Walter Kucharczyk

List of Publications by Year
in descending order

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97 papers	3,395 citations	126907 33 h-index	155660 55 g-index
99 all docs	99 docs citations	99 times ranked	3543 citing authors

#	Article	IF	Citations
1	Untapped Neuroimaging Tools for Neuro-Oncology: Connectomics and Spatial Transcriptomics. Cancers, 2022, 14, 464.	3.7	9
2	Leukoencephalopathy with brain calcifications and cysts (Labrune syndrome) case report: diagnosis and management of a rare neurological disease. BMC Neurology, 2022, 22, 10.	1.8	6
3	Letter: Unforeseen Hurdles Associated With Magnetic Resonance Imaging in Patients With Deep Brain Stimulation Devices. Neurosurgery, 2022, Publish Ahead of Print, .	1.1	1
4	Evaluating an Image-Guided Operating Room with Cone Beam CT for Skull Base Surgery. Journal of Neurological Surgery, Part B: Skull Base, 2021, 82, e306-e314.	0.8	4
5	Ataxia and Parkinsonism in Metronidazole Neurotoxicity. Canadian Journal of Neurological Sciences, 2021, 48, 273-274.	0.5	1
6	Probabilistic Mapping of Deep Brain Stimulation: Insights from 15â€‰Years of Therapy. Annals of Neurology, 2021, 89, 426-443.	5.3	68
7	Sign-specific stimulation â€˜hotâ€™ and â€˜coldâ€™ spots in Parkinsonâ€™s disease validated with machine learning. Brain Communications, 2021, 3, fcab027.	3.3	20
8	MRI-guided Focused Ultrasound Ablation for Localized Intermediate-Risk Prostate Cancer: Early Results of a Phase II Trial. Radiology, 2021, 298, 695-703.	7.3	33
9	Mapping autonomic, mood and cognitive effects of hypothalamic region deep brain stimulation. Brain, 2021, 144, 2837-2851.	7.6	14
10	Predicting optimal deep brain stimulation parameters for Parkinsonâ€™s disease using functional MRI and machine learning. Nature Communications, 2021, 12, 3043.	12.8	130
11	Impact of Mesial Temporal Lobe Resection on Brain Structure in Medically Refractory Epilepsy. World Neurosurgery, 2021, 152, e652-e665.	1.3	3
12	Focused Ultrasound Thalamotomy Sensory Side Effects Follow the Thalamic Structural Homunculus. Neurology: Clinical Practice, 2021, 11, e497-e503.	1.6	0
13	Focused Ultrasound Thalamotomy Sensory Side Effects Follow the Thalamic Structural Homunculus. Neurology: Clinical Practice, 2021, 11, e497-e503.	1.6	1
14	The relevance of skull density ratio in selecting candidates for transcranial MR-guided focused ultrasound. Journal of Neurosurgery, 2020, 132, 1785-1791.	1.6	62
15	Dynamic nature of intracranial venous sinuses in idiopathic intracranial hypertension. Interventional Neuroradiology, 2020, 26, 118-120.	1.1	7
16	Quantitative Anatomical Comparison of Anterior, Anterolateral and Lateral, Microsurgical and Endoscopic Approaches to the Middle Cranial Fossa. World Neurosurgery, 2020, 134, e682-e730.	1.3	17
17	Quantitative anatomical comparison of transnasal and transcranial approaches to the clivus. Acta Neurochirurgica, 2020, 162, 649-660.	1.7	14
18	Multimodal MRI for MRgFUS in essential tremor: post-treatment radiological markers of clinical outcome. Journal of Neurology, Neurosurgery and Psychiatry, 2020, 91, 921-927.	1.9	34

