

# Maximilien Vermandel

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

1,131  
citations

361296

20  
h-index

434063

31  
g-index

75  
all docs

75  
docs citations

75  
times ranked

1672  
citing authors

#	ARTICLE	IF	CITATIONS
1	Standardized intraoperative 5-ALA photodynamic therapy for newly diagnosed glioblastoma patients: a preliminary analysis of the INDYGO clinical trial. <i>Journal of Neuro-Oncology</i> , 2021, 152, 501-514.	1.4	47
2	Stereotactic Radiosurgery: From a Prescribed Physical Radiation Dose Toward Biologically Effective Dose. <i>Mayo Clinic Proceedings</i> , 2021, 96, 1114-1116.	1.4	5
3	Biologically effective dose and prediction of obliteration of unruptured arteriovenous malformations treated by upfront Gamma Knife radiosurgery: a series of 149 consecutive cases. <i>Journal of Neurosurgery</i> , 2021, 134, 1901-1911.	0.9	20
4	A Warp-Knitted Light-Emitting Fabric-Based Device for In Vitro Photodynamic Therapy: Description, Characterization, and Application on Human Cancer Cell Lines. <i>Cancers</i> , 2021, 13, 4109.	1.7	2
5	Management of Patients with Renal Failure Undergoing Dialysis During <sup>131</sup> I Therapy for Thyroid Cancer. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1161-1170.	2.8	7
6	Multimodal imaging in radiotherapy: Focus on adaptive therapy and quality control. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2020, 24, 411-417.	0.6	4
7	INtraoperative photoDYNAMIC Therapy for GliOblastomas (INDYGO): Study Protocol for a Phase I Clinical Trial. <i>Neurosurgery</i> , 2019, 84, E414-E419.	0.6	64
8	Superficial temporal artery-middle cerebral artery anastomosis patency correlates with cerebrovascular reserve in adult moyamoya syndrome patients. <i>Neurochirurgie</i> , 2019, 65, 146-151.	0.6	8
9	Protective STA-MCA bypass to prevent brain ischemia during high-flow bypass surgery: case series of 10 patients. <i>Acta Neurochirurgica</i> , 2019, 161, 1207-1214.	0.9	10
10	Parallelized Monte-Carlo dosimetry using graphics processing units to model cylindrical diffusers used in photodynamic therapy: From implementation to validation. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019, 26, 351-360.	1.3	7
11	Comparison of different treatment schemes in 5-ALA interstitial photodynamic therapy for high-grade glioma in a preclinical model: An MRI study. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019, 25, 166-176.	1.3	14
12	The role of medical imaging in the context of photodynamic therapy. , 2019, , .		0
13	MRI assessment of treatment delivery for interstitial photodynamic therapy of high-grade glioma in a preclinical model. <i>Lasers in Surgery and Medicine</i> , 2018, 50, 460-468.	1.1	10
14	Photodynamic therapy for glioblastoma: A preliminary approach for practical application of light propagation models. <i>Lasers in Surgery and Medicine</i> , 2018, 50, 523-534.	1.1	10
15	Using X-rays in photodynamic therapy: an overview. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1612-1650.	1.6	92
16	Phase II Study of a Radiotherapy Total Dose Increase in Hypoxic Lesions Identified by <sup>18</sup> F-Misonidazole PET/CT in Patients with Non-Small Cell Lung Carcinoma (RTEP5 Study). <i>Journal of Nuclear Medicine</i> , 2017, 58, 1045-1053.	2.8	70
17	Nuclear medicine for photodynamic therapy in cancer: Planning, monitoring and nuclear PDT. <i>Photodiagnosis and Photodynamic Therapy</i> , 2017, 18, 236-243.	1.3	25
18	Interstitial photodynamic therapy and glioblastoma: Light fractionation in a preclinical model. <i>Lasers in Surgery and Medicine</i> , 2017, 49, 506-515.	1.1	14

