

Walter Kucharczyk

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8016863/publications.pdf>

Version: 2024-02-01

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	Palliative Treatment of Painful Bone Metastases with MR Imaging-guided Focused Ultrasound. <i>Radiology</i> , 2008, 249, 355-363.	7.3	199
2	Prostate Cancer: MR Imaging and Thermometry during Microwave Thermal Ablation-Initial Experience. <i>Radiology</i> , 2000, 214, 290-297.	7.3	141
3	Physics of MRI: A primer. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 1038-1054.	3.4	141
4	Real-Time Magnetic Resonance Imaging-Guided Focal Laser Therapy in Patients with Low-Risk Prostate Cancer. <i>European Urology</i> , 2010, 58, 173-177.	1.9	131
5	Predicting optimal deep brain stimulation parameters for Parkinson's disease using functional MRI and machine learning. <i>Nature Communications</i> , 2021, 12, 3043.	12.8	130
6	Focused ultrasound thalamotomy location determines clinical benefits in patients with essential tremor. <i>Brain</i> , 2018, 141, 3405-3414.	7.6	129
7	Magnetic resonance thermometry for predicting thermal damage: An application of interstitial laser coagulation in an in vivo canine prostate model. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 873-883.	3.0	127
8	Silent subtype 3 pituitary adenomas are not always silent and represent poorly differentiated monomorphous plurihormonal Pit-1 lineage adenomas. <i>Modern Pathology</i> , 2016, 29, 131-142.	5.5	114
9	Nephrogenic Systemic Fibrosis. <i>JACC: Cardiovascular Imaging</i> , 2011, 4, 1206-1216.	5.3	96
10	Hyponatremic encephalopathy: Is central pontine myelinolysis a component?. <i>American Journal of Medicine</i> , 1992, 92, 513-522.	1.5	85
11	Interstitial Doppler optical coherence tomography. <i>Optics Letters</i> , 2005, 30, 1791.	3.3	84
12	Invited. MR systems for image-guided therapy. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 19-25.	3.4	83
13	MRI-guided focused ultrasound thalamotomy in non-ET tremor syndromes. <i>Neurology</i> , 2017, 89, 771-775.	1.1	79
14	Probabilistic Mapping of Deep Brain Stimulation: Insights from 15 Years of Therapy. <i>Annals of Neurology</i> , 2021, 89, 426-443.	5.3	68
15	Brain Tumor Surgery with the Toronto Open Magnetic Resonance Imaging System: Preliminary Results for 36 Patients and Analysis of Advantages, Disadvantages, and Future Prospects. <i>Neurosurgery</i> , 2000, 46, 900-909.	1.1	63
16	The relevance of skull density ratio in selecting candidates for transcranial MR-guided focused ultrasound. <i>Journal of Neurosurgery</i> , 2020, 132, 1785-1791.	1.6	62
17	Robotic System for Closed-Bore MRI-Guided Prostatic Interventions. <i>IEEE/ASME Transactions on Mechatronics</i> , 2008, 13, 374-379.	5.8	61
18	Magnetically-assisted remote control (MARC) steering of endovascular catheters for interventional MRI: A model for deflection and design implications. <i>Medical Physics</i> , 2007, 34, 3135-3142.	3.0	60

