

# Tomasz Bednarski

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2012570/publications.pdf>

Version: 2024-02-01

30  
papers

464  
citations

840585

11  
h-index

713332

21  
g-index

30  
all docs

30  
docs citations

30  
times ranked

520  
citing authors

#	ARTICLE	IF	CITATIONS
1	Time resolution of the plastic scintillator strips with matrix photomultiplier readout for J-PET tomograph. <i>Physics in Medicine and Biology</i> , 2016, 61, 2025-2047.	1.6	99
2	A feasibility study of ortho-positronium decays measurement with the J-PET scanner based on plastic scintillators. <i>European Physical Journal C</i> , 2016, 76, 445.	1.4	52
3	Expression of lipogenic genes is upregulated in the heart with exercise training-induced but not pressure overload-induced left ventricular hypertrophy. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 304, E1348-E1358.	1.8	47
4	Metabolic reprogramming of the heart through stearyl-CoA desaturase. <i>Progress in Lipid Research</i> , 2015, 57, 1-12.	5.3	42
5	A novel method based solely on field programmable gate array (FPGA) units enabling measurement of time and charge of analog signals in positron emission tomography (PET). <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 41-45.	1.0	31
6	Stearyl-CoA desaturase 1 deficiency reduces lipid accumulation in the heart by activating lipolysis independently of peroxisome proliferator-activated receptor $\alpha$ . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 2029-2037.	1.2	30
7	Trigger-less and reconfigurable data acquisition system for positron emission tomography. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 37-40.	1.0	20
8	Plastic scintillators for positron emission tomography obtained by the bulk polymerization method. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 27-31.	1.0	19
9	Multitissue $2\text{H}/13\text{C}$ flux analysis reveals reciprocal upregulation of renal gluconeogenesis in hepatic PEPCK-C $\alpha$ knockout mice. <i>JCI Insight</i> , 2021, 6, .	2.3	18
10	3D PET image reconstruction based on the maximum likelihood estimation method (MLEM) algorithm. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 1-7.	1.0	13
11	Vitamin E does not prevent Western diet-induced NASH progression and increases metabolic flux dysregulation in mice. <i>Journal of Lipid Research</i> , 2020, 61, 707-721.	2.0	12
12	In vivo $2\text{H}/13\text{C}$ flux analysis in metabolism research. <i>Current Opinion in Biotechnology</i> , 2021, 71, 1-8.	3.3	12
13	A Pilot Study of the Novel J-PET Plastic Scintillator with 2-(4-styrylphenyl)benzoxazole as a Wavelength Shifter. <i>Acta Physica Polonica A</i> , 2015, 127, 1487-1490.	0.2	11
14	Synchronization and Calibration of the 24-Modules J-PET Prototype With 300-mm Axial Field of View. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10.	2.4	8
15	J-PET analysis framework for the prototype TOF-PET detector. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 33-36.	1.0	7
16	Regulation of cardiac metabolism and function by lipogenic factors. <i>Postepy Higieny I Medycyny Doswiadczalnej</i> , 2016, 70, 644-653.	0.1	6
17	Simulations of $\hat{1}^3$ quanta scattering in a single module of the J-PET detector. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 71-77.	1.0	5
18	Application of WLS strips for position determination in strip PET tomograph based on plastic scintillators. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 59-63.	1.0	5

#	ARTICLE	IF	CITATIONS
19	Calibration of photomultipliers gain used in the J-PET detector. Bio-Algorithms and Med-Systems, 2014, 10, 13-17.	1.0	5
20	Database and data structure for the novel TOF-PET detector developed for the J-PET project. Bio-Algorithms and Med-Systems, 2014, 10, 79-83.	1.0	4
21	Computing support for advanced medical data analysis and imaging. Bio-Algorithms and Med-Systems, 2014, 10, 53-58.	1.0	3
22	Determination of the map of efficiency of the Jagiellonian Positron Emission Tomograph (J-PET) detector with the GATE package. Bio-Algorithms and Med-Systems, 2014, 10, 85-90.	1.0	3
23	A novel method for calibration and monitoring of time synchronization of TOF-PET scanners by means of cosmic rays. Bio-Algorithms and Med-Systems, 2014, 10, 19-25.	1.0	3
24	J-PET: A Novel TOF-PET Detector based on Plastic Scintillators. , 2016, , .		3
25	Application of the compress sensing theory for improvement of the TOF resolution in a novel J-PET instrument. Nukleonika, 2016, 61, 35-39.	0.3	3
26	List-mode reconstruction in 2D strip PET. Bio-Algorithms and Med-Systems, 2014, 10, 9-12.	1.0	2
27	A novel TOF-PET detector based on plastic scintillators. , 2015, , .		1
28	285-LB: Short-Term Effect of Saturated and Monounsaturated Fatty Acids on Hepatic Energy Metabolism. Diabetes, 2019, 68, .	0.3	0
29	74-OR: The Effect of SERCA2 Activation on Liver Metabolism and Diet-Induced Steatohepatitis in Mice. Diabetes, 2020, 69, 74-OR.	0.3	0
30	The effect of SERCA2 activation on liver metabolism during acute lipotoxicity in vivo. FASEB Journal, 2020, 34, 1-1.	0.2	0