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19	A novel device for intraoperative photodynamic therapy dedicated to glioblastoma treatment. <i>Future Oncology</i> , 2017, 13, 2441-2454.	1.1	20
20	5-ALA Photodynamic Therapy in Neurosurgery, Towards the Design of a Treatment Planning System: A Proof of Concept. <i>Irbm</i> , 2017, 38, 34-41.	3.7	7
21	Quality Control of Nuclear Medicine Instrumentation and Protocol Standardisation. , 2017, , .		0
22	Interactive contour delineation of organs at risk in radiotherapy: Clinical evaluation on NSCLC patients. <i>Medical Physics</i> , 2016, 43, 2569-2580.	1.6	22
23	Stacking denoising auto-encoders in a deep network to segment the brainstem on MRI in brain cancer patients: A clinical study. <i>Computerized Medical Imaging and Graphics</i> , 2016, 52, 8-18.	3.5	40
24	On Image Segmentation Methods Applied to Glioblastoma: State of Art and New Trends. <i>Irbm</i> , 2016, 37, 131-143.	3.7	28
25	Impact of consensus contours from multiple PET segmentation methods on the accuracy of functional volume delineation. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 43, 911-924.	3.3	35
26	Interstitial 5-ALA photodynamic therapy and glioblastoma: Preclinical model development and preliminary results. <i>Photodiagnosis and Photodynamic Therapy</i> , 2016, 13, 218-224.	1.3	32
27	Supervised machine learning-based classification scheme to segment the brainstem on MRI in multicenter brain tumor treatment context. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 43-51.	1.7	19
28	Is STAPLE algorithm confident to assess segmentation methods in PET imaging?. <i>Physics in Medicine and Biology</i> , 2015, 60, 9473-9491.	1.6	15
29	Fluorescence guided resection and glioblastoma in 2015: A review. <i>Lasers in Surgery and Medicine</i> , 2015, 47, 441-451.	1.1	31
30	Comparison of three light doses in the photodynamic treatment of actinic keratosis using mathematical modeling. <i>Journal of Biomedical Optics</i> , 2015, 20, 058001.	1.4	14
31	A new phantom to assess and correct geometrical distortions for Magnetic Resonance Imaging: Design and preliminary experiments. <i>Irbm</i> , 2015, 36, 52-60.	3.7	2
32	Interstitial photodynamic therapy and glioblastoma: light fractionation study on a preclinical model: preliminary results. , 2015, , .		0
33	Grade 2 meningioma and radiosurgery. <i>Journal of Neurosurgery</i> , 2015, 122, 1157-1162.	0.9	30
34	Segmentation algorithms of subcortical brain structures on MRI for radiotherapy and radiosurgery: A survey. <i>Irbm</i> , 2015, 36, 200-212.	3.7	36
35	Preoperative Simulation for the Planning of Microsurgical Clipping of Intracranial Aneurysms. <i>Simulation in Healthcare</i> , 2014, 9, 370-376.	0.7	11
36	Experimental use of photodynamic therapy in high grade gliomas: A review focused on 5-aminolevulinic acid. <i>Photodiagnosis and Photodynamic Therapy</i> , 2014, 11, 319-330.	1.3	61

