

# Pia C Sundgren

## List of Publications by Year in descending order

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123  
papers

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66343

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74163

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docs citations

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times ranked

7096  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards robust glucose chemical exchange saturation transfer imaging in humans at 3T: Arterial input function measurements and the effects of infusion time. <i>NMR in Biomedicine</i> , 2022, 35, e4624.	2.8	7
2	Cognitive interference processing in adult survivors of childhood acute lymphoblastic leukemia using functional magnetic resonance imaging. <i>Acta Oncologica</i> , 2022, 61, 333-340.	1.8	1
3	Histogram analysis of tensor-valued diffusion MRI in meningiomas: Relation to consistency, histological grade and type. <i>NeuroImage: Clinical</i> , 2022, 33, 102912.	2.7	11
4	Diffusion tensor imaging in glioblastoma patients treated with volumetric modulated arc radiotherapy: a longitudinal study. <i>Acta Oncologica</i> , 2022, 61, 680-687.	1.8	2
5	Editorial: Accelerated Brain Aging: Different Diseases – Different Imaging Patterns. <i>Frontiers in Neurology</i> , 2022, 13, 889538.	2.4	1
6	Separating Glioma Hyperintensities From White Matter by Diffusion-Weighted Imaging With Spherical Tensor Encoding. <i>Frontiers in Neuroscience</i> , 2022, 16, 842242.	2.8	0
7	Review and consensus recommendations on clinical $\text{APT}$ -weighted imaging approaches at $3T$ : Application to brain tumors. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 546-574.	3.0	79
8	Sensitivity of Diffusion MRI to White Matter Pathology: Influence of Diffusion Protocol, Magnetic Field Strength, and Processing Pipeline in Systemic Lupus Erythematosus. <i>Frontiers in Neurology</i> , 2022, 13, 837385.	2.4	5
9	Structural Changes on MRI Demonstrate Specific Cerebellar Involvement in SLE Patients – A VBM Study. <i>Brain Sciences</i> , 2021, 11, 510.	2.3	2
10	Cognitive interference processing in adults with childhood craniopharyngioma using functional magnetic resonance imaging. <i>Endocrine</i> , 2021, 74, 714-722.	2.3	0
11	MR-safety in clinical practice at 7T: Evaluation of a multistep screening process in 1819 subjects. <i>Radiography</i> , 2021, . .	2.1	1
12	Tensor-valued diffusion MRI in under 3 minutes: an initial survey of microscopic anisotropy and tissue heterogeneity in intracranial tumors. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 608-620.	3.0	55
13	Longitudinal study of cognitive function in glioma patients treated with modern radiotherapy techniques and standard chemotherapy. <i>Acta Oncologica</i> , 2020, 59, 1091-1097.	1.8	11
14	P43 – Serum S100A8/A9 concentrations are associated with neuropsychiatric involvement and fatigue in SLE. , 2020, . .		0
15	Assessment of Amide proton transfer weighted (APT <sub>w</sub> ) MRI for pre-surgical prediction of final diagnosis in gliomas. <i>PLoS ONE</i> , 2020, 15, e0244003.	2.5	12
16	Evaluation of reproducibility in MRI quantitative volumetric assessment and its role in the prediction of overall survival and progression-free survival in glioblastoma. <i>Acta Radiologica</i> , 2019, 60, 516-525.	1.1	10
17	Ultrasensitive Immunoprofiling of Plasma Extracellular Vesicles Identifies Syndecan-1 as a Potential Tool for Minimally Invasive Diagnosis of Glioma. <i>Clinical Cancer Research</i> , 2019, 25, 3115-3127.	7.0	72
18	Resonate: Reflections and recommendations on implicit biases within the ISMRM. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1509-1511.	3.4	1

