# 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 | STAT2 signaling restricts viral dissemination but drives severe pneumonia in SARS-CoV-2 infected hamsters. Nature Communications, 2020, 11, 5838. | 12.8 | 225 |
| 2 | PET/MRI in head and neck cancer: initial experience. European Journal of Nuclear Medicine and Molecular Imaging, 2013, 40, 6-11. | 6.4 | 101 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | Correction of scan time dependence of standard uptake values in oncological PET. EJNMMI Research, 2014, 4, 18. | 2.5 | 46 |
| 7 | FDG PET/MR for lymph node staging in head and neck cancer. European Journal of Radiology, 2014, 83, 1163-1168. | 2.6 | 46 |
| 8 | Use of Multimodal Imaging and Clinical Biomarkers in Presymptomatic Carriers of <i>C9orf72</i> Repeat Expansion. JAMA Neurology, 2020, 77, 1008. | 9.0 | 45 |
| 9 | Nuclear Deformation and Neutron Excess as Competing Effects for Dipole Strength in the Pygmy Region. Physical Review Letters, 2014, 112, 072501. | 7.8 | 43 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | Quantitative PET in the 2020s: a roadmap. Physics in Medicine and Biology, 2021, 66, 06RM01. | 3.0 | 36 |
| 18 | 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 |

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|---|---|---|---|
| 19 | Approximating anatomically-guided PET reconstruction in image space using a convolutional neural network. NeuroImage, 2021, 224, 117399. | 4.2 | 29 |
| 20 | Partial volume correction in arterial spin labeling using a Lookâ€Locker sequence. Magnetic Resonance in Medicine, 2013, 70, 1535-1543. | 3.0 | 26 |
| 21 | 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 |
| 22 | 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: | 2.9 | 24 |
| 23 | FDG PET/MR for the Assessment of Lymph Node Involvement in Lymphoma. Academic Radiology, 2014, 21, 1314-1319. | 2.5 | 22 |
| 24 | 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 |
| 25 | Dual time point based quantification of metabolic uptake rates in 18F-FDG PET. EJNMMI Research, 2013, 3, 16. | 2.5 | 21 |
| 26 | 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 |
| 27 | FDG PET/MR in initial staging of sarcoma: Initial experience and comparison with conventional imaging. Clinical Imaging, 2017, 42, 126-132. | 1.5 | 21 |
| 28 | 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 |
| 29 | 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 |
| 30 | Artificial Intelligence for PET Image Reconstruction. Journal of Nuclear Medicine, 2021, 62, 1330-1333. | 5.0 | 17 |
| 31 | 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 |
| 32 | 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><m xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Cd</mml:mi><mml:mprescripts /><mml:n. Physical Review C, 2016, 93, . | 2.9 | 12 |
| 33 | 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 |
| 34 | Metal artifact correction strategies in MRI-based attenuation correction in PET/MRI. BJR\|Open, 2019, 1, 20190033. | 0.6 | 11 |
| 35 | Neutron total cross section measurements of gold and tantalum at the nELBE photoneutron source. European Physical Journal A, 2013, 49, 1. | 2.5 | 10 |
| 36 | Correction of quantification errors in pelvic and spinal lesions caused by ignoring higher photon attenuation of bone in [<sup>18</sup>F]NaF PET/MR. Medical Physics, 2015, 42, 6468-6476. | 3.0 | 10 |

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|---|---|---|---|
| 37 | 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 |
| 38 | 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 |
| 39 | ELECTROMAGNETIC STRENGTH IN HEAVY NUCLEI â€" EXPERIMENTS AND A GLOBAL FIT. International Journal of Modern Physics E, 2011, 20, 431-442. | 1.0 | 9 |
| 40 | Synthesis and Kinetic Characterisation of Waterâ€Soluble Fluorogenic Acyl Donors for Transglutaminaseâ€…2. ChemBioChem, 2016, 17, 1263-1281. | 2.6 | 8 |
| 41 | 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 |
| 42 | Evaluation of PET quantification accuracy in vivo. Nuklearmedizin - NuclearMedicine, 2014, 53, 67-77. | 0.7 | 7 |
| 43 | Improved anatomic visualization of a glomus caroticum tumour within the carotid bifurcation with combined 68Ga-DOTATATE PET/MRI. European Journal of Nuclear Medicine and Molecular Imaging, 2012, 39, 1087-1088. | 6.4 | 6 |
| 44 | Data driven time alignment for TOF-PET. , 2017, , . | | 6 |
| 45 | 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 |
| 46 | Evaluation of <i>in vivo</i> quantification accuracy of the Ingenuityâ€TF PET/MR. Medical Physics, 2015, 42, 5773-5781. | 3.0 | 5 |
| 47 | Rigid motion tracking using moments of inertia in TOF-PET brain studies. Physics in Medicine and Biology, 2021, 66, 184001. | 3.0 | 5 |
| 48 | 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 |
| 49 | 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 |
| 50 | Photon strength in spherical and deformed heavy nuclei. EPJ Web of Conferences, 2010, 8, 02006. | 0.3 | 4 |
| 51 | Interobserver variability of image-derived arterial blood SUV in whole-body FDG PET. EJNMMI Research, 2019, 9, 23. | 2.5 | 4 |
| 52 | 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 |
| 53 | Approximating MRI-Based Anatomically Guided PET Reconstruction with a Convolutional Neural Network. , 2018, , . | | 3 |
| 54 | Estimation of crystal timings in TOF-PET. , 2018, , . | | 3 |

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|---|---|---|---|
| 55 | 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 |
| 56 | 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 |
| 57 | Spatially-variant Strength for Anatomical Priors in PET Reconstruction. , 2017, , . | | 2 |
| 58 | 4D CBCT reconstruction with TV regularization on a dynamic software phantom. , 2019, , . | | 2 |
| 59 | 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 |
| 60 | Photon strength function deduced from photon scattering and neutron capture. EPJ Web of Conferences, 2010, 8, 07008. | 0.3 | 1 |
| 61 | 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 |
| 62 | Rigid Motion Tracking using Moments of Inertia in TOF-PET Brain Studies. , 2020, , . | | 1 |
| 63 | Investigation of dipole strength at the ELBE accelerator in Dresden-Rossendorf. EPJ Web of Conferences, 2012, 21, 04006. | 0.3 | 0 |
| 64 | Investigation of dipole strength up to the neutron separation energy atÎ³ELBE. EPJ Web of Conferences, 2015, 93, 01040. | 0.3 | 0 |
| 65 | 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 |
| 66 | An approach for a reconstruction-derived whole-blood arterial input function (RDIF) in PET/MRI. , 2018, , . | | 0 |
| 67 | Maximum Likelihood Estimation of the Geometric Sensitivities in PET. , 2019, , . | | 0 |
| 68 | 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 |
| 69 | Can nuclear imaging accurately detect scar in ischemic cardiac resynchronization therapy candidates?. Nuclear Medicine Communications, 2022, Publish Ahead of Print, . | 1.1 | 0 |