Pia C Sundgren

List of Publications by Year
in descending order

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123	6,074	66343	74163
papers	citations	42 h-index	75 g-index

127	127	127	7096
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Intradural spinal tumors: current classification and MRI features. Neuroradiology, 2008, 50, 301-314.	2.2	270
2	Elevated insular glutamate in fibromyalgia is associated with experimental pain. Arthritis and Rheumatism, 2009, 60, 3146-3152.	6.7	270
3	Functional Diffusion Map As an Early Imaging Biomarker for High-Grade Glioma: Correlation With Conventional Radiologic Response and Overall Survival. Journal of Clinical Oncology, 2008, 26, 3387-3394.	1.6	264
4	Pregabalin Rectifies Aberrant Brain Chemistry, Connectivity, and Functional Response in Chronic Pain Patients. Anesthesiology, 2013, 119, 1453-1464.	2.5	225
5	Quantification of microscopic diffusion anisotropy disentangles effects of orientation dispersion from microstructure: Applications in healthy volunteers and in brain tumors. NeuroImage, 2015, 104, 241-252.	4.2	216
6	Parametric Response Map As an Imaging Biomarker to Distinguish Progression From Pseudoprogression in High-Grade Glioma. Journal of Clinical Oncology, 2010, 28, 2293-2299.	1.6	202
7	Magnetic Resonance Spectroscopy. Journal of Neuro-Ophthalmology, 2005, 25, 217-226.	0.8	201
8	Differentiation Between Brain Tumor Recurrence and Radiation Injury Using MR Spectroscopy. American Journal of Roentgenology, 2005, 185, 1471-1476.	2.2	200
9	Dynamic levels of glutamate within the insula are associated with improvements in multiple pain domains in fibromyalgia. Arthritis and Rheumatism, 2008, 58, 903-907.	6.7	193
10	The parametric response map is an imaging biomarker for early cancer treatment outcome. Nature Medicine, 2009, 15, 572-576.	30.7	187
11	Neurite density imaging versus imaging of microscopic anisotropy in diffusion MRI: A model comparison using spherical tensor encoding. NeuroImage, 2017, 147, 517-531.	4.2	177
12	Reduced insular Î³â€aminobutyric acid in fibromyalgia. Arthritis and Rheumatism, 2012, 64, 579-583.	6.7	171
13	Differentiation of recurrent brain tumor versus radiation injury using diffusion tensor imaging in patients with new contrast-enhancing lesions. Magnetic Resonance Imaging, 2006, 24, 1131-1142.	1.8	169
14	The link between diffusion MRI and tumor heterogeneity: Mapping cell eccentricity and density by diffusional variance decomposition (DIVIDE). NeuroImage, 2016, 142, 522-532.	4.2	141
15	Functional Connectivity Is Associated With Altered Brain Chemistry in Women With Endometriosis-Associated Chronic Pelvic Pain. Journal of Pain, 2016, 17, 1-13.	1.4	135
16	The role of tissue microstructure and water exchange in biophysical modelling of diffusion in white matter. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 345-370.	2.0	123
17	No consistent difference in gray matter volume between individuals with fibromyalgia and age-matched healthy subjects when controlling for affective disorder. Pain, 2009, 143, 262-267.	4.2	111
18	Developing a Clinical Decision Model: MR Spectroscopy to Differentiate Between Recurrent Tumor and Radiation Change in Patients with New Contrast-Enhancing Lesions. American Journal of Roentgenology, 2009, 192, W45-W52.	2.2	110