#	ARTICLE	IF	CITATIONS
19	Null Cell Adenomas of the Pituitary Gland: an Institutional Review of Their Clinical Imaging and Behavioral Characteristics. <i>Endocrine Pathology</i> , 2015, 26, 63-70.	9.0	59
20	Dimensions of the Optic Nerves, Chiasm, and Tracts. <i>Journal of Computer Assisted Tomography</i> , 1993, 17, 688-690.	0.9	54
21	Functional MRI Safety and Artifacts during Deep Brain Stimulation: Experience in 102 Patients. <i>Radiology</i> , 2019, 293, 174-183.	7.3	51
22	Pituitary Apoplexy: Results of Surgical and Conservative Management Clinical Series and Review of the Literature. <i>World Neurosurgery</i> , 2019, 130, e988-e999.	1.3	46
23	Real-Time MRI-Guided Focused Ultrasound for Focal Therapy of Locally Confined Low-Risk Prostate Cancer: Feasibility and Preliminary Outcomes. <i>American Journal of Roentgenology</i> , 2015, 205, W177-W184.	2.2	44
24	Cardiac Tamponade as a Complication of Thin-needle Aspiration Lung Biopsy. <i>Chest</i> , 1982, 82, 120-121.	0.8	41
25	Tranexamic acid and early saphenous vein graft patency in conventional coronary artery bypass graft surgery: A prospective randomized controlled clinical trial. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2005, 130, 309-314.	0.8	41
26	Pure endoscopic expanded endonasal approach for olfactory groove and tuberculum sellae meningiomas. <i>Journal of Clinical Neuroscience</i> , 2014, 21, 927-933.	1.5	41
27	Gadobutrol in Renally Impaired Patients. <i>Investigative Radiology</i> , 2017, 52, 55-60.	6.2	41
28	Imaging alone versus microelectrode recording-guided targeting of the STN in patients with Parkinson's disease. <i>Journal of Neurosurgery</i> , 2019, 130, 1847-1852.	1.6	41
29	Growth Patterns of Pituitary Adenomas and Histopathological Correlates. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, 1330-1338.	3.6	40
30	On the (Non-)equivalency of monopolar and bipolar settings for deep brain stimulation fMRI studies of Parkinson's disease patients. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1736-1749.	3.4	40
31	Improving Safety of MRI in Patients with Deep Brain Stimulation Devices. <i>Radiology</i> , 2020, 296, 250-262.	7.3	40
32	3-Tesla MRI of deep brain stimulation patients: safety assessment of coils and pulse sequences. <i>Journal of Neurosurgery</i> , 2020, 132, 586-594.	1.6	39
33	MRI monitoring of interstitial microwave-induced heating and thermal lesions in rabbit brain in vivo. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 128-135.	3.4	38
34	Robot-assisted MRI-guided prostatic interventions. <i>Robotica</i> , 2010, 28, 215-234.	1.9	37
35	Pituitary acromegaly: not one disease. <i>Endocrine-Related Cancer</i> , 2017, 24, C1-C4.	3.1	37
36	Magnetic Resonance Imaging-Guided Focused Ultrasound Thalamotomy in Parkinson Tremor: Reoperation After Benefit Decay. <i>Movement Disorders</i> , 2018, 33, 848-849.	3.9	34

#	ARTICLE	IF	CITATIONS
37	Multimodal MRI for MRgFUS in essential tremor: post-treatment radiological markers of clinical outcome. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2020, 91, 921-927.	1.9	34
38	Allergic-like Reactions to the MR Imaging Contrast Agent Gadobutrol: A Prospective Study of 32 991 Consecutive Injections. <i>Radiology</i> , 2016, 281, 72-77.	7.3	33
39	MRI-guided Focused Ultrasound Ablation for Localized Intermediate-Risk Prostate Cancer: Early Results of a Phase II Trial. <i>Radiology</i> , 2021, 298, 695-703.	7.3	33
40	Spontaneous Dissection of the Vertebral Artery. <i>Journal of Computer Assisted Tomography</i> , 1989, 13, 326-329.	0.9	32
41	Spindle cell oncocytoma of the adenohypophysis: a case report illustrating its natural history with 8-year observation and a review of the literature. <i>Clinical Imaging</i> , 2014, 38, 499-504.	1.5	30
42	3-Tesla MRI in patients with fully implanted deep brain stimulation devices: a preliminary study in 10 patients. <i>Journal of Neurosurgery</i> , 2017, 127, 892-898.	1.6	30
43	Magnetic resonance guided focused high frequency ultrasound ablation for focal therapy in prostate cancer – phase 1 trial. <i>European Radiology</i> , 2018, 28, 4281-4287.	4.5	30
44	Neuroimaging Technological Advancements for Targeting in Functional Neurosurgery. <i>Current Neurology and Neuroscience Reports</i> , 2019, 19, 42.	4.2	29
45	Imaging of prion diseases. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 998-1012.	3.4	28
46	Intervertebral disc embolization resulting in spinal cord infarction. <i>Journal of Neurosurgery</i> , 1989, 71, 938-941.	1.6	24
47	Two-Dimensional High Definition Versus Three-Dimensional Endoscopy in Endonasal Skull Base Surgery: A Comparative Preclinical Study. <i>World Neurosurgery</i> , 2017, 105, 223-231.	1.3	24
48	High-Resolution Angioscopic Imaging During Endovascular Neurosurgery. <i>Neurosurgery</i> , 2014, 75, 171-180.	1.1	23
49	Network Basis of Seizures Induced by Deep Brain Stimulation: Literature Review and Connectivity Analysis. <i>World Neurosurgery</i> , 2019, 132, 314-320.	1.3	23
50	Safety of Magnetic Resonance Contrast Media. <i>Topics in Magnetic Resonance Imaging</i> , 2015, 24, 57-65.	1.2	22
51	Sign-specific stimulation “hot” and “cold” spots in Parkinson’s disease validated with machine learning. <i>Brain Communications</i> , 2021, 3, fcab027.	3.3	20
52	Magnetic Resonance Imaging of the Nasal Airways. <i>American Journal of Rhinology & Allergy</i> , 1989, 3, 63-67.	2.2	19
53	A New Frontier: Magnetic Resonance Imaging-Operating Room. <i>Journal of Neurosurgical Anesthesiology</i> , 2000, 12, 141-148.	1.2	19
54	Virtual surgical planning in endoscopic skull base surgery. <i>Laryngoscope</i> , 2013, 123, 2935-2939.	2.0	19

