

# Hyung-Jun Im

## List of Publications by Year in descending order

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Version: 2024-02-01

75  
papers

2,821  
citations

212478

28  
h-index

206121

51  
g-index

82  
all docs

82  
docs citations

82  
times ranked

5019  
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA origami nanostructures can exhibit preferential renal uptake and alleviate acute kidney injury. <i>Nature Biomedical Engineering</i> , 2018, 2, 865-877.	11.6	297
2	Prediction of Response to Immune Checkpoint Inhibitor Therapy Using Early-Time-Point <sup>18</sup> F-FDG PET/CT Imaging in Patients with Advanced Melanoma. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1421-1428.	2.8	209
3	Prognostic value of volumetric parameters of 18F-FDG PET in non-small-cell lung cancer: a meta-analysis. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 42, 241-251.	3.3	203
4	Molybdenum-based nanoclusters act as antioxidants and ameliorate acute kidney injury in mice. <i>Nature Communications</i> , 2018, 9, 5421.	5.8	184
5	Current Methods to Define Metabolic Tumor Volume in Positron Emission Tomography: Which One is Better?. <i>Nuclear Medicine and Molecular Imaging</i> , 2018, 52, 5-15.	0.6	165
6	<sup>11</sup> C-Pittsburgh B PET Imaging in Cardiac Amyloidosis. <i>JACC: Cardiovascular Imaging</i> , 2015, 8, 50-59.	2.3	135
7	Refining diagnosis of Parkinson's disease with deep learning-based interpretation of dopamine transporter imaging. <i>NeuroImage: Clinical</i> , 2017, 16, 586-594.	1.4	119
8	Renal-Clearable PEGylated Porphyrin Nanoparticles for Image-Guided Photodynamic Cancer Therapy. <i>Advanced Functional Materials</i> , 2017, 27, 1702928.	7.8	113
9	Radiosensitizing high-Z metal nanoparticles for enhanced radiotherapy of glioblastoma multiforme. <i>Journal of Nanobiotechnology</i> , 2020, 18, 122.	4.2	82
10	Re-assessing the enhanced permeability and retention effect in peripheral arterial disease using radiolabeled long circulating nanoparticles. <i>Biomaterials</i> , 2016, 100, 101-109.	5.7	61
11	Prognostic Implications of the SUVmax of Primary Tumors and Metastatic Lymph Node Measured by <sup>18</sup> F-FDG PET in Patients With Uterine Cervical Cancer. <i>Clinical Nuclear Medicine</i> , 2016, 41, 34-40.	0.7	52
12	Radionanomedicine: Widened perspectives of molecular theragnosis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 795-810.	1.7	51
13	Evaluation of a silicon photomultiplier PET insert for simultaneous PET and MR imaging. <i>Medical Physics</i> , 2015, 43, 72-83.	1.6	49
14	Accelerated Blood Clearance Phenomenon Reduces the Passive Targeting of PEGylated Nanoparticles in Peripheral Arterial Disease. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 17955-17963.	4.0	48
15	Abnormal metabolic connectivity in the pilocarpine-induced epilepsy rat model: A multiscale network analysis based on persistent homology. <i>NeuroImage</i> , 2014, 99, 226-236.	2.1	43
16	Radiolabeled polyoxometalate clusters: Kidney dysfunction evaluation and tumor diagnosis by positron emission tomography imaging. <i>Biomaterials</i> , 2018, 171, 144-152.	5.7	42
17	Automated classification of benign and malignant lesions in <sup>18</sup> F-NaF PET/CT images using machine learning. <i>Physics in Medicine and Biology</i> , 2018, 63, 225019.	1.6	41
18	Europium-Diethylenetriaminepentaacetic Acid Loaded Radioluminescence Liposome Nanoplatform for Effective Radioisotope-Mediated Photodynamic Therapy. <i>ACS Nano</i> , 2020, 14, 13004-13015.	7.3	41

