Yong Du

List of Publications by Year
in descending order

76 papers	2,118 citations	218381 26 h-index	253896 43 g-index
81 all docs	81 docs citations	81 times ranked	2443 citing authors

#	Article	IF	Citations
1	PET imaging of microglia by targeting macrophage colony-stimulating factor 1 receptor (CSF1R). Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1686-1691.	3.3	140
2	Development and evaluation of an improved quantitative ^{90}Y bremsstrahlung SPECT method. Medical Physics, 2012, 39, 2346-2358.	1.6	118
3	A Monte Carlo and physical phantom evaluation of quantitative In-111 SPECT. Physics in Medicine and Biology, 2005, 50, 4169-4185.	1.6	106
4	Partial volume effect compensation for quantitative brain SPECT imaging. IEEE Transactions on Medical Imaging, 2005, 24, 969-976.	5.4	103
5	Characterization of uptake of the new PET imaging compound 18F-fluorobenzyl triphenyl phosphonium in dog myocardium. Journal of Nuclear Medicine, 2006, 47, 1359-66.	2.8	92
6	Imaging CAR T cell therapy with PSMA-targeted positron emission tomography. Science Advances, 2019, 5, eaaw5096.	4.7	87
7	Assessment of Severity of Coronary Artery Stenosis in a Canine Model Using the PET Agent 18F-Fluorobenzyl Triphenyl Phosphonium: Comparison with 99mTc-Tetrofosmin. Journal of Nuclear Medicine, 2007, 48, 1021-1030.	2.8	86
8	A primary method for determination of optical parameters of turbid samples and application to intralipid between 550 and 1630nm. Optics Express, 2006, 14, 7420.	1.7	78
9	Model-based compensation for quantitative123I brain SPECT imaging. Physics in Medicine and Biology, 2006, 51, 1269-1282.	1.6	65
10	Microglial activation is inversely associated with cognition in individuals living with HIV on effective antiretroviral therapy. Aids, 2018, 32, 1661-1667.	1.0	60
11	Lung dosimetry for radioiodine treatment planning in the case of diffuse lung metastases. Journal of Nuclear Medicine, 2006, 47, 1985-94.	2.8	53
12	Microwave Imaging by Deep Learning Network: Feasibility and Training Method. IEEE Transactions on Antennas and Propagation, 2020, 68, 5626-5635.	3.1	52
13	A Distinct Advantage to Intraarterial Delivery of ^{89}Zr-Bevacizumab in PET Imaging of Mice With and Without Osmotic Opening of the Blood–Brain Barrier. Journal of Nuclear Medicine, 2019, 60, 617-622.	2.8	49
14	Comparison of Residence Time Estimation Methods for Radioimmunotherapy Dosimetry and Treatment Planning—Monte Carlo Simulation Studies. IEEE Transactions on Medical Imaging, 2008, 27, 521-530.	5.4	48
15	Evaluation of quantitative imaging methods for organ activity and residence time estimation using a population of phantoms having realistic variations in anatomy and uptake. Medical Physics, 2009, 36, 612-619.	1.6	46
16	Imaging glial activation in patients with post-treatment Lyme disease symptoms: a pilot study using [11C]DPA-713 PET. Journal of Neuroinflammation, 2018, 15, 346.	3.1	46
17	Combination of MCNP and SimSET for Monte Carlo simulation of SPECT with medium- and high-energy photons. IEEE Transactions on Nuclear Science, 2002, 49, 668-674.	1.2	45
18	Isoosmolar Enemas Demonstrate Preferential Gastrointestinal Distribution, Safety, and Acceptability Compared with Hyperosmolar and Hypoosmolar Enemas as a Potential Delivery Vehicle for Rectal Microbicides. AIDS Research and Human Retroviruses, 2013, 29, 1487-1495.	0.5	39