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19	Insufficient evidence for â€˜shaken baby syndromeâ€™ â€“ a systematic review. Acta Paediatrica, International Journal of Paediatrics, 2017, 106, 1021-1027.	1.5	104
20	Diffusion Tensor Imaging of Normal-Appearing White Matter as Biomarker for Radiation-Induced Late Delayed Cognitive Decline. International Journal of Radiation Oncology Biology Physics, 2012, 82, 2033-2040.	0.8	102
21	Diffusion Imaging: Insight to Cell Status and Cytoarchitecture. Neuroimaging Clinics of North America, 2006, 16, 619-632.	1.0	93
22	Physiologic and Metabolic Magnetic Resonance Imaging in Gliomas. Journal of Clinical Oncology, 2006, 24, 1228-1235.	1.6	90
23	Prospective Analysis of Parametric Response Mapâ€“Derived MRI Biomarkers: Identification of Early and Distinct Glioma Response Patterns Not Predicted by Standard Radiographic Assessment. Clinical Cancer Research, 2011, 17, 4751-4760.	7.0	84
24	Is administration of gadoliniumâ€based contrast media to pregnant women and small children justified?. Journal of Magnetic Resonance Imaging, 2011, 34, 750-757.	3.4	80
25	Review and consensus recommendations on clinical <scp>APT</scp>â€weighted imaging approaches at <scp>3T</scp>: Application to brain tumors. Magnetic Resonance in Medicine, 2022, 88, 546-574.	3.0	79
26	The Neuroanatomic Localization of Epstein-Barr Virus Encephalitis May be a Predictive Factor for its Clinical Outcome: A Case Report and Review of 100 Cases in 28 Reports. Journal of Child Neurology, 2009, 24, 720-726.	1.4	78
27	Ultrasensitive Immunoprofiling of Plasma Extracellular Vesicles Identifies Syndecan-1 as a Potential Tool for Minimally Invasive Diagnosis of Glioma. Clinical Cancer Research, 2019, 25, 3115-3127.	7.0	72
28	Regional values of diffusional kurtosis estimates in the healthy brain. Journal of Magnetic Resonance Imaging, 2013, 37, 610-618.	3.4	71
29	MR Spectroscopy Using Normalized and Non-normalized Metabolite Ratios for Differentiating Recurrent Brain Tumor from Radiation Injury. Academic Radiology, 2011, 18, 1101-1108.	2.5	70
30	Optimal experimental design for filter exchange imaging: Apparent exchange rate measurements in the healthy brain and in intracranial tumors. Magnetic Resonance in Medicine, 2017, 77, 1104-1114.	3.0	67
31	Myo-inositol changes precede amyloid pathology and relate to APOE genotype in Alzheimer disease. Neurology, 2016, 86, 1754-1761.	1.1	66
32	Intravoxel water diffusion heterogeneity imaging of human highâ€grade gliomas. NMR in Biomedicine, 2010, 23, 179-187.	2.8	65
33	Low-dose helical computed tomography (CT) in the perioperative workup of adolescent idiopathic scoliosis. European Radiology, 2009, 19, 610-618.	4.5	65
34	Comparison of apparent diffusion coefficients and distributed diffusion coefficients in highâ€grade gliomas. Journal of Magnetic Resonance Imaging, 2010, 31, 531-537.	3.4	63
35	Brain Irradiation: Effects on Normal Brain Parenchyma and Radiation Injury. Neuroimaging Clinics of North America, 2009, 19, 657-668.	1.0	62
36	Variability in diffusion kurtosis imaging: Impact on study design, statistical power and interpretation. NeuroImage, 2013, 76, 145-154.	4.2	62

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37	Imaging brain tumour microstructure. NeuroImage, 2018, 182, 232-250.	4.2	62
38	Dynamic Contrast-Enhanced Magnetic Resonance Imaging As a Biomarker for Prediction of Radiation-Induced Neurocognitive Dysfunction. Clinical Cancer Research, 2009, 15, 1747-1754.	7.0	59
39	Diffusion-Weighted and Diffusion Tensor Imaging in Fibromyalgia Patients: A Prospective Study of Whole Brain Diffusivity, Apparent Diffusion Coefficient, and Fraction Anisotropy in Different Regions of the Brain and Correlation With Symptom Severity. Academic Radiology, 2007, 14, 839-846.	2.5	58
40	Diminished white matter integrity in patients with systemic lupus erythematosus. NeuroImage: Clinical, 2014, 5, 291-297.	2.7	55
41	Tensorâ€valued diffusion MRI in under 3 minutes: an initial survey of microscopic anisotropy and tissue heterogeneity in intracranial tumors. Magnetic Resonance in Medicine, 2020, 83, 608-620.	3.0	55
42	Neuroimaging Evaluation of Non-accidental Head Trauma with Correlation to Clinical Outcomes: A Review of 57 Cases. Journal of Pediatrics, 2009, 154, 573-577.	1.8	49
43	Reliability of Low-Radiation Dose CT in the Assessment of Screw Placement After Posterior Scoliosis Surgery, Evaluated With a New Grading System. Spine, 2009, 34, 941-948.	2.0	46
44	Radiological and clinical outcome of screw placement in adolescent idiopathic scoliosis: evaluation with low-dose computed tomography. European Spine Journal, 2010, 19, 96-104.	2.2	44
45	Diagnostic value ofÂalternative techniques to gadolinium-based contrast agents in MR neuroimagingâ€”a comprehensive overview. Insights Into Imaging, 2019, 10, 84.	3.4	44
46	High Incidence of Chest Malignancy Detected by FDG PET in Patients Suspected of Recurrent Squamous Cell Carcinoma of the Upper Aerodigestive Tract. Journal of Computer Assisted Tomography, 2004, 28, 704-709.	0.9	37
47	Reduced Insular Glutamine andÂN-Acetylaspartate in Systemic Lupus Erythematosus. Academic Radiology, 2013, 20, 1286-1296.	2.5	34
48	Perfusion-weighted MR Imaging in Cerebral Lupus Erythematosus. Academic Radiology, 2012, 19, 965-970.	2.5	32
49	The effect of white matter hyperintensities on statistical analysis of diffusion tensor imaging in cognitively healthy elderly and prodromal Alzheimer's disease. PLoS ONE, 2017, 12, e0185239.	2.5	32
50	Brain myoinositol as a potential marker of amyloid-related pathology. Neurology, 2019, 92, e395-e405.	1.1	30
51	Changes in Regional Brain Morphology in Neuropsychiatric Systemic Lupus Erythematosus. Journal of Rheumatology, 2012, 39, 959-967.	2.0	29
52	Diffusion Tensor Magnetic Resonance Imaging. Journal of Neuro-Ophthalmology, 2006, 26, 51-60.	0.8	28
53	Altered white matter microstructure in lupus patients: a diffusion tensor imaging study. Arthritis Research and Therapy, 2018, 20, 21.	3.5	28
54	Impact of Perfusion Map Analysis on Early Survival Prediction Accuracy in Glioma Patients. Translational Oncology, 2013, 6, 766-774.	3.7	27