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19	Extracellular lipid loading augments hypoxic paracrine signaling and promotes glioma angiogenesis and macrophage infiltration. <i>Journal of Experimental and Clinical Cancer Research</i> , 2019, 38, 241.	8.6	21
20	Functional connectivity changes in core resting state networks are associated with cognitive performance in systemic lupus erythematosus. <i>Journal of Comparative Neurology</i> , 2019, 527, 1837-1856.	1.6	23
21	Microstructural white matter alterations associated to neurocognitive deficits in childhood leukemia survivors treated with cranial radiotherapy – a diffusional kurtosis study. <i>Acta Oncologica</i> , 2019, 58, 1021-1028.	1.8	13
22	Diagnostic value of alternative techniques to gadolinium-based contrast agents in MR neuroimaging – a comprehensive overview. <i>Insights Into Imaging</i> , 2019, 10, 84.	3.4	44
23	Brain myoinositol as a potential marker of amyloid-related pathology. <i>Neurology</i> , 2019, 92, e395-e405.	1.1	30
24	Comparison of Voxel-Wise and Histogram Analyses of Glioma ADC Maps for Prediction of Early Therapeutic Change. <i>Tomography</i> , 2019, 5, 7-14.	1.8	25
25	Functional Connectivity Changes in Systemic Lupus Erythematosus: A Resting-State Study. <i>Brain Connectivity</i> , 2018, 8, 220-234.	1.7	19
26	Pouring out the dirty bathwater without throwing away either the baby or its parents: commentary to Saunders et al.. <i>Pediatric Radiology</i> , 2018, 48, 284-286.	2.0	8
27	Detailed Anatomy at 7T. , 2018, , 145-151.		0
28	Active NET formation in Libman–Sacks endocarditis without antiphospholipid antibodies: A dramatic onset of systemic lupus erythematosus. <i>Autoimmunity</i> , 2018, 51, 310-318.	2.6	11
29	Spectroscopic differences in posterior insula in patients with chronic temporomandibular pain. <i>Scandinavian Journal of Pain</i> , 2018, 18, 351-361.	1.3	21
30	Imaging brain tumour microstructure. <i>NeuroImage</i> , 2018, 182, 232-250.	4.2	62
31	Altered white matter microstructure in lupus patients: a diffusion tensor imaging study. <i>Arthritis Research and Therapy</i> , 2018, 20, 21.	3.5	28
32	Easier to see the speck in your critical peers' eyes than the log in your own? Response to DeBelle et al. <i>Archives of Disease in Childhood</i> , 2018, 103, archdischild-2018-315380.	1.9	4
33	Arterial Input Functions and Tissue Response Curves in Dynamic Glucose-Enhanced (DGE) Imaging: Comparison between glucoCEST and Blood Glucose Sampling in Humans. <i>Tomography</i> , 2018, 4, 164-171.	1.8	25
34	Multivoxel 1H-MR Spectroscopy Biometrics for Preoperative Differentiation between Brain Tumors. <i>Tomography</i> , 2018, 4, 172-181.	1.8	22
35	Insufficient evidence for "shaken baby syndrome" – a systematic review. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2017, 106, 1021-1027.	1.5	104
36	The shaken baby syndrome report was not the result of a conspiracy. Response to Dr. Narang et al.. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2017, 106, 1050-1051.	1.5	7

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37	A misunderstanding. Response to Dr Bilo et al.. Acta Paediatrica, International Journal of Paediatrics, 2017, 106, 1046-1046.	1.5	4
38	What are acceptable conclusions? Response to Dr. Ludvigsson. Acta Paediatrica, International Journal of Paediatrics, 2017, 106, 1032-1032.	1.5	3
39	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
40	Conflicts of interest issues. Response to Lucas et al.. Acta Paediatrica, International Journal of Paediatrics, 2017, 106, 1036-1036.	1.5	3
41	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
42	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
43	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
44	The effects of uterine artery embolization with a new degradable microsphere in an experimental study. Acta Radiologica, 2017, 58, 1334-1341.	1.1	4
45	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
46	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
47	BundleMAP: Anatomically localized classification, regression, and hypothesis testing in diffusion MRI. Pattern Recognition, 2017, 63, 593-600.	8.1	15
48	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
49	Dynamic Susceptibility Contrast MRI at 7 T: Tail-Scaling Analysis and Inferences about Field Strength Dependence. Tomography, 2017, 3, 74-78.	1.8	3
50	Multi-voxel proton magnetic resonance spectroscopy changes in neuropsychiatric lupus patients. South African Journal of Radiology, 2016, 20, .	0.3	1
51	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
52	Myo-inositol changes precede amyloid pathology and relate to <i>APOE</i> genotype in Alzheimer disease. Neurology, 2016, 86, 1754-1761.	1.1	66
53	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
54	Spinal Trauma and Spinal Cord Injury. , 2016, , 187-193.		2