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19	Improving Safety of MRI in Patients with Deep Brain Stimulation Devices. Radiology, 2020, 296, 250-262.	7.3	40
20	Magnetic Resonance-Guided Focused Ultrasound Thalamotomy to Treat Essential Tremor in Nonagenarians. Stereotactic and Functional Neurosurgery, 2020, 98, 182-186.	1.5	14
21	3-Tesla MRI of deep brain stimulation patients: safety assessment of coils and pulse sequences. Journal of Neurosurgery, 2020, 132, 586-594.	1.6	39
22	Safety assessment of spine MRI in deep brain stimulation patients. Journal of Neurosurgery: Spine, 2020, 32, 973-983.	1.7	6
23	Imaging alone versus microelectrode recordingâ€“guided targeting of the STN in patients with Parkinsonâ€™s disease. Journal of Neurosurgery, 2019, 130, 1847-1852.	1.6	41
24	Functional MRI Safety and Artifacts during Deep Brain Stimulation: Experience in 102 Patients. Radiology, 2019, 293, 174-183.	7.3	51
25	Pituitary Apoplexy: Results of Surgical and Conservative Management Clinical Series andÂReview of the Literature. World Neurosurgery, 2019, 130, e988-e999.	1.3	46
26	The imageâ€guided operating roomâ€”Utility and impact on surgeon's performance in the head and neck surgery. Head and Neck, 2019, 41, 3372-3382.	2.0	12
27	Network Basis of Seizures Induced by Deep Brain Stimulation: Literature Review and Connectivity Analysis. World Neurosurgery, 2019, 132, 314-320.	1.3	23
28	Neuroimaging Technological Advancements for Targeting in Functional Neurosurgery. Current Neurology and Neuroscience Reports, 2019, 19, 42.	4.2	29
29	On the (Nonâ€)equivalency of monopolar and bipolar settings for deep brain stimulation fMRI studies of Parkinson's disease patients. Journal of Magnetic Resonance Imaging, 2019, 49, 1736-1749.	3.4	40
30	Endonasal and Transoral Approaches to the Craniovertebral Junction: A Quantitative Anatomical Study. Acta Neurochirurgica Supplementum, 2019, 125, 37-44.	1.0	9
31	Magnetic Resonance Imagingâ€“Guided Focused Ultrasound Thalamotomy in Parkinson Tremor: Reoperation After Benefit Decay. Movement Disorders, 2018, 33, 848-849.	3.9	34
32	Magnetic resonance guided focused high frequency ultrasound ablation for focal therapy in prostate cancer â€“ phase 1 trial. European Radiology, 2018, 28, 4281-4287.	4.5	30
33	Focused ultrasound thalamotomy location determines clinical benefits in patients with essential tremor. Brain, 2018, 141, 3405-3414.	7.6	129
34	Subthalamic Nucleus Visualization on Routine Clinical Preoperative MRI Scans: A Retrospective Study of Clinical and Image Characteristics Predicting Its Visualization. Stereotactic and Functional Neurosurgery, 2018, 96, 120-126.	1.5	12
35	Pituitary acromegaly: not one disease. Endocrine-Related Cancer, 2017, 24, C1-C4.	3.1	37
36	Quantification of Working Volumes, Exposure, and Target-Specific Maneuverability of the Pterional Craniotomy and Its Minimally Invasive Variants. World Neurosurgery, 2017, 101, 710-717.e2.	1.3	18

