

# Pablo Aguiar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5899721/publications.pdf>

Version: 2024-02-01

96  
papers

1,732  
citations

331670

21  
h-index

330143

37  
g-index

99  
all docs

99  
docs citations

99  
times ranked

2473  
citing authors

#	ARTICLE	IF	CITATIONS
1	STIR: software for tomographic image reconstruction release 2. <i>Physics in Medicine and Biology</i> , 2012, 57, 867-883.	3.0	375
2	Pharmacokinetics of Intravitreal Anti-VEGF Drugs in Age-Related Macular Degeneration. <i>Pharmaceutics</i> , 2019, 11, 365.	4.5	86
3	PET/CT imaging of 3D printed devices in the gastrointestinal tract of rodents. <i>International Journal of Pharmaceutics</i> , 2018, 536, 158-164.	5.2	78
4	A new seipin-associated neurodegenerative syndrome. <i>Journal of Medical Genetics</i> , 2013, 50, 401-409.	3.2	62
5	Texture analysis of high-resolution dedicated breast 18 F-FDG PET images correlates with immunohistochemical factors and subtype of breast cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2018, 45, 196-206.	6.4	46
6	Hypothalamic dopamine signalling regulates brown fat thermogenesis. <i>Nature Metabolism</i> , 2019, 1, 811-829.	11.9	44
7	Prediction of Alzheimer's disease dementia with MRI beyond the short-term: Implications for the design of predictive models. <i>NeuroImage: Clinical</i> , 2019, 23, 101837.	2.7	44
8	3D Printed Tacrolimus Rectal Formulations Ameliorate Colitis in an Experimental Animal Model of Inflammatory Bowel Disease. <i>Biomedicines</i> , 2020, 8, 563.	3.2	43
9	Comparative evaluation of scatter correction in 3D PET using different scatter-level approximations. <i>Annals of Nuclear Medicine</i> , 2011, 25, 643-649.	2.2	39
10	Intensity normalization methods in brain FDG-PET quantification. <i>NeuroImage</i> , 2020, 222, 117229.	4.2	39
11	Quantification of dopaminergic neurotransmission SPECT studies with 123I-labelled radioligands. A comparison between different imaging systems and data acquisition protocols using Monte Carlo simulation. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2008, 35, 1334-1342.	6.4	38
12	White matter hyperintensities are associated with subthreshold amyloid accumulation. <i>NeuroImage</i> , 2020, 218, 116944.	4.2	36
13	Geometrical and Monte Carlo projectors in 3D PET reconstruction. <i>Medical Physics</i> , 2010, 37, 5691-5702.	3.0	35
14	<i>Porphyromonas gingivalis</i> lipopolysaccharide-induced periodontitis and serum amyloid-beta peptides. <i>Archives of Oral Biology</i> , 2019, 99, 120-125.	1.8	35
15	A Systematic Review of PET Textural Analysis and Radiomics in Cancer. <i>Diagnostics</i> , 2021, 11, 380.	2.6	34
16	Correction for FDG PET dose extravasations: Monte Carlo validation and quantitative evaluation of patient studies. <i>Medical Physics</i> , 2014, 41, 052502.	3.0	32
17	POU1F1 transcription factor induces metabolic reprogramming and breast cancer progression via LDHA regulation. <i>Oncogene</i> , 2021, 40, 2725-2740.	5.9	32
18	In vivo eye surface residence determination by high-resolution scintigraphy of a novel ion-sensitive hydrogel based on gellan gum and kappa-carrageenan. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 114, 317-323.	4.3	26