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19	[11C]-(R)-PK11195 positron emission tomography in patients with complex regional pain syndrome. <i>Medicine (United States)</i> , 2017, 96, e5735.	0.4	40
20	Noninvasive Imaging of Myocardial Inflammation in Myocarditis using <sup>68</sup> Ga-tagged Mannosylated Human Serum Albumin Positron Emission Tomography. <i>Theranostics</i> , 2017, 7, 413-424.	4.6	38
21	Accuracy and predictive features of FDG-PET/CT and CT for diagnosis of lymph node metastasis of T1 non-small-cell lung cancer manifesting as a subsolid nodule. <i>European Radiology</i> , 2012, 22, 1556-1563.	2.3	36
22	The Effect of Obesity on the Availabilities of Dopamine and Serotonin Transporters. <i>Scientific Reports</i> , 2018, 8, 4924.	1.6	36
23	Rapid Hepatobiliary Excretion of Micelle-Encapsulated/Radiolabeled Upconverting Nanoparticles as an Integrated Form. <i>Scientific Reports</i> , 2015, 5, 15685.	1.6	34
24	Efficient renal clearance of DNA tetrahedron nanoparticles enables quantitative evaluation of kidney function. <i>Nano Research</i> , 2019, 12, 637-642.	5.8	34
25	Usefulness of Combined Metabolic and Volumetric Indices of 18F-FDG PET/CT for the Early Prediction of Neoadjuvant Chemotherapy Outcomes in Breast Cancer. <i>Nuclear Medicine and Molecular Imaging</i> , 2013, 47, 36-43.	0.6	33
26	Prognostic Value of Metabolic and Volumetric Parameters of Preoperative FDG-PET/CT in Patients With Resectable Pancreatic Cancer. <i>Medicine (United States)</i> , 2016, 95, e3686.	0.4	32
27	Radiolabeled pertuzumab for imaging of human epidermal growth factor receptor 2 expression in ovarian cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2017, 44, 1296-1305.	3.3	31
28	In Vivo Imaging of mGluR5 Changes during Epileptogenesis Using [11C]ABP688 PET in Pilocarpine-Induced Epilepsy Rat Model. <i>PLoS ONE</i> , 2014, 9, e92765.	1.1	30
29	Development of theranostic dual-layered Au-liposome for effective tumor targeting and photothermal therapy. <i>Journal of Nanobiotechnology</i> , 2021, 19, 262.	4.2	29
30	Heterogeneity Analysis of 18F-FDG Uptake in Differentiating Between Metastatic and Inflammatory Lymph Nodes in Adenocarcinoma of the Lung: Comparison with Other Parameters and its Application in a Clinical Setting. <i>Nuclear Medicine and Molecular Imaging</i> , 2013, 47, 232-241.	0.6	28
31	Multi-Quantum Dots-Embedded Silica-Encapsulated Nanoparticle-Based Lateral Flow Assay for Highly Sensitive Exosome Detection. <i>Nanomaterials</i> , 2021, 11, 768.	1.9	27
32	Functional evaluation of parathyroid adenoma using 99mTc-MIBI parathyroid SPECT/CT. <i>Nuclear Medicine Communications</i> , 2014, 35, 649-654.	0.5	26
33	Theranostics Based on Liposome: Looking Back and Forward. <i>Nuclear Medicine and Molecular Imaging</i> , 2019, 53, 242-246.	0.6	26
34	Prognostic Value of Metabolic and Volumetric Parameters of FDG PET in Pediatric Osteosarcoma: A Hypothesis-generating Study. <i>Radiology</i> , 2018, 287, 303-312.	3.6	25
35	Magnetic and near-infrared derived heating characteristics of dimercaptosuccinic acid coated uniform Fe@Fe <sub>3</sub> O <sub>4</sub> core-shell nanoparticles. <i>Nano Convergence</i> , 2020, 7, 20.	6.3	25
36	Identifying neuropathic pain using 18F-FDG micro-PET: A multivariate pattern analysis. <i>NeuroImage</i> , 2014, 86, 311-316.	2.1	24

