Georg Schramm

List of Publications by Year
in descending order

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69 papers	1,558 citations	304743 22 h-index	345221 36 g-index
72 all docs	72 docs citations	72 times ranked	2812 citing authors

#	Article	IF	Citations
1	Regional glucose metabolic decreases with ageing are associated with microstructural white matter changes: a simultaneous PET/MR study. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 664-680.	6.4	10
2	Can nuclear imaging accurately detect scar in ischemic cardiac resynchronization therapy candidates?. Nuclear Medicine Communications, 2022, Publish Ahead of Print, .	1.1	0
3	Use of Micro-Computed Tomography to Visualize and Quantify COVID-19 Efficiency in Free-Breathing Hamsters. Methods in Molecular Biology, 2022, 2410, 177-192.	0.9	5
4	Fast and memory-efficient reconstruction of sparse Poisson data in listmode with non-smooth priors with application to time-of-flight PET. Physics in Medicine and Biology, 2022, 67, 155020.	3.0	3
5	Impact of left bundle branch block on myocardial perfusion and metabolism: A positron emission tomography study. Journal of Nuclear Cardiology, 2021, 28, 1730-1739.	2.1	6
6	Approximating anatomically-guided PET reconstruction in image space using a convolutional neural network. NeuroImage, 2021, 224, 117399.	4.2	29
7	Quantitative PET in the 2020s: a roadmap. Physics in Medicine and Biology, 2021, 66, 06RM01.	3.0	36
8	Artificial Intelligence for PET Image Reconstruction. Journal of Nuclear Medicine, 2021, 62, 1330-1333.	5.0	17
9	Rigid motion tracking using moments of inertia in TOF-PET brain studies. Physics in Medicine and Biology, 2021, 66, 184001.	3.0	5
10	2-D Feasibility Study of Joint Reconstruction of Attenuation and Activity in Limited Angle TOF-PET. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 712-722.	3.7	2
11	Time of Flight in Perspective: Instrumental and Computational Aspects of Time Resolution in Positron Emission Tomography. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 598-618.	3.7	18
12	Benefits of Using a Spatially-Variant Penalty Strength With Anatomical Priors in PET Reconstruction. IEEE Transactions on Medical Imaging, 2020, 39, 11-22.	8.9	10
13	Estimation of Crystal Timing Properties and Efficiencies for the Improvement of (Joint) Maximum-Likelihood Reconstructions in TOF-PET. IEEE Transactions on Medical Imaging, 2020, 39, 952-963.	8.9	12
14	STAT2 signaling restricts viral dissemination but drives severe pneumonia in SARS-CoV-2 infected hamsters. Nature Communications, 2020, 11, 5838.	12.8	225
15	Use of Multimodal Imaging and Clinical Biomarkers in Presymptomatic Carriers of C9orf72 Repeat Expansion. JAMA Neurology, 2020, 77, 1008.	9.0	45
16	Limited Angle Tomography reconstruction for non-standard MBI system by means of parallel-hole and pinhole optics. Journal of Instrumentation, 2020, 15, C04019-C04019.	1.2	0
17	Moving Toward Multicenter Therapeutic Trials in Amyotrophic Lateral Sclerosis: Feasibility of Data Pooling Using Different Translocator Protein PET Radioligands. Journal of Nuclear Medicine, 2020, 61, 1621-1627.	5.0	22
18	Whole liver segmentation based on deep learning and manual adjustment for clinical use in SIRT. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2742-2752.	6.4	36