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37	Two-Dimensional High Definition Versus Three-Dimensional Endoscopy in Endonasal Skull Base Surgery: A Comparative Preclinical Study. World Neurosurgery, 2017, 105, 223-231.	1.3	24
38	3-Tesla MRI in patients with fully implanted deep brain stimulation devices: a preliminary study in 10 patients. Journal of Neurosurgery, 2017, 127, 892-898.	1.6	30
39	MRI-guided focused ultrasound thalamotomy in non-ET tremor syndromes. Neurology, 2017, 89, 771-775.	1.1	79
40	Gadobutrol in Renally Impaired Patients. Investigative Radiology, 2017, 52, 55-60.	6.2	41
41	Quantitative comparison of cranial approaches in the anatomy laboratory: A neuronavigation based research method. World Journal of Methodology, 2017, 7, 139-147.	3.5	15
42	Quantification and Comparison of Neurosurgical Approaches in the Anatomy Laboratory: Description and Validation of a Novel, Navigation-based Method. Journal of Neurological Surgery, Part B: Skull Base, 2017, 78, S1-S156.	0.8	0
43	Susceptibility-weighted Imaging in Neurovascular Disease. Topics in Magnetic Resonance Imaging, 2016, 25, 63-71.	1.2	16
44	Allergic-like Reactions to the MR Imaging Contrast Agent Gadobutrol: A Prospective Study of 32 991 Consecutive Injections. Radiology, 2016, 281, 72-77.	7.3	33
45	Prominent Inferior Intercavernous Sinus on Sagittal T1-Weighted Images: A Sign of Intracranial Hypotension. American Journal of Roentgenology, 2016, 206, 817-822.	2.2	17
46	Silent subtype 3 pituitary adenomas are not always silent and represent poorly differentiated monomorphous plurihormonal Pit-1 lineage adenomas. Modern Pathology, 2016, 29, 131-142.	5.5	114
47	Optic nerve hemangioblastomas â€“ a review of visual outcomes. Turkish Neurosurgery, 2016, 27, 827-831.	0.2	7
48	Spontaneous resolution of colloid cyst of the third ventricle: Implications for management. Journal of Innovative Optical Health Sciences, 2016, 12, 203-206.	1.0	5
49	Localized Intraoperative Virtual Endoscopy (LIVE) for Surgical Guidance in 16 Skull Base Patients. Otolaryngology - Head and Neck Surgery, 2015, 152, 165-171.	1.9	16
50	Null Cell Adenomas of the Pituitary Gland: an Institutional Review of Their Clinical Imaging and Behavioral Characteristics. Endocrine Pathology, 2015, 26, 63-70.	9.0	59
51	Safety of Magnetic Resonance Contrast Media. Topics in Magnetic Resonance Imaging, 2015, 24, 57-65.	1.2	22
52	Real-Time MRI-Guided Focused Ultrasound for Focal Therapy of Locally Confined Low-Risk Prostate Cancer: Feasibility and Preliminary Outcomes. American Journal of Roentgenology, 2015, 205, W177-W184.	2.2	44
53	Pure endoscopic expanded endonasal approach for olfactory groove and tuberculum sellae meningiomas. Journal of Clinical Neuroscience, 2014, 21, 927-933.	1.5	41
54	Growth Patterns of Pituitary Adenomas and Histopathological Correlates. Journal of Clinical Endocrinology and Metabolism, 2014, 99, 1330-1338.	3.6	40

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55	Spindle cell oncocytoma of the adenohypophysis: a case report illustrating its natural history with 8-year observation and a review of the literature. Clinical Imaging, 2014, 38, 499-504.	1.5	30
56	High-Resolution Angioscopic Imaging During Endovascular Neurosurgery. Neurosurgery, 2014, 75, 171-180.	1.1	23
57	Virtual surgical planning in endoscopic skull base surgery. Laryngoscope, 2013, 123, 2935-2939.	2.0	19
58	Optimizing contrast agent concentration and spoiled gradient echo pulse sequence parameters for catheter visualization in MRâ€guided interventional procedures: An analytic solution. Magnetic Resonance in Medicine, 2013, 70, 333-340.	3.0	6
59	Primary Intracranial Fibrosarcoma Presenting with Leptomeningeal Enhancement. Neurographics, 2012, 2, 60-63.	0.1	0
60	Imaging of prion diseases. Journal of Magnetic Resonance Imaging, 2012, 35, 998-1012.	3.4	28
61	Physics of MRI: A primer. Journal of Magnetic Resonance Imaging, 2012, 35, spcone-spcone.	3.4	0
62	Physics of MRI: A primer. Journal of Magnetic Resonance Imaging, 2012, 35, 1038-1054.	3.4	141
63	Focal magnetic resonance guided focused ultrasound for prostate cancer: Initial North American experience. Canadian Urological Association Journal, 2012, 6, E283-6.	0.6	14
64	Nephrogenic Systemic Fibrosis. JACC: Cardiovascular Imaging, 2011, 4, 1206-1216.	5.3	96
65	Magnetic Resonance Imaging Demonstration of a Single Lesion Causing Wallerian Degeneration in Ascending and Descending Tracts in the Spinal Cord. Journal of Computer Assisted Tomography, 2010, 34, 251-253.	0.9	6
66	Real-Time Magnetic Resonance Imagingâ€“Guided Focal Laser Therapy in Patients with Low-Risk Prostate Cancer. European Urology, 2010, 58, 173-177.	1.9	131
67	Robot-assisted MRI-guided prostatic interventions. Robotica, 2010, 28, 215-234.	1.9	37
68	Prion Infections of the Brain. Neuroimaging Clinics of North America, 2008, 18, 183-191.	1.0	10
69	Robotic System for Closed-Bore MRI-Guided Prostatic Interventions. IEEE/ASME Transactions on Mechatronics, 2008, 13, 374-379.	5.8	61
70	Palliative Treatment of Painful Bone Metastases with MR Imagingâ€“guided Focused Ultrasound. Radiology, 2008, 249, 355-363.	7.3	199
71	A New Hydraulically/Pneumatically Actuated MR-Compatible Robot for MRI-Guided Neurosurgery. , 2008, , .		7
72	Control Paradigm and Design for a Novel MR-Compatible Tele-Robotic System for MRI-Guided Neurosurgery. , 2007, , .		0