#	ARTICLE	IF	CITATIONS
19	Does percutaneous nephrolithotomy and its outcomes have an impact on renal function? Quantitative analysis using SPECT-CT DMSA. <i>Urolithiasis</i> , 2014, 42, 461-467.	2.0	25
20	Intravitreal anti-VEGF drug delivery systems for age-related macular degeneration. <i>International Journal of Pharmaceutics</i> , 2020, 573, 118767.	5.2	25
21	Integration of advanced 3D SPECT modeling into the open-source STIR framework. <i>Medical Physics</i> , 2013, 40, 092502.	3.0	22
22	FocusDET, A New Toolbox for SISCOM Analysis. Evaluation of the Registration Accuracy Using Monte Carlo Simulation. <i>Neuroinformatics</i> , 2013, 11, 77-89.	2.8	22
23	Staging the cognitive continuum in prodromal Alzheimer's disease with episodic memory. <i>Neurobiology of Aging</i> , 2019, 84, 1-8.	3.1	22
24	Gastrointestinal Tracking and Gastric Emptying of Coated Capsules in Rats with or without Sedation Using CT imaging. <i>Pharmaceutics</i> , 2020, 12, 81.	4.5	20
25	A novel sedimentological method based on CT-scanning: Use for tomographic characterization of the Galicia Interior Basin. <i>Sedimentary Geology</i> , 2015, 321, 123-138.	2.1	19
26	Analytical, experimental, and Monte Carlo system response matrix for pinhole SPECT reconstruction. <i>Medical Physics</i> , 2014, 41, 032501.	3.0	18
27	Impact and correction of the bladder uptake on <sup>18</sup> F-FCH PET quantification: a simulation study using the XCAT2 phantom. <i>Physics in Medicine and Biology</i> , 2016, 61, 758-773.	3.0	17
28	Development and Characterization of a Tacrolimus/Hydroxypropyl- $\beta$ -Cyclodextrin Eye Drop. <i>Pharmaceutics</i> , 2021, 13, 149.	4.5	17
29	PET and MRI detection of early and progressive neurodegeneration in spinocerebellar ataxia type 36. <i>Movement Disorders</i> , 2017, 32, 264-273.	3.9	16
30	Preclinical characterization and clinical evaluation of tacrolimus eye drops. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 120, 152-161.	4.0	16
31	Evaluation of the therapeutic activity of melatonin and resveratrol in Inflammatory Bowel Disease: A longitudinal PET/CT study in an animal model. <i>International Journal of Pharmaceutics</i> , 2019, 572, 118713.	5.2	16
32	Longitudinal PET/CT evaluation of TNBS-induced inflammatory bowel disease rat model. <i>International Journal of Pharmaceutics</i> , 2018, 549, 335-342.	5.2	15
33	Periodontitis and vascular inflammatory biomarkers: an experimental in vivo study in rats. <i>Odontology / the Society of the Nippon Dental University</i> , 2020, 108, 202-212.	1.9	14
34	Assessment of SPM in Perfusion Brain SPECT Studies. A Numerical Simulation Study Using Bootstrap Resampling Methods. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 1849-1853.	4.2	11
35	<i>In Vivo</i> Induction of P-Glycoprotein Function can be Measured with [ <sup>18</sup> F]MC225 and PET. <i>Molecular Pharmaceutics</i> , 2021, 18, 3073-3085.	4.6	11
36	<sup>18</sup> F-florbetapir PET as a marker of myelin integrity across the Alzheimer's disease spectrum. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 1242-1253.	6.4	11

#	ARTICLE	IF	CITATIONS
37	Scatter Simulation Including Double Scatter. , 0, , .		10
38	Impact of benzodiazepines on brain FDG-PET quantification after single-dose and chronic administration in rats. Nuclear Medicine and Biology, 2016, 43, 827-834.	0.6	10
39	Ocular Biodistribution Studies Using Molecular Imaging. Pharmaceutics, 2019, 11, 237.	4.5	10
40	SIMPETâ€”An open online platform for the Monte Carlo simulation of realistic brain PET data. Validation for <sup>18</sup>Fâ€”FDG scans. Medical Physics, 2021, 48, 2482-2493.	3.0	10
41	Biodistribution of 68/67Ga-Radiolabeled Sphingolipid Nanoemulsions by PET and SPECT Imaging. International Journal of Nanomedicine, 2021, Volume 16, 5923-5935.	6.7	10
42	Effect of anatomical variability, reconstruction algorithms and scattered photons on the SPM output of brain PET studies. NeuroImage, 2008, 39, 1121-1128.	4.2	9
43	Comparison of the Performance Evaluation of the MicroPET R4 Scanner According to NEMA Standards NU 4-2008 and NU 2-2001. IEEE Transactions on Nuclear Science, 2012, 59, 1879-1886.	2.0	9
44	A feasibility study on the use of arrays of discrete SiPMs for MR compatible LYSO readout using Monte Carlo simulation. Journal of Instrumentation, 2012, 7, P06002-P06002.	1.2	9
45	Modelling radiation-induced cell death and tumour re-oxygenation: local versus global and instant versus delayed cell death. Physics in Medicine and Biology, 2016, 61, 1204-1216.	3.0	9
46	Association of metreleptin treatment and dietary intervention with neurological outcomes in Celiaâ€™s encephalopathy. European Journal of Human Genetics, 2018, 26, 396-406.	2.8	9
47	Optimization of the reconstruction parameters in [ <sup>123</sup> I]FP-CIT SPECT. Physics in Medicine and Biology, 2018, 63, 085009.	3.0	9
48	Positron Emission Tomography for the Development and Characterization of Corneal Permanence of Ophthalmic Pharmaceutical Formulations. , 2017, 58, 772-780.		9
49	Spill-in counts in the quantification of 18F-florbetapir on AÎ²-negative subjects: the effect of including white matter in the reference region. EJNMMI Physics, 2019, 6, 27.	2.7	9
50	Testâ€”Retest Repeatability of [18F]MC225-PET in Rodents: A Tracer for Imaging of P-gp Function. ACS Chemical Neuroscience, 2020, 11, 648-658.	3.5	8
51	Is FDG-PET texture analysis related to intratumor biological heterogeneity in lung cancer?. European Radiology, 2021, 31, 4156-4165.	4.5	8
52	Development and Characterization of Inhaled Ethanol as a Novel Pharmacological Strategy Currently Evaluated in a Phase II Clinical Trial for Early-Stage SARS-CoV-2 Infection. Pharmaceutics, 2021, 13, 342.	4.5	8
53	Simulated FDG-PET studies for the assessment of SUV quantification methods. Revista Espanola De Medicina Nuclear E Imagen Molecular, 2015, 34, 13-18.	0.0	7
54	Vaginal residence and pharmacokinetic preclinical study of topical vaginal mucoadhesive W/S emulsions containing ciprofloxacin. International Journal of Pharmaceutics, 2019, 554, 276-283.	5.2	7