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19	Combined brain and spinal FDG PET allows differentiation between ALS and ALS mimics. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2681-2690.	6.4	15
20	Rigid Motion Tracking using Moments of Inertia in TOF-PET Brain Studies. , 2020, , .		1
21	Long-term Ashtanga yoga practice decreases medial temporal and brainstem glucose metabolism in relation to years of experience. EJNMMI Research, 2020, 10, 50.	2.5	7
22	Interobserver variability of image-derived arterial blood SUV in whole-body FDG PET. EJNMMI Research, 2019, 9, 23.	2.5	4
23	A Quantitative Evaluation of Joint Activity and Attenuation Reconstruction in TOF PET/MR Brain Imaging. Journal of Nuclear Medicine, 2019, 60, 1649-1655.	5.0	26
24	Maximum Likelihood Estimation of the Geometric Sensitivities in PET. , 2019, , .		0
25	Metal artifact correction strategies in MRI-based attenuation correction in PET/MRI. BJR|Open, 2019, 1, 20190033.	0.6	11
26	4D CBCT reconstruction with TV regularization on a dynamic software phantom. , 2019, , .		2
27	Regional Accuracy of ZTE-Based Attenuation Correction in Static [18F]FDG and Dynamic [18F]PE2I Brain PET/MR. Frontiers in Physics, 2019, 7, .	2.1	38
28	Low septal to lateral wall 18F-FDG ratio is highly associated with mechanical dyssynchrony in non-ischemic CRT candidates. EJNMMI Research, 2019, 9, 105.	2.5	5
29	Evaluation of Parallel Level Sets and Bowsherâ€™s Method as Segmentation-Free Anatomical Priors for Time-of-Flight PET Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 590-603.	8.9	41
30	Approximating MRI-Based Anatomically Guided PET Reconstruction with a Convolutional Neural Network. , 2018, , .		3
31	Estimation of crystal timings in TOF-PET. , 2018, , .		3
32	An approach for a reconstruction-derived whole-blood arterial input function (RDIF) in PET/MRI. , 2018, , .		0
33	FDG PET/MR in initial staging of sarcoma: Initial experience and comparison with conventional imaging. Clinical Imaging, 2017, 42, 126-132.	1.5	21
34	Data driven time alignment for TOF-PET. , 2017, , .		6
35	Spatially-variant Strength for Anatomical Priors in PET Reconstruction. , 2017, , .		2
36	Synthesis and Kinetic Characterisation of Waterâ€Soluble Fluorogenic Acyl Donors for Transglutaminaseâ€...2. ChemBioChem, 2016, 17, 1263-1281.	2.6	8

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37	Measurement of the photodissociation of the deuteron at energies relevant to Big Bang nucleosynthesis. Journal of Physics: Conference Series, 2016, 665, 012003.	0.4	0
38	Role of electric and magnetic dipole strength functions in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Cd</mml:mi><mml:mprescripts /><mml:none /><mml:mn>114</mml:mn></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mrow><mml:mi>Î³</mml:mi><mml:mo>,</mml:mo><mml:mi>Cd</mml:mi><mml:mprescripts /><mml:n. Physical Review C, 2016, 93, .	2.9	12
39	Early and late effects of radiochemotherapy on cerebral blood flow in glioblastoma patients measured with non-invasive perfusion MRI. Radiotherapy and Oncology, 2016, 118, 24-28.	0.6	32
40	Correction of quantification errors in pelvic and spinal lesions caused by ignoring higher photon attenuation of bone in [¹⁸F]NaF PET/MR. Medical Physics, 2015, 42, 6468-6476.	3.0	10
41	Combined study of the gamma-ray strength function of114Cd with (n,Î³) and (Î³,Î³â€™) reactions. EPJ Web of Conferences, 2015, 93, 01012.	0.3	1
42	Investigation of dipole strength up to the neutron separation energy atÎ³ELBE. EPJ Web of Conferences, 2015, 93, 01040.	0.3	0
43	On the relation between Kaiserâ€“Bessel blob and tube of response based modelling of the system matrix in iterative PET image reconstruction. Physics in Medicine and Biology, 2015, 60, 4209-4224.	3.0	3
44	Evaluation of in vivo quantification accuracy of the Ingenuityâ€TF PET/MR. Medical Physics, 2015, 42, 5773-5781.	3.0	5
45	Correction of scan time dependence of standard uptake values in oncological PET. EJNMMI Research, 2014, 4, 18.	2.5	46
46	Quantitative assessment of the asphericity of pretherapeutic FDG uptake as an independent predictor of outcome in NSCLC. BMC Cancer, 2014, 14, 896.	2.6	40
47	FDG PET/MR for lymph node staging in head and neck cancer. European Journal of Radiology, 2014, 83, 1163-1168.	2.6	46
48	A volume of intersection approach for on-the-fly system matrix calculation in 3D PET image reconstruction. Physics in Medicine and Biology, 2014, 59, 561-577.	3.0	17
49	Evaluation and automatic correction of metal-implant-induced artifacts in MR-based attenuation correction in whole-body PET/MR imaging. Physics in Medicine and Biology, 2014, 59, 2713-2726.	3.0	21
50	Modeling magnetization transfer effects of Q2TIPS bolus saturation in multi-TI pulsed arterial spin labeling. Magnetic Resonance in Medicine, 2014, 72, 1007-1014.	3.0	2
51	FDG PET/MR for the Assessment of Lymph Node Involvement in Lymphoma. Academic Radiology, 2014, 21, 1314-1319.	2.5	22
52	Nuclear Deformation and Neutron Excess as Competing Effects for Dipole Strength in the Pygmy Region. Physical Review Letters, 2014, 112, 072501.	7.8	43
53	Evaluation of PET quantification accuracy in vivo. Nuklearmedizin - NuclearMedicine, 2014, 53, 67-77.	0.7	7
54	PET/MRI in head and neck cancer: initial experience. European Journal of Nuclear Medicine and Molecular Imaging, 2013, 40, 6-11.	6.4	101

