8	1
63	Correlation between brain tissue oxygen tension and regional cerebral oximetry in uninjured human brain under conditions of changing ventilation strategy. Journal of Clinical Monitoring and Computing, 2022, 36, 1227-1232.	1.6	1
64	In Reply to "Unusual Cause of Cord Compression" "A Pressing Issue for Neurosurgeons". World Neurosurgery, 2016, 92, 568.	1.3	0
65	A Rationale for the Use and Development of Methods for Image-Guided Brain Tumor Surgery. , 2014, , 479-483.		0
66	Rapid Intraoperative Diagnosis of Sellar Region Tumors Using Stimulated Raman Histology. , 2019, 80, .		0
67	Editorial. Resting-state fMRI for the masses. Journal of Neurosurgery, 2019, 131, 757-758.	1.6	0
68	In Reply: Fluorescence Guidance and Intraoperative Adjuvants to Maximize Extent of Resection. Neurosurgery, 2022, Publish Ahead of Print, .	1.1	0