Yong Du

List of Publications by Year in descending order

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Version: 2024-02-01

76	2,118	218381	253896
papers	citations	26 h-index	43 g-index

81	81	81	2443
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preliminary evaluation of alpha-emitting radioembolization in animal models of hepatocellular carcinoma. PLoS ONE, 2022, 17, e0261982.	1.1	5
2	Anti-GD2 antibody for radiopharmaceutical imaging of osteosarcoma. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 4382-4393.	3.3	4
3	Central Nervous System Molecular Imaging. , 2021, , 1261-1285.		0
4	A Learned Reconstruction Network for SPECT Imaging. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 26-34.	2.7	20
5	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
6	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
7	Artificial intelligence in single photon emission computed tomography (SPECT) imaging: a narrative review. Annals of Translational Medicine, 2021, 9, 820-820.	0.7	11
8	SPECTnet: a deep learning neural network for SPECT image reconstruction. Annals of Translational Medicine, 2021, 9, 819-819.	0.7	14
9	Learning fuzzy clustering for SPECT/CT segmentation via convolutional neural networks. Medical Physics, 2021, 48, 3860-3877.	1.6	11
10	A three-stage, deep learning, ensemble approach for prognosis in patients with Parkinsonâ€™s disease. EJNMMI Research, 2021, 11, 52.	1.1	25
11	Abstract 1395: Humanized GD2 antibody for targeted radiopharmaceutical therapy of human and canine osteosarcoma. , 2021, , .		0
12	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
13	High Availability of the Î±7-Nicotinic Acetylcholine Receptor in Brains of Individuals with Mild Cognitive Impairment: A Pilot Study Using ¹⁸F-ASEM PET. Journal of Nuclear Medicine, 2020, 61, 423-426.	2.8	22
14	Generating anthropomorphic phantoms using fully unsupervised deformable image registration with convolutional neural networks. Medical Physics, 2020, 47, 6366-6380.	1.6	15
15	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
16	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
17	Microwave Imaging by Deep Learning Network: Feasibility and Training Method. IEEE Transactions on Antennas and Propagation, 2020, 68, 5626-5635.	3.1	52
18	PET imaging of soluble epoxide hydrolase in non-human primate brain with [18F]FNDP. EJNMMI Research, 2020, 10, 67.	1.1	10

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19	Comparison of CNN-based Approaches for Detection of COVID-19 on Chest X-ray Images. , 2020, , .		5
20	Imaging CAR T cell therapy with PSMA-targeted positron emission tomography. Science Advances, 2019, 5, eaaw5096.	4.7	87
21	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
22	Visual and Semiquantitative Accuracy in Clinical Baseline 123I-Ioflupane SPECT/CT Imaging. Clinical Nuclear Medicine, 2019, 44, 1-3.	0.7	6
23	14.3 OPPORTUNITIES IN PRECISION PSYCHIATRY USING PET-BASED NEUROIMAGING. Schizophrenia Bulletin, 2019, 45, S111-S112.	2.3	0
24	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
25	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
26	Use of ¹⁸F-ASEM PET to Determine the Availability of the Î±7-Nicotinic Acetylcholine Receptor in Recent-Onset Psychosis. Journal of Nuclear Medicine, 2019, 60, 241-243.	2.8	19
27	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
28	A Distinct Advantage to Intraarterial Delivery of ⁸⁹Zr-Bevacizumab in PET Imaging of Mice With and Without Osmotic Opening of the Bloodâ€“Brain Barrier. Journal of Nuclear Medicine, 2019, 60, 617-622.	2.8	49
29	Single-Photon Emission Computed Tomography: Principles and Applications. , 2019, , 493-506.		1
30	¹⁸F-XTRA PET for Enhanced Imaging of the Extrathalamic Î±4Î²2 Nicotinic Acetylcholine Receptor. Journal of Nuclear Medicine, 2018, 59, 1603-1608.	2.8	15
31	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
32	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
33	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
34	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
35	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
36	Microglial activation is inversely associated with cognition in individuals living with HIV on effective antiretroviral therapy. Aids, 2018, 32, 1661-1667.	1.0	60

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37	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
38	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
39	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
40	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
41	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
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	Design of a digital phantom population for myocardial perfusion SPECT imaging research. Physics in Medicine and Biology, 2014, 59, 2935-2953.	1.6	35
44	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
45	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
46	Fast method for inverse determination of optical parameters from two measured signals. Optics Letters, 2013, 38, 2095.	1.7	12
47	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
48	Model mismatch and the ideal observer in SPECT. , 2013, , .		7
49	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
50	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
51	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
52	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
53	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
54	Development and evaluation of an improved quantitative ⁹⁰Y bremsstrahlung SPECT method. Medical Physics, 2012, 39, 2346-2358.	1.6	118

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55	Evaluation of a Multi-pinhole Collimator for Imaging Small Animals with Different Sizes. Molecular Imaging and Biology, 2012, 14, 60-69.	1.3	20
56	Development and evaluation of a model-based downscatter compensation method for quantitative I-131 SPECT. Medical Physics, 2011, 38, 3193-3204.	1.6	24
57	Nonlinear tube-fitting for the analysis of anatomical and functional structures. Annals of Applied Statistics, 2011, 5, 337-363.	0.5	11
58	Development and Validation of a Monte Carlo Simulation Tool for Multi-Pinhole SPECT. Molecular Imaging and Biology, 2010, 12, 295-304.	1.3	15
59	Comparison of organ residence time estimation methods for radioimmunotherapy dosimetry and treatment planningâ€"patient studies. Medical Physics, 2009, 36, 1595-1601.	1.6	26
60	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
61	Quantitative evaluation of simultaneous reconstruction with modelâ€based crosstalk compensation for dualâ€isotope simultaneous acquisition brain SPECT. Medical Physics, 2009, 36, 2021-2033.	1.6	30
62	Comparison of Residence Time Estimation Methods for Radioimmunotherapy Dosimetry and Treatment Planningâ€"Monte Carlo Simulation Studies. IEEE Transactions on Medical Imaging, 2008, 27, 521-530.	5.4	48
63	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
64	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
65	Modelâ€based crosstalk compensation for simultaneous dualâ€isotope brain SPECT imaging. Medical Physics, 2007, 34, 3530-3543.	1.6	31
66	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
67	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
68	Model-based compensation for quantitative123I brain SPECT imaging. Physics in Medicine and Biology, 2006, 51, 1269-1282.	1.6	65
69	Lung dosimetry for radioiodine treatment planning in the case of diffuse lung metastases. Journal of Nuclear Medicine, 2006, 47, 1985-94.	2.8	53
70	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
71	Partial volume effect compensation for quantitative brain SPECT imaging. IEEE Transactions on Medical Imaging, 2005, 24, 969-976.	5.4	103
72	A Monte Carlo and physical phantom evaluation of quantitative In-111 SPECT. Physics in Medicine and Biology, 2005, 50, 4169-4185.	1.6	106

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73	Validation and Evaluation of Model-Based Crosstalk Compensation Method in Simultaneous<tex>$^99rm m$</tex>Tc Stress and<tex>^{201}</tex>Tl Rest Myocardial Perfusion SPECT. IEEE Transactions on Nuclear Science, 2004, 51, 72-79.	1.2	20
74	Antibody-induced intracellular signaling works in combination with radiation to eradicate lymphoma in radioimmunotherapy. Blood, 2004, 103, 1485-1494.	0.6	21
75	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
76	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