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55	Comparison of Diffusion Tensor Imaging and Magnetic Resonance Perfusion Imaging in Differentiating Recurrent Brain Neoplasm From Radiation Necrosis. <i>Academic Radiology</i> , 2016, 23, 569-576.	2.5	21
56	The link between diffusion MRI and tumor heterogeneity: Mapping cell eccentricity and density by diffusional variance decomposition (DIVIDE). <i>NeuroImage</i> , 2016, 142, 522-532.	4.2	141
57	Impaired brain metabolism and neurocognitive function in childhood leukemia survivors despite complete hormone supplementation in adulthood. <i>Psychoneuroendocrinology</i> , 2016, 73, 157-165.	2.7	7
58	Functional Connectivity Is Associated With Altered Brain Chemistry in Women With Endometriosis-Associated Chronic Pelvic Pain. <i>Journal of Pain</i> , 2016, 17, 1-13.	1.4	135
59	Quantification of microscopic diffusion anisotropy disentangles effects of orientation dispersion from microstructure: Applications in healthy volunteers and in brain tumors. <i>NeuroImage</i> , 2015, 104, 241-252.	4.2	216
60	Development of a Multiparametric Voxel-Based Magnetic Resonance Imaging Biomarker for Early Cancer Therapeutic Response Assessment. <i>Tomography</i> , 2015, 1, 44-52.	1.8	18
61	BundleMAP: Anatomically Localized Features from dMRI for Detection of Disease. <i>Lecture Notes in Computer Science</i> , 2015, , 52-60.	1.3	2
62	Diminished white matter integrity in patients with systemic lupus erythematosus. <i>NeuroImage: Clinical</i> , 2014, 5, 291-297.	2.7	55
63	Impact of Perfusion Map Analysis on Early Survival Prediction Accuracy in Glioma Patients. <i>Translational Oncology</i> , 2013, 6, 766-774.	3.7	27
64	Associations between Presence of Relevant Information in Referrals to Radiology and Prevalence Rates in Patients with Suspected Pulmonary Embolism. <i>Academic Radiology</i> , 2013, 20, 1115-1121.	2.5	8
65	Variability in diffusion kurtosis imaging: Impact on study design, statistical power and interpretation. <i>NeuroImage</i> , 2013, 76, 145-154.	4.2	62
66	Spatial analysis of diffusion tensor tractography statistics along the inferior fronto-occipital fasciculus with application in progressive supranuclear palsy. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2013, 26, 527-537.	2.0	18
67	Reduced Insular Glutamine and $\gamma$ -Acetylaspartate in Systemic Lupus Erythematosus. <i>Academic Radiology</i> , 2013, 20, 1286-1296.	2.5	34
68	The role of tissue microstructure and water exchange in biophysical modelling of diffusion in white matter. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2013, 26, 345-370.	2.0	123
69	Sonographically Guided Lumbar Puncture in Pediatric Patients. <i>Journal of Ultrasound in Medicine</i> , 2013, 32, 2191-2197.	1.7	18
70	Regional values of diffusional kurtosis estimates in the healthy brain. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 37, 610-618.	3.4	71
71	Pregabalin Rectifies Aberrant Brain Chemistry, Connectivity, and Functional Response in Chronic Pain Patients. <i>Anesthesiology</i> , 2013, 119, 1453-1464.	2.5	225
72	Diagnostic Approaches to Spinal Disease Related to Spinal Intervention. , 2013, , 27-41.		0