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55	Neutron total cross section measurements of gold and tantalum at the nELBE photoneutron source. European Physical Journal A, 2013, 49, 1.	2.5	10
56	The PET-derived tumor-to-blood standard uptake ratio (SUR) is superior to tumor SUV as a surrogate parameter of the metabolic rate of FDG. EJNMMI Research, 2013, 3, 77.	2.5	96
57	Dual time point based quantification of metabolic uptake rates in 18F-FDG PET. EJNMMI Research, 2013, 3, 16.	2.5	21
58	Electromagnetic dipole strength up to the neutron separation energy from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>196</mml:mn></mml:msup></mml:math>Pt(<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (xmlns:mml="http:/ and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mml:	2.9	24
59	PET/MR for therapy response evaluation in malignant lymphoma: initial experience. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 49-55.	2.0	42
60	Influence and Compensation of Truncation Artifacts in MR-Based Attenuation Correction in PET/MR. IEEE Transactions on Medical Imaging, 2013, 32, 2056-2063.	8.9	37
61	Quantitative accuracy of attenuation correction in the Philips Ingenuity TF whole-body PET/MR system: a direct comparison with transmission-based attenuation correction. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 115-126.	2.0	61
62	Partial volume correction in arterial spin labeling using a Lookâ€Locker sequence. Magnetic Resonance in Medicine, 2013, 70, 1535-1543.	3.0	26
63	Electromagnetic dipole strength of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>136</mml:mn></mml:msup></mml:math>Ba below the neutron separation energy. Physical Review C, 2012, 86, .	2.9	59
64	Dipole strength in78Se below the neutron separation energy from a combined analysis of77Se(n,Î³) and78Se(Î³,Î³â€²) experiments. Physical Review C, 2012, 85, .	2.9	42
65	Investigation of dipole strength at the ELBE accelerator in Dresden-Rossendorf. EPJ Web of Conferences, 2012, 21, 04006.	0.3	0
66	Improved anatomic visualization of a glomus caroticum tumour within the carotic bifurcation with combined 68Ga-DOTATATE PET/MRI. European Journal of Nuclear Medicine and Molecular Imaging, 2012, 39, 1087-1088.	6.4	6
67	ELECTROMAGNETIC STRENGTH IN HEAVY NUCLEI â€“ EXPERIMENTS AND A GLOBAL FIT. International Journal of Modern Physics E, 2011, 20, 431-442.	1.0	9
68	Photon strength function deduced from photon scattering and neutron capture. EPJ Web of Conferences, 2010, 8, 07008.	0.3	1
69	Photon strength in spherical and deformed heavy nuclei. EPJ Web of Conferences, 2010, 8, 02006.	0.3	4