Pablo A Valdes

List of Publications by Year
in descending order

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37 papers	2,612 citations	257450 24 h-index	345221 36 g-index

38 all docs	38 docs citations	38 times ranked	2980 citing authors

#	Article	IF	Citations
1	Pre-clinical whole-body fluorescence imaging: Review of instruments, methods and applications. Journal of Photochemistry and Photobiology B: Biology, 2010, 98, 77-94.	3.8	520
2	Quantitative fluorescence in intracranial tumor: implications for ALA-induced PpIX as an intraoperative biomarker. Journal of Neurosurgery, 2011, 115, 11-17.	1.6	279
3	Coregistered fluorescence-enhanced tumor resection of malignant glioma: relationships between Î´-aminolevulinic acidâ€“induced protoporphyrin IX fluorescence, magnetic resonance imaging enhancement, and neuropathological parameters. Journal of Neurosurgery, 2011, 114, 595-603.	1.6	250
4	Quantitative fluorescence using 5-aminolevulinic acid-induced protoporphyrin IX biomarker as a surgical adjunct in low-grade glioma surgery. Journal of Neurosurgery, 2015, 123, 771-780.	1.6	131
5	Â-aminolevulinic acid-induced protoporphyrin IX concentration correlates with histopathologic markers of malignancy in human gliomas: the need for quantitative fluorescence-guided resection to identify regions of increasing malignancy. Neuro-Oncology, 2011, 13, 846-856.	1.2	128
6	Combined fluorescence and reflectance spectroscopy for in vivo quantification of cancer biomarkers in low- and high-grade glioma surgery. Journal of Biomedical Optics, 2011, 16, 116007.	2.6	112
7	Review of Neurosurgical Fluorescence Imaging Methodologies. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 493-505.	2.9	109
8	Selective Incorporation of Polyanionic Molecules into Hamster Prions. Journal of Biological Chemistry, 2007, 282, 36341-36353.	3.4	100
9	Quantitative, spectrally-resolved intraoperative fluorescence imaging. Scientific Reports, 2012, 2, 798.	3.3	99
10	Optical technologies for intraoperative neurosurgical guidance. Neurosurgical Focus, 2016, 40, E8.	2.3	96
11	Quantitative and qualitative 5-aminolevulinic acidâ€“induced protoporphyrin IX fluorescence in skull base meningiomas. Neurosurgical Focus, 2011, 30, E8.	2.3	58
12	5-Aminolevulinic Acid-Induced Protoporphyrin IX Fluorescence in Meningioma. Operative Neurosurgery, 2014, 10, 74-83.	0.8	56
13	System and methods for wide-field quantitative fluorescence imaging during neurosurgery. Optics Letters, 2013, 38, 2786.	3.3	50
14	Estimation of Brain Deformation for Volumetric Image Updating in Protoporphyrin IX Fluorescence-Guided Resection. Stereotactic and Functional Neurosurgery, 2010, 88, 1-10.	1.5	49
15	Genetics of Glioblastoma: A Window into Its Imaging and Histopathologic Variability. Radiographics, 2011, 31, 1717-1740.	3.3	49
16	Readmission After Craniotomy for Tumor: A National Surgical Quality Improvement Program Analysis. Neurosurgery, 2017, 80, 551-562.	1.1	49
17	Deferoxamine Iron Chelation Increases Î´â€Aminolevulinic Acid Induced Protoporphyrin IX in Xenograft Glioma Model. Photochemistry and Photobiology, 2010, 86, 471-475.	2.5	44
18	Pulsed-light imaging for fluorescence guided surgery under normal room lighting. Optics Letters, 2013, 38, 3249.	3.3	44

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19	qF-SSOP: real-time optical property corrected fluorescence imaging. Biomedical Optics Express, 2017, 8, 3597.	2.9	39
20	Gadolinium- and 5-Aminolevulinic Acid-Induced Protoporphyrin IX Levels in Human Gliomas: An Ex Vivo Quantitative Study to Correlate Protoporphyrin IX Levels and Blood-Brain Barrier Breakdown. Journal of Neuropathology and Experimental Neurology, 2012, 71, 806-813.	1.7	38
21	Focused ultrasound in neurosurgery: a historical perspective. Neurosurgical Focus, 2018, 44, E2.	2.3	38
22	Spatial Multiplexing of Fluorescent Reporters for Imaging Signaling Network Dynamics. Cell, 2020, 183, 1682-1698.e24.	28.9	38
23	5-aminolevulinic acid induced protoporphyrin IX (ALA-PpIX) fluorescence guidance in meningioma surgery. Journal of Neuro-Oncology, 2019, 141, 555-565.	2.9	31
24	Confocal Microscopy for the Histological Fluorescence Pattern of a Recurrent Atypical Meningioma: Case Report. Neurosurgery, 2011, 68, E1768-E1773.	1.1	28
25	Design and Rationale for First-in-Human Phase 1 Immunovirotherapy Clinical Trial of Oncolytic HSV G207 to Treat Malignant Pediatric Cerebellar Brain Tumors. Human Gene Therapy, 2020, 31, 1132-1139.	2.7	24
26	Macroscopic optical imaging technique for wide-field estimation of fluorescence depth in optically turbid media for application in brain tumor surgical guidance. Journal of Biomedical Optics, 2015, 20, 026002.	2.6	22
27	Quantitative Wide-Field Imaging Techniques for Fluorescence Guided Neurosurgery. Frontiers in Surgery, 2019, 6, 31.	1.4	21
28	Improved sensitivity to fluorescence for cancer detection in wide-field image-guided neurosurgery. Biomedical Optics Express, 2015, 6, 5063.	2.9	19
29	A novel in situ multiplex immunofluorescence panel for the assessment of tumor immunopathology and response to virotherapy in pediatric glioblastoma reveals a role for checkpoint protein inhibition. OncoImmunology, 2019, 8, e1678921.	4.6	18
30	Characterizing the heterogeneity in 5-aminolevulinic acidâ€“induced fluorescence in glioblastoma. Journal of Neurosurgery, 2020, 132, 1706-1714.	1.6	15
31	Therapeutic cancer vaccines for pediatric malignancies: advances, challenges, and emerging technologies. Neuro-Oncology Advances, 2021, 3, vdab027.	0.7	13
32	In vivo Fluorescence Detection in Surgery: A Review of Principles, Methods, and Clinical Applications. Current Medical Imaging, 2012, 8, 211-232.	0.8	10
33	Target receptor identification and subsequent treatment of resected brain tumors with encapsulated and engineered allogeneic stem cells. Nature Communications, 2022, 13, 2810.	12.8	10
34	Standard clinical approaches and emerging modalities for glioblastoma imaging. Neuro-Oncology Advances, 2022, 4, .	0.7	7
35	Cause-specific mortality among neurosurgeons. Journal of Neurosurgery, 2010, 113, 474-478.	1.6	5
36	Correction to â€œReview of Neurosurgical Fluorescence Imaging Methodologiesâ€• IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1847-1847.	2.9	4

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37	Commentary: Extent of Resection and Residual Tumor Thresholds for Postoperative Total Seizure Freedom in Epileptic Adult Patients Harboring a Supratentorial Diffuse Low-Grade Glioma. Neurosurgery, 2019, 85, E341-E342.	1.1	0