Byung-Chul Lee

List of Publications by Year
in descending order

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71	1,518	304602	377752
papers	citations	22 h-index	34 g-index

73	73	73	2481
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Predictive Value of Pulse Pressure in Acute Ischemic Stroke for Future Major Vascular Events. Stroke, 2018, 49, 46-53.	1.0	196
2	Clinical Outcomes of Posterior Versus Anterior Circulation Infarction With Low National Institutes of Health Stroke Scale Scores. Stroke, 2017, 48, 55-62.	1.0	67
3	Facile aromatic radiofluorination of [18F]flumazenil from diaryliodonium salts with evaluation of their stability and selectivity. Organic and Biomolecular Chemistry, 2011, 9, 8346.	1.5	61
4	Low-Versus Standard-Dose Alteplase for Ischemic Strokes Within 4.5 Hours. Stroke, 2015, 46, 2541-2548.	1.0	56
5	Grading and Interpretation of White Matter Hyperintensities Using Statistical Maps. Stroke, 2014, 45, 3567-3575.	1.0	54
6	Immuno-PET Imaging and Radioimmunotherapy of ⁶⁴Cu-/¹⁷⁷Lu-Labeled Anti-EGFR Antibody in Esophageal Squamous Cell Carcinoma Model. Journal of Nuclear Medicine, 2016, 57, 1105-1111.	2.8	54
7	A Novel PET Imaging Probe for the Detection and Monitoring of Translocator Protein 18â€‰kDa Expression in Pathological Disorders. Scientific Reports, 2016, 6, 20422.	1.6	44
8	Neurologic deterioration in patients with acute ischemic stroke or transient ischemic attack. Neurology, 2020, 95, e2178-e2191.	1.5	44
9	Cobalt-Catalyzed Câ€“F Bond Borylation of Aryl Fluorides. Organic Letters, 2018, 20, 7249-7252.	2.4	40
10	Thalamic and prefrontal GABA concentrations but not GABAA receptor densities are altered in high-functioning adults with autism spectrum disorder. Molecular Psychiatry, 2021, 26, 1634-1646.	4.1	37
11	One-Year Outcomes After Minor Stroke or High-Risk Transient Ischemic Attack. Stroke, 2017, 48, 2991-2998.	1.0	36
12	Multimodal Imaging Probe Development for Pancreatic Î² Cells: From Fluorescence to PET. Journal of the American Chemical Society, 2020, 142, 3430-3439.	6.6	34
13	[¹⁸F]Fluoromethyl-PBR28 as a Potential Radiotracer for TSPO: Preclinical Comparison with [¹¹C]PBR28 in a Rat Model of Neuroinflammation. Bioconjugate Chemistry, 2014, 25, 442-450.	1.8	33
14	SPECT/CT Imaging of High-Risk Atherosclerotic Plaques using Integrin-Binding RGD Dimer Peptides. Scientific Reports, 2015, 5, 11752.	1.6	33
15	Aromatic radiofluorination and biological evaluation of 2-aryl-6-[18F]fluorobenzothiazoles as a potential positron emission tomography imaging probe for Î²-amyloid plaques. Bioorganic and Medicinal Chemistry, 2011, 19, 2980-2990.	1.4	30
16	Click Reaction: An Applicable Radiolabeling Method for Molecular Imaging. Nuclear Medicine and Molecular Imaging, 2015, 49, 258-267.	0.6	29
17	Neuropsychological, Metabolic, and GABA_AReceptor Studies in Subjects with Repetitive Traumatic Brain Injury. Journal of Neurotrauma, 2016, 33, 1005-1014.	1.7	29
18	Different Antiplatelet Strategies in Patients With New Ischemic Stroke While Taking Aspirin. Stroke, 2016, 47, 128-134.	1.0	29