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19	Design of a digital phantom population for myocardial perfusion SPECT imaging research. Physics in Medicine and Biology, 2014, 59, 2935-2953.	1.6	35
20	Distribution of Cell-Free and Cell-Associated HIV Surrogates in the Colon After Simulated Receptive Anal Intercourse in Men Who Have Sex With Men. Journal of Acquired Immune Deficiency Syndromes (1999), 2012, 59, 10-17.	0.9	34
21	Model–based crosstalk compensation for simultaneous dual–isotope brain SPECT imaging. Medical Physics, 2007, 34, 3530-3543.	1.6	31
22	Quantitative evaluation of simultaneous reconstruction with model–based crosstalk compensation for dual–isotope simultaneous acquisition brain SPECT. Medical Physics, 2009, 36, 2021-2033.	1.6	30
23	A method for energy window optimization for quantitative tasks that includes the effects of model-mismatch on bias: application to Y-90 bremsstrahlung SPECT imaging. Physics in Medicine and Biology, 2012, 57, 3711-3725.	1.6	29
24	Distribution of Cell-Free and Cell-Associated HIV Surrogates in the Female Genital Tract After Simulated Vaginal Intercourse. Journal of Infectious Diseases, 2012, 205, 725-732.	1.9	28
25	The distribution of the alpha7 nicotinic acetylcholine receptor in healthy aging: An in vivo positron emission tomography study with [18F]ASEM. NeuroImage, 2018, 165, 118-124.	2.1	27
26	Therapeutic potential of 90Y- and 131I-labeled anti-CD20 monoclonal antibody in treating non-Hodgkin's lymphoma with pulmonary involvement: a Monte Carlo-based dosimetric analysis. Journal of Nuclear Medicine, 2007, 48, 150-7.	2.8	27
27	Comparison of organ residence time estimation methods for radioimmunotherapy dosimetry and treatment planning—patient studies. Medical Physics, 2009, 36, 1595-1601.	1.6	26
28	A three-stage, deep learning, ensemble approach for prognosis in patients with Parkinson's disease. EJNMMI Research, 2021, 11, 52.	1.1	25
29	Development and evaluation of a model-based downscatter compensation method for quantitative I-131 SPECT. Medical Physics, 2011, 38, 3193-3204.	1.6	24
30	High Availability of the $α$7-Nicotinic Acetylcholine Receptor in Brains of Individuals with Mild Cognitive Impairment: A Pilot Study Using ^{18}F-ASEM PET. Journal of Nuclear Medicine, 2020, 61, 423-426.	2.8	22
31	Imaging of Fibroblast Activation Protein in Cancer Xenografts Using Novel (4-Quinolinoyl)-glycyl-2-cyanopyrrolidine-Based Small Molecules. Journal of Medicinal Chemistry, 2021, 64, 4059-4070.	2.9	22
32	Antibody-induced intracellular signaling works in combination with radiation to eradicate lymphoma in radioimmunotherapy. Blood, 2004, 103, 1485-1494.	0.6	21
33	Validation and Evaluation of Model-Based Crosstalk Compensation Method in Simultaneous ^{99m}Tc Stress and ^{201}Tl Rest Myocardial Perfusion SPECT. IEEE Transactions on Nuclear Science, 2004, 51, 72-79.	1.2	20
34	Quantification of the spatial distribution of rectally applied surrogates for microbicide and semen in colon with SPECT and magnetic resonance imaging. British Journal of Clinical Pharmacology, 2012, 74, 1013-1022.	1.1	20
35	Evaluation of a Multi-pinhole Collimator for Imaging Small Animals with Different Sizes. Molecular Imaging and Biology, 2012, 14, 60-69.	1.3	20
36	A Phase 1 Randomized, Blinded Comparison of the Pharmacokinetics and Colonic Distribution of Three Candidate Rectal Microbicide Formulations of Tenofovir 1% Gel with Simulated Unprotected Sex (CHARM-02). AIDS Research and Human Retroviruses, 2015, 31, 1098-1108.	0.5	20