#	ARTICLE	IF	CITATIONS
55	Quantification of Working Volumes, Exposure, and Target-Specific Maneuverability of the Pterional Craniotomy and Its Minimally Invasive Variants. <i>World Neurosurgery</i> , 2017, 101, 710-717.e2.	1.3	18
56	Prominent Inferior Intercavernous Sinus on Sagittal T1-Weighted Images: A Sign of Intracranial Hypotension. <i>American Journal of Roentgenology</i> , 2016, 206, 817-822.	2.2	17
57	Quantitative Anatomical Comparison of Anterior, Anterolateral and Lateral, Microsurgical and Endoscopic Approaches to the Middle Cranial Fossa. <i>World Neurosurgery</i> , 2020, 134, e682-e730.	1.3	17
58	Clival Chordoma Presenting with Acute Brain Stem Hemorrhage. <i>Canadian Journal of Neurological Sciences</i> , 1991, 18, 515-518.	0.5	16
59	Localized Intraoperative Virtual Endoscopy (LIVE) for Surgical Guidance in 16 Skull Base Patients. <i>Otolaryngology - Head and Neck Surgery</i> , 2015, 152, 165-171.	1.9	16
60	Susceptibility-weighted Imaging in Neurovascular Disease. <i>Topics in Magnetic Resonance Imaging</i> , 2016, 25, 63-71.	1.2	16
61	Quantitative comparison of cranial approaches in the anatomy laboratory: A neuronavigation based research method. <i>World Journal of Methodology</i> , 2017, 7, 139-147.	3.5	15
62	Quantitative anatomical comparison of transnasal and transcranial approaches to the clivus. <i>Acta Neurochirurgica</i> , 2020, 162, 649-660.	1.7	14
63	Magnetic Resonance-Guided Focused Ultrasound Thalamotomy to Treat Essential Tremor in Nonagenarians. <i>Stereotactic and Functional Neurosurgery</i> , 2020, 98, 182-186.	1.5	14
64	Mapping autonomic, mood and cognitive effects of hypothalamic region deep brain stimulation. <i>Brain</i> , 2021, 144, 2837-2851.	7.6	14
65	Focal magnetic resonance guided focused ultrasound for prostate cancer: Initial North American experience. <i>Canadian Urological Association Journal</i> , 2012, 6, E283-6.	0.6	14
66	Subthalamic Nucleus Visualization on Routine Clinical Preoperative MRI Scans: A Retrospective Study of Clinical and Image Characteristics Predicting Its Visualization. <i>Stereotactic and Functional Neurosurgery</i> , 2018, 96, 120-126.	1.5	12
67	The image-guided operating room—Utility and impact on surgeon's performance in the head and neck surgery. <i>Head and Neck</i> , 2019, 41, 3372-3382.	2.0	12
68	Prion Infections of the Brain. <i>Neuroimaging Clinics of North America</i> , 2008, 18, 183-191.	1.0	10
69	Endonasal and Transoral Approaches to the Craniovertebral Junction: A Quantitative Anatomical Study. <i>Acta Neurochirurgica Supplementum</i> , 2019, 125, 37-44.	1.0	9
70	Untapped Neuroimaging Tools for Neuro-Oncology: Connectomics and Spatial Transcriptomics. <i>Cancers</i> , 2022, 14, 464.	3.7	9
71	A New Hydraulically/Pneumatically Actuated MR-Compatible Robot for MRI-Guided Neurosurgery. , 2008, , .		7
72	Dynamic nature of intracranial venous sinuses in idiopathic intracranial hypertension. <i>Interventional Neuroradiology</i> , 2020, 26, 118-120.	1.1	7