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37	Disrupted brain metabolic connectivity in a 6-OHDA-induced mouse model of Parkinson's disease examined using persistent homology-based analysis. <i>Scientific Reports</i> , 2016, 6, 33875.	1.6	24
38	New Application of Dual Point 18F-FDG PET/CT in the Evaluation of Neoadjuvant Chemoradiation Response of Locally Advanced Rectal Cancer. <i>Clinical Nuclear Medicine</i> , 2013, 38, 7-12.	0.7	22
39	Evaluation of Surgical Completeness in Endoscopic Thyroidectomy Compared With Open Thyroidectomy With Regard to Remnant Ablation. <i>Clinical Nuclear Medicine</i> , 2012, 37, 148-151.	0.7	21
40	Versatile and Finely Tuned Albumin Nanoplatform based on Click Chemistry. <i>Theranostics</i> , 2019, 9, 3398-3409.	4.6	21
41	Dynamic <i>In Vivo</i> X-ray Fluorescence Imaging of Gold in Living Mice Exposed to Gold Nanoparticles. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 526-533.	5.4	20
42	Nanostructured polyvinylpyrrolidone-curcumin conjugates allowed for kidney-targeted treatment of cisplatin induced acute kidney injury. <i>Bioactive Materials</i> , 2023, 19, 282-291.	8.6	17
43	ImmunoPET Imaging of Insulin-Like Growth Factor 1 Receptor in a Subcutaneous Mouse Model of Pancreatic Cancer. <i>Molecular Pharmaceutics</i> , 2016, 13, 1958-1966.	2.3	16
44	Serum thyroglobulin level after radioiodine therapy (Day 3) to predict successful ablation of thyroid remnant in postoperative thyroid cancer. <i>Annals of Nuclear Medicine</i> , 2015, 29, 184-189.	1.2	15
45	Development of 99mTc-Labeled Human Serum Albumin with Prolonged Circulation by Chelate-then-Click Approach: A Potential Blood Pool Imaging Agent. <i>Molecular Pharmaceutics</i> , 2019, 16, 1586-1595.	2.3	13
46	Association of metabolic and genetic heterogeneity in head and neck squamous cell carcinoma with prognostic implications: integration of FDG PET and genomic analysis. <i>EJNMMI Research</i> , 2019, 9, 97.	1.1	13
47	Validation of Simple Quantification Methods for 18F-FP-CIT PET Using Automatic Delineation of Volumes of Interest Based on Statistical Probabilistic Anatomical Mapping and Isocontour Margin Setting. <i>Nuclear Medicine and Molecular Imaging</i> , 2012, 46, 254-260.	0.6	12
48	<i>In Vivo</i> Visualization and Monitoring of Viable Neural Stem Cells Using Noninvasive Bioluminescence Imaging in the 6-Hydroxydopamine-Induced Mouse Model of Parkinson Disease. <i>Molecular Imaging</i> , 2013, 12, 7290.2012.00035.	0.7	12
49	Striatal dopamine transporter changes after glucose loading in humans. <i>Diabetes, Obesity and Metabolism</i> , 2020, 22, 116-122.	2.2	11
50	Proposed Motor Scoring System in a Porcine Model of Parkinson's Disease induced by Chronic Subcutaneous Injection of MPTP. <i>Experimental Neurobiology</i> , 2014, 23, 258-265.	0.7	10
51	M1 Macrophage-Derived Exosome-Mimetic Nanovesicles with an Enhanced Cancer Targeting Ability. <i>ACS Applied Bio Materials</i> , 2022, 5, 2862-2869.	2.3	10
52	Head to head comparison of 68Ga-NGUL and 68Ga-PSMA-11 in patients with metastatic prostate cancer: a prospective study. <i>Journal of Nuclear Medicine</i> , 2021, 62, jnumed.120.258434.	2.8	9
53	Prognostic implication of retrocrural lymph node involvement revealed by 18F-FDG PET/CT in patients with uterine cervical cancer. <i>Nuclear Medicine Communications</i> , 2014, 35, 268-275.	0.5	8
54	Discovery of potential imaging and therapeutic targets for severe inflammation in COVID-19 patients. <i>Scientific Reports</i> , 2021, 11, 14151.	1.6	8