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37	A Learned Reconstruction Network for SPECT Imaging. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 26-34.	2.7	20
38	Use of ^{18}F-ASEM PET to Determine the Availability of the α7-Nicotinic Acetylcholine Receptor in Recent-Onset Psychosis. Journal of Nuclear Medicine, 2019, 60, 241-243.	2.8	19
39	Use of quantitative SPECT/CT reconstruction in 99mTc-sestamibi imaging of patients with renal masses. Annals of Nuclear Medicine, 2018, 32, 87-93.	1.2	17
40	Development and Validation of a Monte Carlo Simulation Tool for Multi-Pinhole SPECT. Molecular Imaging and Biology, 2010, 12, 295-304.	1.3	15
41	Compensation for spill-in and spill-out partial volume effects in cardiac PET imaging. Journal of Nuclear Cardiology, 2013, 20, 84-98.	1.4	15
42	Simultaneous Tc-99m/I-123 dual-radionuclide myocardial perfusion/innervation imaging using Siemens IQ-SPECT with SMARTZOOM collimator. Physics in Medicine and Biology, 2014, 59, 2813-2828.	1.6	15
43	^{18}F-XTRA PET for Enhanced Imaging of the Extrathalamic α4β2 Nicotinic Acetylcholine Receptor. Journal of Nuclear Medicine, 2018, 59, 1603-1608.	2.8	15
44	Generating anthropomorphic phantoms using fully unsupervised deformable image registration with convolutional neural networks. Medical Physics, 2020, 47, 6366-6380.	1.6	15
45	Imaging and dosimetry for alpha-particle emitter radiopharmaceutical therapy: improving radiopharmaceutical therapy by looking into the black box. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 49, 18-29.	3.3	15
46	Osteopontin/secreted phosphoprotein-1 behaves as a molecular brake regulating the neuroinflammatory response to chronic viral infection. Journal of Neuroinflammation, 2020, 17, 273.	3.1	14
47	SPECTnet: a deep learning neural network for SPECT image reconstruction. Annals of Translational Medicine, 2021, 9, 819-819.	0.7	14
48	Fast method for inverse determination of optical parameters from two measured signals. Optics Letters, 2013, 38, 2095.	1.7	12
49	Simultaneous Evaluation of Safety, Acceptability, Pericoital Kinetics, and *Ex Vivo* Pharmacodynamics Comparing Four Rectal Microbicide Vehicle Candidates. AIDS Research and Human Retroviruses, 2015, 31, 1089-1097.	0.5	12
50	Nonlinear tube-fitting for the analysis of anatomical and functional structures. Annals of Applied Statistics, 2011, 5, 337-363.	0.5	11
51	Evaluation of simultaneous 201Tl/99mTc dual-isotope cardiac SPECT imaging with model-based crosstalk compensation using canine studies. Journal of Nuclear Cardiology, 2014, 21, 329-340.	1.4	11
52	Artificial intelligence in single photon emission computed tomography (SPECT) imaging: a narrative review. Annals of Translational Medicine, 2021, 9, 820-820.	0.7	11
53	Learning fuzzy clustering for SPECT/CT segmentation via convolutional neural networks. Medical Physics, 2021, 48, 3860-3877.	1.6	11
54	Microscopic Intratumoral Dosimetry of Radiolabeled Antibodies Is a Critical Determinant of Successful Radioimmunotherapy in B-Cell Lymphoma. Cancer Research, 2007, 67, 1335-1343.	0.4	10