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73	Diffusion Tensor Imaging of Normal-Appearing White Matter as Biomarker for Radiation-Induced Late Delayed Cognitive Decline. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 82, 2033-2040.	0.8	102
74	Perfusion-weighted MR Imaging in Cerebral Lupus Erythematosus. <i>Academic Radiology</i> , 2012, 19, 965-970.	2.5	32
75	Changes in Regional Brain Morphology in Neuropsychiatric Systemic Lupus Erythematosus. <i>Journal of Rheumatology</i> , 2012, 39, 959-967.	2.0	29
76	Mentoring Radiology Residents in Clinical and Translational Research. <i>Academic Radiology</i> , 2012, 19, 1110-1113.	2.5	16
77	Acute Spinal Trauma. , 2012, , 167-172.		2
78	Reduced insular Î³-aminobutyric acid in fibromyalgia. <i>Arthritis and Rheumatism</i> , 2012, 64, 579-583.	6.7	171
79	Intradural Spinal Tumors: Classification, Symptoms, and Radiological Features. , 2012, , 19-28.		0
80	Prospective Analysis of Parametric Response Mapâ€‘Derived MRI Biomarkers: Identification of Early and Distinct Glioma Response Patterns Not Predicted by Standard Radiographic Assessment. <i>Clinical Cancer Research</i> , 2011, 17, 4751-4760.	7.0	84
81	MR Spectroscopy Using Normalized and Non-normalized Metabolite Ratios for Differentiating Recurrent Brain Tumor from Radiation Injury. <i>Academic Radiology</i> , 2011, 18, 1101-1108.	2.5	70
82	Brain Tumors: Diffusion Imaging and Diffusion Tensor Imaging. , 2011, , 145-156.		1
83	Is administration of gadoliniumâ€‘based contrast media to pregnant women and small children justified?. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 750-757.	3.4	80
84	Neuroimaging of Pain. , 2011, , 273-290.		1
85	Intravoxel water diffusion heterogeneity imaging of human highâ€‘grade gliomas. <i>NMR in Biomedicine</i> , 2010, 23, 179-187.	2.8	65
86	Radiological and clinical outcome of screw placement in adolescent idiopathic scoliosis: evaluation with low-dose computed tomography. <i>European Spine Journal</i> , 2010, 19, 96-104.	2.2	44
87	Comparison of apparent diffusion coefficients and distributed diffusion coefficients in highâ€‘grade gliomas. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 531-537.	3.4	63
88	Parametric Response Map As an Imaging Biomarker to Distinguish Progression From Pseudoprogression in High-Grade Glioma. <i>Journal of Clinical Oncology</i> , 2010, 28, 2293-2299.	1.6	202
89	Dynamic Contrast-Enhanced Magnetic Resonance Imaging As a Biomarker for Prediction of Radiation-Induced Neurocognitive Dysfunction. <i>Clinical Cancer Research</i> , 2009, 15, 1747-1754.	7.0	59
90	Neuroimaging Evaluation of Non-accidental Head Trauma with Correlation to Clinical Outcomes: A Review of 57 Cases. <i>Journal of Pediatrics</i> , 2009, 154, 573-577.	1.8	49

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91	Elevated insular glutamate in fibromyalgia is associated with experimental pain. <i>Arthritis and Rheumatism</i> , 2009, 60, 3146-3152.	6.7	270
92	The parametric response map is an imaging biomarker for early cancer treatment outcome. <i>Nature Medicine</i> , 2009, 15, 572-576.	30.7	187
93	Low-dose helical computed tomography (CT) in the perioperative workup of adolescent idiopathic scoliosis. <i>European Radiology</i> , 2009, 19, 610-618.	4.5	65
94	No consistent difference in gray matter volume between individuals with fibromyalgia and age-matched healthy subjects when controlling for affective disorder. <i>Pain</i> , 2009, 143, 262-267.	4.2	111
95	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. <i>Journal of Child Neurology</i> , 2009, 24, 720-726.	1.4	78
96	Brain Irradiation: Effects on Normal Brain Parenchyma and Radiation Injury. <i>Neuroimaging Clinics of North America</i> , 2009, 19, 657-668.	1.0	62
97	Preface. <i>Neuroimaging Clinics of North America</i> , 2009, 19, xiii.	1.0	0
98	Prevalence and Etiology of Intracranial Hemorrhage in Term Children Under the Age of Two Years. <i>Academic Radiology</i> , 2009, 16, 572-577.	2.5	13
99	Developing a Clinical Decision Model: MR Spectroscopy to Differentiate Between Recurrent Tumor and Radiation Change in Patients with New Contrast-Enhancing Lesions. <i>American Journal of Roentgenology</i> , 2009, 192, W45-W52.	2.2	110
100	Reliability of Low-Radiation Dose CT in the Assessment of Screw Placement After Posterior Scoliosis Surgery, Evaluated With a New Grading System. <i>Spine</i> , 2009, 34, 941-948.	2.0	46
101	Diffusion Tensor Imaging and Tractography: Have They Come of Age?. <i>Journal of Neuro-Ophthalmology</i> , 2009, 29, 93-95.	0.8	2
102	Intradural spinal tumors: current classification and MRI features. <i>Neuroradiology</i> , 2008, 50, 301-314.	2.2	270
103	Dynamic levels of glutamate within the insula are associated with improvements in multiple pain domains in fibromyalgia. <i>Arthritis and Rheumatism</i> , 2008, 58, 903-907.	6.7	193
104	Imaging of Slow Viruses. <i>Neuroimaging Clinics of North America</i> , 2008, 18, 133-148.	1.0	5
105	Functional Diffusion Map As an Early Imaging Biomarker for High-Grade Glioma: Correlation With Conventional Radiologic Response and Overall Survival. <i>Journal of Clinical Oncology</i> , 2008, 26, 3387-3394.	1.6	264
106	Added Utility of Gadolinium in the Magnetic Resonance Imaging (MRI) Workup of Seizures in Children Younger Than 2 Years. <i>Journal of Child Neurology</i> , 2007, 22, 200-203.	1.4	8
107	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. <i>Academic Radiology</i> , 2007, 14, 839-846.	2.5	58
108	Manually Adjusted Versus Vendor-Preset Definition of Metabolite Boundaries. <i>Academic Radiology</i> , 2007, 14, 340-343.	2.5	5