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19	Efficient methods for the synthesis of 5-(4-[18F]fluorophenyl)-10,15,20-tris(3-methoxyphenyl)porphyrin as a potential imaging agent for tumor. Journal of Labelled Compounds and Radiopharmaceuticals, 2005, 48, 749-758.	0.5	26
20	Fluorine-18 labeling and biodistribution studies on peroxisome proliferator-activated receptor-Î³ ligands: potential positron emission tomography imaging agents. Nuclear Medicine and Biology, 2009, 36, 147-153.	0.3	26
21	Synthesis and biological evaluation of RGD peptides with the99mTc/188Re chelated iminodiacetate core: highly enhanced uptake and excretion kinetics of theranostics against tumor angiogenesis. RSC Advances, 2013, 3, 782-792.	1.7	26
22	Three-month modified Rankin Scale as a determinant of 5-year cumulative costs after ischemic stroke. Neurology, 2020, 94, e978-e991.	1.5	26
23	A Potential PET Radiotracer for the 5-HT_{2C} Receptor: Synthesis and in Vivo Evaluation of 4-(3-[¹⁸F]fluorophenethoxy)pyrimidine. ACS Chemical Neuroscience, 2017, 8, 996-1003.	1.7	25
24	Strategies for the Labeling of Halogen-Substituted Peroxisome Proliferator-Activated Receptor Î³ Ligands:Â Potential Positron Emission Tomography and Single Photon Emission Computed Tomography Imaging Agents. Bioconjugate Chemistry, 2007, 18, 514-523.	1.8	23
25	Family History and Risk of Recurrent Stroke. Stroke, 2016, 47, 1990-1996.	1.0	22
26	Potential and Practical Adrenomedullary PET Radiopharmaceuticals as an Alternative tom-Iodobenzylguanidine:Âm-(Ï‰-[18F]Fluoroalkyl)benzylguanidines. Bioconjugate Chemistry, 2004, 15, 104-111.	1.8	21
27	99mTc(CO)3-15-[N-(Acetyloxy)-2-picolylamino]pentadecanoic Acid:Â A Potential Radiotracer for Evaluation of Fatty Acid Metabolism. Bioconjugate Chemistry, 2007, 18, 1332-1337.	1.8	21
28	Routine Production of [18F]Flumazenil from Iodonium Tosylate Using a Sample Pretreatment Method: a 2.5-Year Production Report. Molecular Imaging and Biology, 2014, 16, 619-625.	1.3	21
29	Assessment of TSPO in a Rat Experimental Autoimmune Myocarditis Model: A Comparison Study between [18F]Fluoromethyl-PBR28 and [18F]CB251. International Journal of Molecular Sciences, 2018, 19, 276.	1.8	21
30	Immuno-PET imaging based radioimmunotherapy in head and neck squamous cell carcinoma model. Oncotarget, 2017, 8, 92090-92105.	0.8	20
31	TSPO-targeted NIR-fluorescent ultra-small iron oxide nanoparticles for glioblastoma imaging. European Journal of Pharmaceutical Sciences, 2019, 139, 105047.	1.9	19
32	Magnetic implants in vivo guiding sorafenib liver delivery by superparamagnetic solid lipid nanoparticles. Journal of Colloid and Interface Science, 2022, 608, 239-254.	5.0	17
33	PET imaging of dopamine transporters with [18 F]FE-PE2I: Effects of anti-Parkinsonian drugs. Nuclear Medicine and Biology, 2016, 43, 158-164.	0.3	16
34	Synthesis of Tc-99m labeled glucosamino-Asp-cyclic(Arg-Gly-Asp-d-Phe-Lys) as a potential angiogenesis imaging agent. Bioorganic and Medicinal Chemistry, 2007, 15, 7755-7764.	1.4	15
35	Preclinical comparison study between [18F]fluoromethyl-PBR28 and its deuterated analog in a rat model of neuroinflammation. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2925-2929.	1.0	15
36	[18F]CB251 PET/MR imaging probe targeting translocator protein (TSPO) independent of its Polymorphism in a Neuroinflammation Model. Theranostics, 2020, 10, 9315-9331.	4.6	15