#	ARTICLE	IF	CITATIONS
55	PET study of ocular and blood pharmacokinetics of intravitreal bevacizumab and aflibercept in rats. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 154, 330-337.	4.3	7
56	Anti-Inflammatory Effect of Tacrolimus/Hydroxypropyl- $\beta$ -Cyclodextrin Eye Drops in an Endotoxin-Induced Uveitis Model. Pharmaceutics, 2021, 13, 1737.	4.5	7
57	Preclinical PET Study of Intravitreal Injections. , 2017, 58, 2843-2851.		7
58	Dose-response assessment of cerebral P-glycoprotein inhibition in vivo with [18F]MC225 and PET. Journal of Controlled Release, 2022, 347, 500-507.	9.9	7
59	Preliminary Experience with Small Animal SPECT Imaging on Clinical Gamma Cameras. BioMed Research International, 2014, 2014, 1-7.	1.9	6
60	Improved image quality in pinhole SPECT by accurate modeling of the point spread function in low magnification systems. Medical Physics, 2015, 42, 703-714.	3.0	6
61	Celia <sup>TM</sup> s encephalopathy and c.974dupG in BSL2 gene: a hidden change in a known variant. Neurogenetics, 2019, 20, 73-82.	1.4	6
62	Comparison of NEMA NU 4-2008 vs NEMA NU 2-2001 for the performance evaluation of the microPET R4 system. , 2009, , .		5
63	Geant4-GATE Simulation of a Large Plastic Scintillator for Muon Radiography. IEEE Transactions on Nuclear Science, 2015, 62, 1233-1238.	2.0	5
64	Validation of semi-quantitative methods for DAT SPECT: influence of anatomical variability and partial volume effect. Physics in Medicine and Biology, 2015, 60, 5925-5938.	3.0	5
65	Cell Membrane CD44v6 Levels in Squamous Cell Carcinoma of the Lung: Association with High Cellular Proliferation and High Concentrations of EGFR and CD44v5. International Journal of Molecular Sciences, 2015, 16, 4372-4378.	4.1	5
66	Iterative Structural and Functional Synergistic Resolution Recovery (iSFS-RR) Applied to PET-MR Images in Epilepsy. IEEE Transactions on Nuclear Science, 2016, 63, 2434-2442.	2.0	5
67	A method for estimating DMSA SPECT renal function for assessing the effect of percutaneous nephrolithotripsy on the treated pole. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2016, 60, 154-62.	0.7	5
68	Positive immunohistochemical expression of bcl-2 in hormone-independent breast carcinomas is associated with a greater lymph node involvement and poor outcome. Medical Oncology, 2014, 31, 105.	2.5	4
69	Recombination in liquid filled ionisation chambers with multiple charge carrier species: Theoretical and numerical results. Radiation Physics and Chemistry, 2014, 103, 172-177.	2.8	4
70	Evaluation and optimization of occupational eye lens dosimetry during positron emission tomography (PET) procedures. Journal of Radiological Protection, 2016, 36, 299-308.	1.1	4
71	[ <sup>18</sup> F]-FMISO PET/MRI Imaging Shows Ischemic Tissue around Hematoma in Intracerebral Hemorrhage. Molecular Pharmaceutics, 2020, 17, 4667-4675.	4.6	4
72	Characterization of low energy Lu background on continuous LYSO blocks. , 2010, , .		3