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55	Brain diffusivity in patients with neuropsychiatric systemic lupus erythematosus with new acute neurological symptoms. Journal of Magnetic Resonance Imaging, 2007, 26, 541-551.	3.4	26
56	Brain glutamine by MRS in a patient with urea cycle disorder and coma. Pediatric Neurology, 2005, 32, 143-146.	2.1	25
57	Arterial Input Functions and Tissue Response Curves in Dynamic Glucose-Enhanced (DGE) Imaging: Comparison between glucoCEST and Blood Glucose Sampling in Humans. Tomography, 2018, 4, 164-171.	1.8	25
58	Comparison of Voxel-Wise and Histogram Analyses of Glioma ADC Maps for Prediction of Early Therapeutic Change. Tomography, 2019, 5, 7-14.	1.8	25
59	Functional connectivity changes in core resting state networks are associated with cognitive performance in systemic lupus erythematosus. Journal of Comparative Neurology, 2019, 527, 1837-1856.	1.6	23
60	Intraventricular Extension of Supratentorial Intracerebral Hemorrhage: The Modified Graeb Scale Improves Outcome Prediction in Lund Stroke Register. Neuroepidemiology, 2016, 46, 43-50.	2.3	22
61	Multivoxel 1H-MR Spectroscopy Biometrics for Preoprerative Differentiation between Brain Tumors. Tomography, 2018, 4, 172-181.	1.8	22
62	Comparison of Diffusion Tensor Imaging and Magnetic Resonance Perfusion Imaging in Differentiating Recurrent Brain Neoplasm From Radiation Necrosis. Academic Radiology, 2016, 23, 569-576.	2.5	21
63	Spectroscopic differences in posterior insula in patients with chronic temporomandibular pain. Scandinavian Journal of Pain, 2018, 18, 351-361.	1.3	21
64	Extracellular lipid loading augments hypoxic paracrine signaling and promotes glioma angiogenesis and macrophage infiltration. Journal of Experimental and Clinical Cancer Research, 2019, 38, 241.	8.6	21
65	Functional Connectivity Changes in Systemic Lupus Erythematosus: A Resting-State Study. Brain Connectivity, 2018, 8, 220-234.	1.7	19
66	Spinal Trauma. Neuroimaging Clinics of North America, 2007, 17, 73-85.	1.0	18
67	Spatial analysis of diffusion tensor tractography statistics along the inferior fronto-occipital fasciculus with application in progressive supranuclear palsy. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 527-537.	2.0	18
68	Sonographically Guided Lumbar Puncture in Pediatric Patients. Journal of Ultrasound in Medicine, 2013, 32, 2191-2197.	1.7	18
69	Development of a Multiparametric Voxel-Based Magnetic Resonance Imaging Biomarker for Early Cancer Therapeutic Response Assessment. Tomography, 2015, 1, 44-52.	1.8	18
70	Mentoring Radiology Residents in Clinical and Translational Research. Academic Radiology, 2012, 19, 1110-1113.	2.5	16
71	BundleMAP: Anatomically localized classification, regression, and hypothesis testing in diffusion MRI. Pattern Recognition, 2017, 63, 593-600.	8.1	15
72	Associations between Metabolic Risk Factors and the Hypothalamic Volume in Childhood Leukemia Survivors Treated with Cranial Radiotherapy. PLoS ONE, 2016, 11, e0147575.	2.5	14