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55	In vivo visualization and monitoring of viable neural stem cells using noninvasive bioluminescence imaging in the 6-hydroxydopamine-induced mouse model of Parkinson disease. <i>Molecular Imaging</i> , 2013, 12, 224-34.	0.7	8
56	Retrocral Lymph Node Metastasis Disclosed by 18F-FDG PET/CT: A Predictor of Supra-diaphragmatic Spread in Ovarian Cancer. <i>Nuclear Medicine and Molecular Imaging</i> , 2012, 46, 41-47.	0.6	7
57	In vivo Brain Delivery of v- <i>myc</i> Overproduced Human Neural Stem Cells via the Intranasal Pathway: Tumor Characteristics in the Lung of a Nude Mouse. <i>Molecular Imaging</i> , 2015, 14, 7290.2014.00042.	0.7	7
58	Feasibility of simultaneous 18F-FDG PET/MRI for the quantitative volumetric and metabolic measurements of abdominal fat tissues using fat segmentation. <i>Nuclear Medicine Communications</i> , 2016, 37, 616-622.	0.5	7
59	Brown adipose tissue imaging using the TSPO tracer [18F]fluoromethyl-PBR28-d2: A comparison with [18F]FDG. <i>Nuclear Medicine and Biology</i> , 2020, 90-91, 98-103.	0.3	7
60	Limited power of dopamine transporter mRNA mapping for predicting dopamine transporter availability. <i>Synapse</i> , 2022, 76, .	0.6	7
61	Plasmablastic lymphoma exclusively involving bones mimicking osteosarcoma in an immunocompetent patient. <i>Medicine (United States)</i> , 2016, 95, e4241.	0.4	5
62	Determination of Parkinson Disease Laterality After Deep Brain Stimulation Using 123I FP-CIT SPECT. <i>Clinical Nuclear Medicine</i> , 2020, 45, e178-e184.	0.7	5
63	Excretion and Clearance. <i>Biological and Medical Physics Series</i> , 2018, , 347-368.	0.3	4
64	Comparison of novel multi-level Otsu (MO-PET) and conventional PET segmentation methods for measuring FDG metabolic tumor volume in patients with soft tissue sarcoma. <i>EJNMMI Physics</i> , 2017, 4, 22.	1.3	3
65	Visual Rating and Computer-Assisted Analysis of FDG PET in the Prediction of Conversion to Alzheimer's Disease in Mild Cognitive Impairment. <i>Molecular Diagnosis and Therapy</i> , 2018, 22, 475-483.	1.6	3
66	Intratumoral Heterogeneous F-18 Fluorodeoxyglucose Uptake Corresponds with Glucose Transporter-1 and Ki-67 Expression in a Case of Krukenberg Tumor: Localization of Intratumoral Hypermetabolic Focus by Fused PET/MR Image. <i>Nuclear Medicine and Molecular Imaging</i> , 2011, 45, 139-144.	0.6	2
67	Magnetic Resonance Imaging in Movement Disorders: A Guide for Clinicians and Scientists. <i>Journal of Nuclear Medicine</i> , 2015, 56, 812-812.	2.8	2
68	Striatal DAT availability does not change after supraphysiological glucose loading dose in humans. <i>Endocrine Connections</i> , 2021, 10, 1266-1272.	0.8	1
69	Enhanced Bidirectional Connectivity of the Subthalamo-pallidal Pathway in 6-OHDA-mouse Model of Parkinson's Disease Revealed by Probabilistic Tractography of Diffusion-weighted MRI at 9.4T. <i>Experimental Neurobiology</i> , 2020, 29, 80-92.	0.7	1
70	Multi-level otsu method to define metabolic tumor volume in positron emission tomography. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2018, 8, 373-386.	1.0	1
71	Sex difference in cardiac metabolism in nonischemic heart failure: Insight for prognostic value of altered cardiac metabolism. <i>Journal of Nuclear Cardiology</i> , 2017, 24, 1236-1238.	1.4	0
72	Preclinical PET and SPECT for Radionanomedicine. <i>Biological and Medical Physics Series</i> , 2018, , 279-292.	0.3	0

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73	Effects of animal handling on striatal DAT availability in rats. <i>Annals of Nuclear Medicine</i> , 2020, 34, 496-501.	1.2	0
74	Cover Image, Volume 22, Issue 1. <i>Diabetes, Obesity and Metabolism</i> , 2020, 22, i.	2.2	0
75	Prognostic impact of an integrative analysis of [18F]FDG PET parameters and infiltrating immune cell scores in lung adenocarcinoma. <i>EJNMMI Research</i> , 2022, 12, .	1.1	0