#	ARTICLE	IF	CITATIONS
73	Optic nerve hemangioblastomas – a review of visual outcomes. Turkish Neurosurgery, 2016, 27, 827-831.	0.2	7
74	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
75	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
76	Optimizing contrast agent concentration and spoiled gradient echo pulse sequence parameters for catheter visualization in MR-guided interventional procedures: An analytic solution. Magnetic Resonance in Medicine, 2013, 70, 333-340.	3.0	6
77	Safety assessment of spine MRI in deep brain stimulation patients. Journal of Neurosurgery: Spine, 2020, 32, 973-983.	1.7	6
78	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
79	Hypothalamic-pituitary region: magnetic resonance imaging. Bailliere's Clinical Endocrinology and Metabolism, 1989, 3, 73-87.	1.0	5
80	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
81	Drs Colombo and colleagues respond. Radiology, 1988, 168, 282-283.	7.3	4
82	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
83	Clinical Predictors of Advanced Sellar Masses. Endocrine Practice, 2007, 13, 609-614.	2.1	3
84	Impact of Mesial Temporal Lobe Resection on Brain Structure in Medically Refractory Epilepsy. World Neurosurgery, 2021, 152, e652-e665.	1.3	3
85	A MR-compatible tele-robotic system for MRI-guided intervention: system overview and mechanical design. , 2007, , .		2
86	Image Interpretation Session. Radiographics, 2002, 22, 1291-1303.	3.3	1
87	Ataxia and Parkinsonism in Metronidazole Neurotoxicity. Canadian Journal of Neurological Sciences, 2021, 48, 273-274.	0.5	1
88	Focused Ultrasound Thalamotomy Sensory Side Effects Follow the Thalamic Structural Homunculus. Neurology: Clinical Practice, 2021, 11, e497-e503.	1.6	1
89	Letter: Unforeseen Hurdles Associated With Magnetic Resonance Imaging in Patients With Deep Brain Stimulation Devices. Neurosurgery, 2022, Publish Ahead of Print, .	1.1	1
90	MRI news and calendar. Journal of Magnetic Resonance Imaging, 1991, 1, 619-620.	3.4	0

#	ARTICLE	IF	CITATIONS
91	SMRI 1992: Scientific program. Journal of Magnetic Resonance Imaging, 1992, 2, 21-22.	3.4	0
92	Image Interpretation Session: 2002. Radiographics, 2003, 23, 88-88.	3.3	0
93	Control Paradigm and Design for a Novel MR-Compatible Tele-Robotic System for MRI-Guided Neurosurgery. , 2007, , .		0
94	Primary Intracranial Fibrosarcoma Presenting with Leptomeningeal Enhancement. Neurographics, 2012, 2, 60-63.	0.1	0
95	Physics of MRI: A primer. Journal of Magnetic Resonance Imaging, 2012, 35, spcone-spcone.	3.4	0
96	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
97	Focused Ultrasound Thalamotomy Sensory Side Effects Follow the Thalamic Structural Homunculus. Neurology: Clinical Practice, 2021, 11, e497-e503.	1.6	0