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55	PET imaging of soluble epoxide hydrolase in non-human primate brain with [18F]FNDP. EJNMMI Research, 2020, 10, 67.	1.1	10
56	Collimator optimization in myocardial perfusion SPECT using the ideal observer and realistic background variability for lesion detection and joint detection and localization tasks. Physics in Medicine and Biology, 2016, 61, 2048-2066.	1.6	9
57	Optimization of acquisition energy windows in simultaneous /sup 99m/Tc//sup 123/I brain SPECT. IEEE Transactions on Nuclear Science, 2003, 50, 1556-1561.	1.2	8
58	A projection image database to investigate factors affecting image quality in weight-based dosing: application to pediatric renal SPECT. Physics in Medicine and Biology, 2018, 63, 145004.	1.6	8
59	Model mismatch and the ideal observer in SPECT. , 2013, , .		7
60	Current pediatric administered activity guidelines for ^{99m}Tcâ€DMSA SPECT based on patient weight do not provide the same taskâ€based image quality. Medical Physics, 2019, 46, 4847-4856.	1.6	7
61	Visual and Semiquantitative Accuracy in Clinical Baseline 123I-Ioflupane SPECT/CT Imaging. Clinical Nuclear Medicine, 2019, 44, 1-3.	0.7	6
62	First-in-human neuroimaging of soluble epoxide hydrolase using [18F]FNDP PET. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 3122-3128.	3.3	6
63	Impact of aging on semiquantitative uptake parameters in normal rated clinical baseline [123I]Ioflupane single photon emission computed tomography/computed tomography. Nuclear Medicine Communications, 2019, 40, 1001-1004.	0.5	5
64	Comparison of CNN-based Approaches for Detection of COVID-19 on Chest X-ray Images. , 2020, , .		5
65	Preliminary evaluation of alpha-emitting radioembolization in animal models of hepatocellular carcinoma. PLoS ONE, 2022, 17, e0261982.	1.1	5
66	Anti-GD2 antibody for radiopharmaceutical imaging of osteosarcoma. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 4382-4393.	3.3	4
67	Optimization and evaluation of reconstruction-based compensation methods and reconstruction parameters for Tc-99m MIBI parathyroid SPECT. Physica Medica, 2015, 31, 159-166.	0.4	3
68	Threeâ€dimensional regionsâ€ofâ€interestâ€"based intraâ€operative fourâ€dimensional soft tissue perfusion imaging using a standard xâ€ray system with no gantry rotation: A simulation study for a proof of concept. Medical Physics, 2020, 47, 6087-6102.	1.6	2
69	Single-Photon Emission Computed Tomography: Principles and Applications. , 2019, , 493-506.		1
70	In vivo localization and quantification of mitochondrial dysfunction using PET imaging of the novel voltage sensor 18F-FBnTP. Mitochondrion, 2012, 12, 569.	1.6	0
71	T246. Low Availability of the Î±7 Nicotinic Acetylcholine Receptor Distinguishes Recent Onset of Non-Affective Psychosis From Affective Psychosis: A Study Using [18F]ASEM PET. Biological Psychiatry, 2018, 83, S224-S225.	0.7	0
72	6.1 STUDY OF ALTERED NEUROIMMUNITY IN PSYCHOSIS USING PET-BASED IMAGING OF THE TRANSLOCATOR PROTEIN 18 KDA: PROMISES, PITFALLS, AND FUTURE DIRECTIONS. Schizophrenia Bulletin, 2018, 44, S8-S8.	2.3	0

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73	14.3 OPPORTUNITIES IN PRECISION PSYCHIATRY USING PET-BASED NEUROIMAGING. Schizophrenia Bulletin, 2019, 45, S111-S112.	2.3	0
74	23.4 PET-BASED PRECISION NEUROIMAGING OF THE ALPHA7 NICOTINIC ACETYLCHOLINE RECEPTOR IN PATIENTS WITH RECENT ONSET OF PSYCHOSIS. Schizophrenia Bulletin, 2019, 45, S127-S127.	2.3	0
75	Central Nervous System Molecular Imaging. , 2021, , 1261-1285.		0
76	Abstract 1395: Humanized GD2 antibody for targeted radiopharmaceutical therapy of human and canine osteosarcoma. , 2021, , .		0