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37	Three-dimensional skeletonization and symbolic description in vascular imaging: preliminary results. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 233-246.	1.7	6
38	Recent advances in cerebrovascular simulation and neuronavigation for the optimization of intracranial aneurysm clipping. Computer Aided Surgery, 2012, 17, 47-55.	1.8	21
39	Evaluation of PET volume segmentation methods. Nuclear Medicine Communications, 2012, 33, 34-42.	0.5	26
40	MedataWeb: A shared platform for multimodality medical images and Atlases. Irbm, 2012, 33, 223-226.	3.7	5
41	Nouvelle méthode de segmentation des volumes d'intérêt en TEP: utilisation de la théorie des possibilités. Irbm, 2011, 32, 351-362.	3.7	2
42	Évaluation de méthodes automatiques de segmentation des volumes tumoraux en tomographie par émission de positons par comparaison avec des contours manuels réalisés par un groupe d'experts. Medecine Nucleaire, 2011, 35, 146-155.	0.2	2
43	A New Method for Volume Segmentation of PET Images, Based on Possibility Theory. IEEE Transactions on Medical Imaging, 2011, 30, 409-423.	5.4	41
44	Dijkstra's algorithm applied to 3D skeletonization of the brain vascular tree: Evaluation and application to symbolic. , 2010, 2010, 3081-4.		9
45	Les méthodes de seuillage en TEP: un état de l'art. Medecine Nucleaire, 2010, 34, 119-131.	0.2	9
46	Fusion d'images en médecine nucléaire: des concepts à l'application clinique. Medecine Nucleaire, 2010, 34, 431-438.	0.2	0
47	Intérêt de la TEP au 18F-FDG thérapeutique pour prédire la réponse à la radio-immunothérapie dans les lymphomes non hodgkiniens. Medecine Nucleaire, 2010, 34, 647-654.	0.2	0
48	Volume quantification by fuzzy logic modelling in freehand ultrasound imaging. Ultrasonics, 2009, 49, 646-652.	2.1	3
49	Une «Nouvelle sorte de rayonnement» à la tomodensitométrie: une histoire du scanner. Irbm, 2009, 30, 33-39.	3.7	2
50	Correction of images in an open-configuration MR imaging system for radiation therapy planning and Interventional MRI. International Journal of Computer Assisted Radiology and Surgery, 2008, 3, 283-289.	1.7	4
51	A new method based on both fuzzy set and possibility theories for tumor volume segmentation on PET images. , 2008, 2008, 3122-5.		7
52	An easy-to-use phantom and protocol for weekly PET quality assessment: A multicenter study. Medical Physics, 2008, 35, 3922-3934.	1.6	5
53	Combining MIP images and fuzzy set principles for vessels segmentation: application to TOF MRA and CE-MRA. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6256-9.	0.5	3
54	3D automatic segmentation and reconstruction of prostate on MR images. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5259-62.	0.5	11

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55	DÃ©termination par logique floue des volumes tumoraux en TEPÃ: application au suivi de la radio-immunothÃ©rapie des lymphomes. <i>Medecine Nucleaire</i> , 2007, 31, 656-664.	0.2	5
56	Ultrasound image guided patient setup for prostate cancer conformal radiotherapy. <i>Pattern Recognition Letters</i> , 2007, 28, 1808-1817.	2.6	14
57	From MIP image to MRA segmentation using fuzzy set theory. <i>Computerized Medical Imaging and Graphics</i> , 2007, 31, 128-140.	3.5	21
58	Intrinsic 2D/3D registration based on a hybrid approach: use in the radiosurgical imaging process. <i>Cellular and Molecular Biology</i> , 2007, 52, 44-53.	0.3	5
59	Nouveaux tests Z-Score etÃ©tudent fondÃ©s surÃ©unÃ©adÃ©calage temporeldesÃ©donnÃ©es d'IRM fonctionnelle d'activation cÃ©rÃ©brale: rÃ©sultats prÃ©liminaires. <i>IRBM News</i> , 2006, 27, 243-249.	0.1	0
60	Segmentation of abdominal ultrasound images of the prostate using a priori information and an adapted noise filter. <i>Computerized Medical Imaging and Graphics</i> , 2005, 29, 43-51.	3.5	61
61	3D rotational angiography: use of propeller rotation for the evaluation of intracranial aneurysms. <i>American Journal of Neuroradiology</i> , 2005, 26, 163-5.	1.2	22
62	Registration, Matching, and Data Fusion in 2D/3D Medical Imaging: Application to DSA and MRA. <i>Lecture Notes in Computer Science</i> , 2003, , 778-785.	1.0	12
63	ContrÃ©le de qualitÃ© en IRM : motivations, mÃ©thodes et pratiques. <i>IRBM News</i> , 2002, 23, 276-284.	0.1	2