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109	Spinal Trauma. <i>Neuroimaging Clinics of North America</i> , 2007, 17, 73-85.	1.0	18
110	Brain diffusivity in patients with neuropsychiatric systemic lupus erythematosus with new acute neurological symptoms. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 26, 541-551.	3.4	26
111	Diffusion Imaging: Insight to Cell Status and Cytoarchitecture. <i>Neuroimaging Clinics of North America</i> , 2006, 16, 619-632.	1.0	93
112	Value of Gadolinium in Brain MRI Examinations for Developmental Delay. <i>Pediatric Neurology</i> , 2006, 35, 126-130.	2.1	6
113	Diffusion Tensor Magnetic Resonance Imaging. <i>Journal of Neuro-Ophthalmology</i> , 2006, 26, 51-60.	0.8	28
114	Differentiation of recurrent brain tumor versus radiation injury using diffusion tensor imaging in patients with new contrast-enhancing lesions. <i>Magnetic Resonance Imaging</i> , 2006, 24, 1131-1142.	1.8	169
115	Physiologic and Metabolic Magnetic Resonance Imaging in Gliomas. <i>Journal of Clinical Oncology</i> , 2006, 24, 1228-1235.	1.6	90
116	Magnetic Resonance Spectroscopy. <i>Journal of Neuro-Ophthalmology</i> , 2005, 25, 217-226.	0.8	201
117	Differentiation Between Brain Tumor Recurrence and Radiation Injury Using MR Spectroscopy. <i>American Journal of Roentgenology</i> , 2005, 185, 1471-1476.	2.2	200
118	Brain glutamine by MRS in a patient with urea cycle disorder and coma. <i>Pediatric Neurology</i> , 2005, 32, 143-146.	2.1	25
119	High Incidence of Chest Malignancy Detected by FDG PET in Patients Suspected of Recurrent Squamous Cell Carcinoma of the Upper Aerodigestive Tract. <i>Journal of Computer Assisted Tomography</i> , 2004, 28, 704-709.	0.9	37
120	Neural tolerability of commercial preparations of iodinated nonionic monomers and dimers: Comparison in an animal model. <i>Academic Radiology</i> , 1996, 3, S220-S222.	2.5	0
121	CNS-Effects from Subarachnoid Injections of Iohexol and the Non-Ionic Dimers Iodixanol and Iotrolan in the Rabbit. <i>Acta Radiologica</i> , 1995, 36, 307-311.	1.1	4
122	MR- safety: Evaluation of compliance with screening routines using a structured screening interview. <i>Journal of Patient Safety and Risk Management</i> , 0, , 251604352210774.	0.6	1
123	Infections and inflammatory conditions of the pediatric spine and spinal cord. , 0, , 16-22.		0