

Byung-Chul Lee

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

1,518
citations

304602

22
h-index

377752

34
g-index

73
all docs

73
docs citations

73
times ranked

2481
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic implants in vivo guiding sorafenib liver delivery by superparamagnetic solid lipid nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 239-254.	5.0	17
2	Microfluidic-Assisted Preparation of Targeted pH-Responsive Polymeric Micelles Improves Gemcitabine Effectiveness in PDAC: In Vitro Insights. <i>Cancers</i> , 2022, 14, 5.	1.7	12
3	Thalamic and prefrontal GABA concentrations but not GABA _A receptor densities are altered in high-functioning adults with autism spectrum disorder. <i>Molecular Psychiatry</i> , 2021, 26, 1634-1646.	4.1	37
4	TSPO Expression Modulatory Effect of Acetylcholinesterase Inhibitor in the Ischemic Stroke Rat Model. <i>Cells</i> , 2021, 10, 1350.	1.8	7
5	Biodistribution and internal radiation dosimetry of a companion diagnostic radiopharmaceutical, [⁶⁸ Ga]PSMA-11, in subcutaneous prostate cancer xenograft model mice. <i>Scientific Reports</i> , 2021, 11, 15263.	1.6	2
6	Association of Prestroke Glycemic Control With Vascular Events During 1-Year Follow-up. <i>Neurology</i> , 2021, 97, 10.1212/WNL.0000000000012729.	1.5	3
7	Effect of Peptide Receptor Radionuclide Therapy in Combination with Temozolomide against Tumor Angiogenesis in a Glioblastoma Model. <i>Cancers</i> , 2021, 13, 5029.	1.7	1
8	Radiosynthesis and characterization of [¹⁸ F]BS224: a next-generation TSPO PET ligand insensitive to the rs6971 polymorphism. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 49, 110-124.	3.3	13
9	Neurorestorative Effects of a Novel Fas-Associated Factor 1 Inhibitor in the MPTP Model: An [¹⁸ F]FE-PE2I Positron Emission Tomography Analysis Study. <i>Frontiers in Pharmacology</i> , 2020, 11, 953.	1.6	6
10	Multifunctional Crown-5-calix[4]arene-based Phase-Transfer Catalysts for Aromatic ¹⁸ F-Fluorination. <i>Organic Letters</i> , 2020, 22, 9551-9555.	2.4	7
11	Neurologic deterioration in patients with acute ischemic stroke or transient ischemic attack. <i>Neurology</i> , 2020, 95, e2178-e2191.	1.5	44
12	[¹⁸ F]CB251 PET/MR imaging probe targeting translocator protein (TSPO) independent of its Polymorphism in a Neuroinflammation Model. <i>Theranostics</i> , 2020, 10, 9315-9331.	4.6	15
13	Comparative Study in Different Filters for Efficient Sterile Filtration. <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 824-828.	1.0	2
14	Brown adipose tissue imaging using the TSPO tracer [¹⁸ F]fluoromethyl-PBR28-d2: A comparison with [¹⁸ F]FDG. <i>Nuclear Medicine and Biology</i> , 2020, 90-91, 98-103.	0.3	7
15	Three-month modified Rankin Scale as a determinant of 5-year cumulative costs after ischemic stroke. <i>Neurology</i> , 2020, 94, e978-e991.	1.5	26
16	Multimodal Imaging Probe Development for Pancreatic β 2 Cells: From Fluorescence to PET. <i>Journal of the American Chemical Society</i> , 2020, 142, 3430-3439.	6.6	34
17	Synthesis and evaluation of novel potent TSPO PET ligands with 2-phenylpyrazolo[1,5-a]pyrimidin-3-yl acetamide. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 4069-4080.	1.4	11
18	Origin of Difference in the Reactivity of Aliphatic and Aromatic Guanidine α -containing Pharmaceuticals Toward [¹⁸ F]Fluorination: Coulombic Forces and Hydrogen Bonding. <i>Bulletin of the Korean Chemical Society</i> , 2019, 40, 894-897.	1.0	5