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73	Is accepting circular reasoning in shaken baby studies bad science or misconduct?. Acta Paediatrica, International Journal of Paediatrics, 2017, 106, 1445-1446.	1.5	14
74	Prevalence and Etiology of Intracranial Hemorrhage in Term Children Under the Age of Two Years. Academic Radiology, 2009, 16, 572-577.	2.5	13
75	Microstructural white matter alterations associated to neurocognitive deficits in childhood leukemia survivors treated with cranial radiotherapy â€“ a diffusional kurtosis study. Acta OncolÃ³gica, 2019, 58, 1021-1028.	1.8	13
76	Assessment of Amide proton transfer weighted (APTw) MRI for pre-surgical prediction of final diagnosis in gliomas. PLoS ONE, 2020, 15, e0244003.	2.5	12
77	Active NET formation in Libmanâ€“Sacks endocarditis without antiphospholipid antibodies: A dramatic onset of systemic lupus erythematosus. Autoimmunity, 2018, 51, 310-318.	2.6	11
78	Longitudinal study of cognitive function in glioma patients treated with modern radiotherapy techniques and standard chemotherapy. Acta OncolÃ³gica, 2020, 59, 1091-1097.	1.8	11
79	Histogram analysis of tensor-valued diffusion MRI in meningiomas: Relation to consistency, histological grade and type. NeuroImage: Clinical, 2022, 33, 102912.	2.7	11
80	Evaluation of reproducibility in MRI quantitative volumetric assessment and its role in the prediction of overall survival and progression-free survival in glioblastoma. Acta Radiologica, 2019, 60, 516-525.	1.1	10
81	Added Utility of Gadolinium in the Magnetic Resonance Imaging (MRI) Workup of Seizures in Children Younger Than 2 Years. Journal of Child Neurology, 2007, 22, 200-203.	1.4	8
82	Associations between Presence of Relevant Information in Referrals to Radiology and Prevalence Rates in Patients with Suspected Pulmonary Embolism. Academic Radiology, 2013, 20, 1115-1121.	2.5	8
83	Pouring out the dirty bathwater without throwing away either the baby or its parents: commentary to Saunders et al.. Pediatric Radiology, 2018, 48, 284-286.	2.0	8
84	Impaired brain metabolism and neurocognitive function in childhood leukemia survivors despite complete hormone supplementation in adulthood. Psychoneuroendocrinology, 2016, 73, 157-165.	2.7	7
85	The shaken baby syndrome report was not the result of a conspiracy. Response to Dr.ÂNarang etÂal.. Acta Paediatrica, International Journal of Paediatrics, 2017, 106, 1050-1051.	1.5	7
86	Towards robust glucose chemical exchange saturation transfer imaging in humans at 3ÂT: Arterial input function measurements and the effects of infusion time. NMR in Biomedicine, 2022, 35, e4624.	2.8	7
87	Value of Gadolinium in Brain MRI Examinations for Developmental Delay. Pediatric Neurology, 2006, 35, 126-130.	2.1	6
88	Authors' overarching reply to all the responses received to the systematic literature review on shaken baby syndrome. Acta Paediatrica, International Journal of Paediatrics, 2017, 106, 1031-1031.	1.5	6
89	Manually Adjusted Versus Vendor-Preset Definition of Metabolite Boundaries. Academic Radiology, 2007, 14, 340-343.	2.5	5
90	Imaging of Slow Viruses. Neuroimaging Clinics of North America, 2008, 18, 133-148.	1.0	5