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73	Magneticallyâ€assisted remote control (MARC) steering of endovascular catheters for interventional MRI: A model for deflection and design implications. Medical Physics, 2007, 34, 3135-3142.	3.0	60
74	A MR-compatible tele-robotic system for MRI-guided intervention: system overview and mechanical design. , 2007, , .		2
75	Clinical Predictors of Advanced Sellar Masses. Endocrine Practice, 2007, 13, 609-614.	2.1	3
76	Tranexamic acid and early saphenous vein graft patency in conventional coronary artery bypass graft surgery: A prospective randomized controlled clinical trial. Journal of Thoracic and Cardiovascular Surgery, 2005, 130, 309-314.	0.8	41
77	Interstitial Doppler optical coherence tomography. Optics Letters, 2005, 30, 1791.	3.3	84
78	Image Interpretation Session: 2002. Radiographics, 2003, 23, 88-88.	3.3	0
79	Image Interpretation Session. Radiographics, 2002, 22, 1291-1303.	3.3	1
80	A New Frontier: Magnetic Resonance Imaging-Operating Room. Journal of Neurosurgical Anesthesiology, 2000, 12, 141-148.	1.2	19
81	Magnetic resonance thermometry for predicting thermal damage: An application of interstitial laser coagulation in an in vivo canine prostate model. Magnetic Resonance in Medicine, 2000, 44, 873-883.	3.0	127
82	Prostate Cancer: MR Imaging and Thermometry during Microwave Thermal Ablation-Initial Experience. Radiology, 2000, 214, 290-297.	7.3	141
83	Brain Tumor Surgery with the Toronto Open Magnetic Resonance Imaging System: Preliminary Results for 36 Patients and Analysis of Advantages, Disadvantages, and Future Prospects. Neurosurgery, 2000, 46, 900-909.	1.1	63
84	Invited. MR systems for image-guided therapy. Journal of Magnetic Resonance Imaging, 1998, 8, 19-25.	3.4	83
85	MRI monitoring of interstitial microwave-induced heating and thermal lesions in rabbit brain in vivo. Journal of Magnetic Resonance Imaging, 1998, 8, 128-135.	3.4	38
86	Dimensions of the Optic Nerves, Chiasm, and Tracts. Journal of Computer Assisted Tomography, 1993, 17, 688-690.	0.9	54
87	Hyponatremic encephalopathy: Is central pontine myelinolysis a component?. American Journal of Medicine, 1992, 92, 513-522.	1.5	85
88	SMRI 1992: Scientific program. Journal of Magnetic Resonance Imaging, 1992, 2, 21-22.	3.4	0
89	Clival Chordoma Presenting with Acute Brain Stem Hemorrhage. Canadian Journal of Neurological Sciences, 1991, 18, 515-518.	0.5	16
90	MRI news and calendar. Journal of Magnetic Resonance Imaging, 1991, 1, 619-620.	3.4	0

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91	Design and evaluation of a pneumatic pulse monitor for use during magnetic resonance imaging. Journal of Clinical Monitoring and Computing, 1991, 7, 186-188.	0.7	6
92	Intervertebral disc embolization resulting in spinal cord infarction. Journal of Neurosurgery, 1989, 71, 938-941.	1.6	24
93	Hypothalmic-pituitary region: magnetic resonance imaging. Bailliere's Clinical Endocrinology and Metabolism, 1989, 3, 73-87.	1.0	5
94	Magnetic Resonance Imaging of the Nasal Airways. American Journal of Rhinology & Allergy, 1989, 3, 63-67.	2.2	19
95	Spontaneous Dissection of the Vertebral Artery. Journal of Computer Assisted Tomography, 1989, 13, 326-329.	0.9	32
96	Drs Colombo and colleagues respond. Radiology, 1988, 168, 282-283.	7.3	4
97	Cardiac Tamponade as a Complication of Thin-needle Aspiration Lung Biopsy. Chest, 1982, 82, 120-121.	0.8	41