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19	HPLC-free <i>in situ</i> ¹⁸ F-fluoromethylation of bioactive molecules by azidation and MTBD scavenging. <i>Chemical Communications</i> , 2019, 55, 11798-11801.	2.2	4
20	TSPO-targeted NIR-fluorescent ultra-small iron oxide nanoparticles for glioblastoma imaging. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 139, 105047.	1.9	19
21	A simple decontamination procedure for unintended iodide impurity during [¹¹ C]methionine production. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 322, 933-939.	0.7	2
22	Stereoselective three-component cascade synthesis of $\hat{\pm}$ -substituted 2,4-dienamides from <i>gem</i> -difluorochloro ethanes. <i>Chemical Communications</i> , 2019, 55, 14355-14358.	2.2	6
23	Preclinical SPECT Imaging of Choroidal Neovascularization in Mice Using Integrin-Binding [^{99m} Tc]IDA-D-[c(RGDfK)] ₂ . <i>Molecular Imaging and Biology</i> , 2019, 21, 644-653.	1.3	3
24	Combination of <i>In Vivo</i> [¹²³ I]FP-CIT SPECT and Microdialysis Reveals an Antipsychotic Drug Haloperidol-induced Synaptic Dopamine Availability in the Rat Midbrain and Striatum. <i>Experimental Neurobiology</i> , 2019, 28, 602-611.	0.7	4
25	Predictive Value of Pulse Pressure in Acute Ischemic Stroke for Future Major Vascular Events. <i>Stroke</i> , 2018, 49, 46-53.	1.0	196
26	Novel potential pyrazolopyrimidine based translocator protein ligands for the evaluation of neuroinflammation with PET. <i>European Journal of Medicinal Chemistry</i> , 2018, 159, 292-306.	2.6	13
27	Cobalt-Catalyzed C-F Bond Borylation of Aryl Fluorides. <i>Organic Letters</i> , 2018, 20, 7249-7252.	2.4	40
28	Preclinical comparison study between [¹⁸ F]fluoromethyl-PBR28 and its deuterated analog in a rat model of neuroinflammation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 2925-2929.	1.0	15
29	Assessment of TSPO in a Rat Experimental Autoimmune Myocarditis Model: A Comparison Study between [¹⁸ F]Fluoromethyl-PBR28 and [¹⁸ F]CB251. <i>International Journal of Molecular Sciences</i> , 2018, 19, 276.	1.8	21
30	Biodistribution and Internal Radiation Dosimetry of ^{99m} Tc-IDA-D-[c(RGDfK)] ₂ (BIK-505), a Novel SPECT Radiotracer for the Imaging of Integrin $\hat{\pm}$ Expression. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2018, 33, 396-402.	0.7	8
31	Feasibility of myocardial PET imaging using a benzylguanidine analog: meta-(3-[¹⁸ F]fluoropropyl)benzylguanidine ([¹⁸ F]mFPBG). <i>Nuclear Medicine and Biology</i> , 2018, 61, 63-70.	0.3	4
32	A Potential PET Radiotracer for the 5-HT _{2C} Receptor: Synthesis and <i>In Vivo</i> Evaluation of 4-(3-[¹⁸ F]fluorophenethoxy)pyrimidine. <i>ACS Chemical Neuroscience</i> , 2017, 8, 996-1003.	1.7	25
33	PET measurement of $\hat{\alpha}$ -GABA shift in the rat brain: A preclinical application of bolus plus constant infusion paradigm of [¹⁸ F]flumazenil. <i>Nuclear Medicine and Biology</i> , 2017, 45, 30-34.	0.3	6
34	One-Year Outcomes After Minor Stroke or High-Risk Transient Ischemic Attack. <i>Stroke</i> , 2017, 48, 2991-2998.	1.0	36
35	Imaging of Integrin $\hat{\pm}$ Expression in Lung Cancers and Brain Tumors Using Single-Photon Emission Computed Tomography with a Novel Radiotracer ^{99m} Tc-IDA-D-[c(RGDfK)] ₂ . <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2017, 32, 288-296.	0.7	8
36	The position of fluorine in CP-118,954 affects AChE inhibition potency and PET imaging quantification for AChE expression in the rat brain. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 109, 209-216.	1.9	2

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37	Clinical Outcomes of Posterior Versus Anterior Circulation Infarction With Low National Institutes of Health Stroke Scale Scores. <i>Stroke</i> , 2017, 48, 55-62.	1.0	67
38	Immuno-PET imaging based radioimmunotherapy in head and neck squamous cell carcinoma model. <i>Oncotarget</i> , 2017, 8, 92090-92105.	0.8	20
39	Synthesis and Evaluation of Tricarbonyl ^{99m} Tc-Labeled 2-(4-Chloro)phenyl-imidazo[1,2-a]pyridine Analogs as Novel SPECT Imaging Radiotracer for TSPO-Rich Cancer. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1085.	1.8	14
40	Design and Synthesis of Phenoxyridyl Acetamide or Aryl-oxodihydropurine Derivatives for the Development of Novel ¹⁸ F PET Ligands Targeting the Translocator Protein 18 kDa (¹⁸ F-TSPO). <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 1874-1877.	1.0	2
41	A Novel PET Imaging Probe for the Detection and Monitoring of Translocator Protein 18 kDa Expression in Pathological Disorders. <i>Scientific Reports</i> , 2016, 6, 20422.	1.6	44
42	Synthesis and <i>In Vivo</i> Evaluation of a Kit-Type ^{99m} Tc-labeled		