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91	The scientific evidence regarding retinal haemorrhages. Response to Hellgren et al. and Levin. Acta Paediatrica, International Journal of Paediatrics, 2017, 106, 1041-1042.	1.5	5
92	Sensitivity of Diffusion MRI to White Matter Pathology: Influence of Diffusion Protocol, Magnetic Field Strength, and Processing Pipeline in Systemic Lupus Erythematosus. Frontiers in Neurology, 2022, 13, 837385.	2.4	5
93	CNS-Effects from Subarachnoid Injections of Iohexol and the Non-Ionic Dimers Iodixanol and Iotrolan in the Rabbit. Acta Radiologica, 1995, 36, 307-311.	1.1	4
94	A misunderstanding. Response to Dr Bilo et al.. Acta Paediatrica, International Journal of Paediatrics, 2017, 106, 1046-1046.	1.5	4
95	The effects of uterine artery embolization with a new degradable microsphere in an experimental study. Acta Radiologica, 2017, 58, 1334-1341.	1.1	4
96	Easier to see the speck in your critical peersâ€™ eyes than the log in your own? Response to Debelleet al. Archives of Disease in Childhood, 2018, 103, archdischild-2018-315380.	1.9	4
97	What are acceptable conclusions? Response to Dr. Ludvigsson. Acta Paediatrica, International Journal of Paediatrics, 2017, 106, 1032-1032.	1.5	3
98	Conflicts of interest issues. Response to Lucas et al.. Acta Paediatrica, International Journal of Paediatrics, 2017, 106, 1036-1036.	1.5	3
99	Dynamic Susceptibility Contrast MRI at 7 T: Tail-Scaling Analysis and Inferences about Field Strength Dependence. Tomography, 2017, 3, 74-78.	1.8	3
100	Diffusion Tensor Imaging and Tractography: Have They Come of Age?. Journal of Neuro-Ophthalmology, 2009, 29, 93-95.	0.8	2
101	Acute Spinal Trauma. , 2012, , 167-172.		2
102	Spinal Trauma and Spinal Cord Injury. , 2016, , 187-193.		2
103	Optimal experimental design for filter exchange imaging: Apparent exchange rate measurements in the healthy brain and in intracranial tumors. Magnetic Resonance in Medicine, 2017, 77, C1-C1.	3.0	2
104	Structural Changes on MRI Demonstrate Specific Cerebellar Involvement in SLE Patientsâ€”A VBM Study. Brain Sciences, 2021, 11, 510.	2.3	2
105	BundleMAP: Anatomically Localized Features from dMRI for Detection of Disease. Lecture Notes in Computer Science, 2015, , 52-60.	1.3	2
106	Diffusion tensor imaging in glioblastoma patients treated with volumetric modulated arc radiotherapy: a longitudinal study. Acta OncolÃ³gica, 2022, 61, 680-687.	1.8	2
107	Brain Tumors: Diffusion Imaging and Diffusion Tensor Imaging. , 2011, , 145-156.		1
108	Multi-voxel proton magnetic resonance spectroscopy changes in neuropsychiatric lupus patients. South African Journal of Radiology, 2016, 20, .	0.3	1

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109	Resonate: Reflections and recommendations on implicit biases within the ISMRM. Journal of Magnetic Resonance Imaging, 2019, 49, 1509-1511.	3.4	1
110	Cognitive interference processing in adult survivors of childhood acute lymphoblastic leukemia using functional magnetic resonance imaging. Acta OncolÃ³gica, 2022, 61, 333-340.	1.8	1
111	Neuroimaging of Pain. , 2011, , 273-290.		1
112	MR- safety: Evaluation of compliance with screening routines using a structured screening interview. Journal of Patient Safety and Risk Management, 0, , 251604352210774.	0.6	1
113	Editorial: Accelerated Brain Aging: Different Diseasesâ€"Different Imaging Patterns. Frontiers in Neurology, 2022, 13, 889538.	2.4	1
114	MR-safety in clinical practice at 7T: Evaluation of a multistep screening process in 1819 subjects. Radiography, 2021, , .	2.1	1
115	Neural tolerability of commercial preparations of iodinated nonionic monomers and dimers: Comparison in an animal model. Academic Radiology, 1996, 3, S220-S222.	2.5	0
116	Preface. Neuroimaging Clinics of North America, 2009, 19, xiii.	1.0	0
117	Detailed Anatomy at 7T. , 2018, , 145-151.		0
118	P43â€…Serum S100A8/A9 concentrations are associated with neuropsychiatric involvement and fatigue in SLE. , 2020, , .		0
119	Cognitive interference processing in adults with childhood craniopharyngioma using functional magnetic resonance imaging. Endocrine, 2021, 74, 714-722.	2.3	0
120	Intradural Spinal Tumors: Classification, Symptoms, and Radiological Features. , 2012, , 19-28.		0
121	Diagnostic Approaches to Spinal Disease Related to Spinal Intervention. , 2013, , 27-41.		0
122	Separating Glioma Hyperintensities From White Matter by Diffusion-Weighted Imaging With Spherical Tensor Encoding. Frontiers in Neuroscience, 2022, 16, 842242.	2.8	0
123	Infections and inflammatory conditions of the pediatric spine and spinal cord. , 0, , 16-22.		0