#	ARTICLE	IF	CITATIONS
73	Geant4-GATE simulation of a large plastic scintillator for muon radiography. , 2013, , .		3
74	The performance of a hybrid analytical-Monte Carlo system response matrix in pinhole SPECT reconstruction. Physics in Medicine and Biology, 2014, 59, 7573-7585.	3.0	3
75	A portable device for small animal SPECT imaging in clinical gamma-cameras. Journal of Instrumentation, 2014, 9, P07004-P07004.	1.2	3
76	Monte Carlo simulations versus experimental measurements in a small animal PET system. A comparison in the NEMA NU 4-2008 framework. Physics in Medicine and Biology, 2015, 60, 151-162.	3.0	3
77	Impact of spill-in counts from off-target regions on [18F]Flortaucipir PET quantification. NeuroImage, 2022, 259, 119396.	4.2	3
78	Parametrization of SiPM dynamic range contribution to energy resolution of scintillation light readout. , 2008, , .		2
79	Analytical Study of the Effect of the System Geometry on Photon Sensitivity and Depth of Interaction of Positron Emission Mammography. Journal of Oncology, 2012, 2012, 1-7.	1.3	2
80	Substraction Acetazolamide SPECT Co-registered to MRI in Moyamoya Disease. Clinical Nuclear Medicine, 2014, 39, 399-401.	1.3	2
81	InÂvivo quantification of renal function in mice using clinical gamma cameras. Physica Medica, 2015, 31, 242-247.	0.7	2
82	Recombination in liquidâ€filled ionization chambers beyond the Boag limit. Medical Physics, 2016, 43, 4142-4149.	3.0	2
83	A numerical model of initial recombination for high-LET irradiation: Application to liquid-filled ionization chambers. Radiation Physics and Chemistry, 2016, 119, 173-179.	2.8	2
84	Design simulations of a LSO crystal block detector module for dual PET/SPECT systems. , 2008, , .		1
85	Familial hemiplegic migraine with prolonged global aura: Follow-up findings of subtraction ictal SPECT co-registered to MRI (SISCOM). Cephalalgia, 2012, 32, 1013-1014.	3.9	1
86	Clinicopathological characteristics of infiltrating lobular breast carcinoma in elderly women: Preliminary results. Molecular and Clinical Oncology, 2015, 3, 1337-1340.	1.0	1
87	Characterization of tetramethylsilane for liquid-filled ionization dosimeters: Ion mobilities, free-ion yield and general recombination. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 785, 170-174.	1.6	1
88	Impact of muscular uptake and statistical noise on tumor quantification based on simulated FDG-PET studies. Radiation Physics and Chemistry, 2017, 131, 28-34.	2.8	1
89	Imaging Biomarkers in Translational Small Animal Models. Contrast Media and Molecular Imaging, 2019, 2019, 1-2.	0.8	1
90	Prolonged Migraine Stuttering Aura: Structural, Functional, and Video Neuroimaging Study of an Atypical Migraine Aura. A Case Report. Headache, 2020, 60, 776-780.	3.9	1

#	ARTICLE	IF	CITATIONS
91	Histological grade (HG) in invasive ductal carcinomas of the breast of less than 1 cm: clinical and biological associations during progression from HG1 to HG3. <i>Anticancer Research</i> , 2015, 35, 569-73.	1.1	1
92	Monte Carlo optimization of SiPM readout configurations for continuous LYSO blocks. , 2010, , .		0
93	Validation of a GEANT4 simulation model for pinhole SPECT including calibration parameters. , 2011, , .		0
94	CA15.3 Serum Concentrations in Older Women with Infiltrating Ductal Carcinomas of the Breast. <i>International Journal of Molecular Sciences</i> , 2014, 15, 19870-19876.	4.1	0
95	Feasibility of Longitudinal Brain PET with Real-Time Arterial Input Function in Rats. <i>Molecular Imaging and Biology</i> , 2021, 23, 350-360.	2.6	0
96	Functional Data Analysis for Imaging Mean Function Estimation: Computing Times and Parameter Selection. <i>Computers</i> , 2022, 11, 91.	3.3	0