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55	Grading and Interpretation of White Matter Hyperintensities Using Statistical Maps. <i>Stroke</i> , 2014, 45, 3567-3575.	1.0	54
56	Proof of Mechanism Study of a Novel Serotonin Transporter Blocker, DA-8031, Using [¹¹ C]DASB Positron Emission Tomography and In Vivo Microdialysis. <i>Urology</i> , 2014, 84, 245.e1-245.e7.	0.5	8
57	Routine Production of [¹⁸ F]Flumazenil from Iodonium Tosylate Using a Sample Pretreatment Method: a 2.5-Year Production Report. <i>Molecular Imaging and Biology</i> , 2014, 16, 619-625.	1.3	21
58	[¹⁸ F]Fluoromethyl-PBR28 as a Potential Radiotracer for TSPO: Preclinical Comparison with [¹¹ C]PBR28 in a Rat Model of Neuroinflammation. <i>Bioconjugate Chemistry</i> , 2014, 25, 442-450.	1.8	33
59	Exploration of Optimal Dosing Regimens of Haloperidol, a D2 Antagonist, via Modeling and Simulation Analysis in a D2 Receptor Occupancy Study. <i>Pharmaceutical Research</i> , 2013, 30, 683-693.	1.7	14
60	Synthesis and biological evaluation of RGD peptides with the ^{99m} Tc/ ¹⁸⁸ Re chelated iminodiacetate core: highly enhanced uptake and excretion kinetics of theranostics against tumor angiogenesis. <i>RSC Advances</i> , 2013, 3, 782-792.	1.7	26
61	Facile aromatic radiofluorination of [¹⁸ F]flumazenil from diaryliodonium salts with evaluation of their stability and selectivity. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 8346.	1.5	61
62	Aromatic radiofluorination and biological evaluation of 2-aryl-6-[¹⁸ F]fluorobenzothiazoles as a potential positron emission tomography imaging probe for β -amyloid plaques. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 2980-2990.	1.4	30
63	Clinical Usefulness of ¹⁸ F-fluoride Bone PET. <i>Nuclear Medicine and Molecular Imaging</i> , 2010, 44, 55-61.	0.6	11
64	Fluorine-18 labeling and biodistribution studies on peroxisome proliferator-activated receptor- β ligands: potential positron emission tomography imaging agents. <i>Nuclear Medicine and Biology</i> , 2009, 36, 147-153.	0.3	26
65	^{99m} Tc(CO) ₃ -15-[N-(Acetyloxy)-2-picolylamino]pentadecanoic Acid: A Potential Radiotracer for Evaluation of Fatty Acid Metabolism. <i>Bioconjugate Chemistry</i> , 2007, 18, 1332-1337.	1.8	21
66	Synthesis and Binding Affinity of a Fluorine-Substituted Peroxisome Proliferator-Activated Gamma (PPAR γ) Ligand as a Potential Positron Emission Tomography (PET) Imaging Agent. <i>Bioconjugate Chemistry</i> , 2007, 18, 507-513.	1.8	6
67	Strategies for the Labeling of Halogen-Substituted Peroxisome Proliferator-Activated Receptor β Ligands: A Potential Positron Emission Tomography and Single Photon Emission Computed Tomography Imaging Agents. <i>Bioconjugate Chemistry</i> , 2007, 18, 514-523.	1.8	23
68	Synthesis of Tc-99m labeled glucosamino-Asp-cyclic(Arg-Gly-Asp-d-Phe-Lys) as a potential angiogenesis imaging agent. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 7755-7764.	1.4	15
69	Efficient methods for the synthesis of 5-(4-[¹⁸ F]fluorophenyl)-10,15,20-tris(3-methoxyphenyl)porphyrin as a potential imaging agent for tumor. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2005, 48, 749-758.	0.5	26
70	Potential and Practical Adrenomedullary PET Radiopharmaceuticals as an Alternative tom-Iodobenzylguanidine: α -([¹⁸ F]Fluoroalkyl)benzylguanidines. <i>Bioconjugate Chemistry</i> , 2004, 15, 104-111.	1.8	21
71	Hydroacylation of 4-[¹⁸ F]fluorobenzaldehyde: a novel method for the preparation of 4'-[¹⁸ F]phenylketones. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2002, 45, 1045-1053.	0.5	11