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37	Exploration of Optimal Dosing Regimens of Haloperidol, a D2 Antagonist, via Modeling and Simulation Analysis in a D2 Receptor Occupancy Study. Pharmaceutical Research, 2013, 30, 683-693.	1.7	14
38	Synthesis and Evaluation of Tricarbonyl 99mTc-Labeled 2-(4-Chloro)phenyl-imidazo[1,2-a]pyridine Analogs as Novel SPECT Imaging Radiotracer for TSPO-Rich Cancer. International Journal of Molecular Sciences, 2016, 17, 1085.	1.8	14
39	Case Report of PET/CT Imaging of a Patient With Neuroblastoma Using 18 F-FPBG. Pediatrics, 2014, 134, e1731-e1734.	1.0	13
40	Novel potential pyrazolopyrimidine based translocator protein ligands for the evaluation of neuroinflammation with PET. European Journal of Medicinal Chemistry, 2018, 159, 292-306.	2.6	13
41	Radiosynthesis and characterization of [18F]BS224: a next-generation TSPO PET ligand insensitive to the rs6971 polymorphism. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 49, 110-124.	3.3	13
42	Microfluidic-Assisted Preparation of Targeted pH-Responsive Polymeric Micelles Improves Gemcitabine Effectiveness in PDAC: In Vitro Insights. Cancers, 2022, 14, 5.	1.7	12
43	Hydroacylation of 4-[18F]fluorobenzaldehyde: a novel method for the preparation of 4?-[18F]phenylketones. Journal of Labelled Compounds and Radiopharmaceuticals, 2002, 45, 1045-1053.	0.5	11
44	Clinical Usefulness of 18F-fluoride Bone PET. Nuclear Medicine and Molecular Imaging, 2010, 44, 55-61.	0.6	11
45	Synthesis and evaluation of novel potent TSPO PET ligands with 2-phenylpyrazolo[1,5-a]pyrimidin-3-yl acetamide. Bioorganic and Medicinal Chemistry, 2019, 27, 4069-4080.	1.4	11
46	Effects of common anesthetic agents on [18F]flumazenil binding to the GABAA receptor. EJNMMI Research, 2016, 6, 80.	1.1	9
47	Proof of Mechanism Study of a Novel Serotonin Transporter Blocker, DA-8031, Using [11C]DASB Positron Emission Tomography and InÂVivo Microdialysis. Urology, 2014, 84, 245.e1-245.e7.	0.5	8
48	Identification of Angiogenesis Rich-Viable Myocardium using RGD Dimer based SPECT after Myocardial Infarction. Scientific Reports, 2016, 6, 27520.	1.6	8
49	Imaging of Integrin Î±vÎ²3 Expression in Lung Cancers and Brain Tumors Using Single-Photon Emission Computed Tomography with a Novel Radiotracer 99mTc-IDA-D-[c(RGDfK)]2. Cancer Biotherapy and Radiopharmaceuticals, 2017, 32, 288-296.	0.7	8
50	Biodistribution and Internal Radiation Dosimetry of ^{99m}Tc-IDA-D-[c(RGDfK)]₂ (BIK-505), a Novel SPECT Radiotracer for the Imaging of Integrin Î±_vÎ²₃ Expression. Cancer Biotherapy and Radiopharmaceuticals, 2018, 33, 396-402.	0.7	8
51	Multifunctional Crown-5-calix[4]arene-based Phase-Transfer Catalysts for Aromatic ¹⁸F-Fluorination. Organic Letters, 2020, 22, 9551-9555.	2.4	7
52	Brown adipose tissue imaging using the TSPO tracer [18F]fluoromethyl-PBR28-d2: A comparison with [18F]FDG. Nuclear Medicine and Biology, 2020, 90-91, 98-103.	0.3	7
53	TSPO Expression Modulatory Effect of Acetylcholinesterase Inhibitor in the Ischemic Stroke Rat Model. Cells, 2021, 10, 1350.	1.8	7
54	Synthesis and Binding Affinity of a Fluorine-Substituted Peroxisome Proliferator-Activated Gamma (PPARÎ³) Ligand as a Potential Positron Emission Tomography (PET) Imaging Agent. Bioconjugate Chemistry, 2007, 18, 507-513.	1.8	6

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55	PET measurement of â€œGABA shiftâ€•in the rat brain: A preclinical application of bolus plus constant infusion paradigm of [18F]flumazenil. Nuclear Medicine and Biology, 2017, 45, 30-34.	0.3	6
56	Stereoselective three-component cascade synthesis of Î±-substituted 2,4-dienamides from gem-difluorochloro ethanes. Chemical Communications, 2019, 55, 14355-14358.	2.2	6
57	Neurorestorative Effects of a Novel Fas-Associated Factor 1 Inhibitor in the MPTP Model: An [18F]FE-PE2I Positron Emission Tomography Analysis Study. Frontiers in Pharmacology, 2020, 11, 953.	1.6	6
58	Impact of Guidelines on Clinical Practice. Stroke, 2016, 47, 1577-1583.	1.0	5
59	Origin of Difference in the Reactivity of Aliphatic and Aromatic Guanidineâ€containing Pharmaceuticals Toward [18 F]Fluorination: Coulombic Forces and Hydrogen Bonding. Bulletin of the Korean Chemical Society, 2019, 40, 894-897.	1.0	5
60	Feasibility of myocardial PET imaging using a benzylguanidine analog: meta-(3-[18F]fluoropropyl)benzylguanidine ([18F]mFPBG). Nuclear Medicine and Biology, 2018, 61, 63-70.	0.3	4
61	HPLC-free in situ¹⁸F-fluoromethylation of bioactive molecules by azidation and MTBD scavenging. Chemical Communications, 2019, 55, 11798-11801.	2.2	4
62	Combination of In Vivo [¹²³I]FP-CIT SPECT and Microdialysis Reveals an Antipsychotic Drug Haloperidol-induced Synaptic Dopamine Availability in the Rat Midbrain and Striatum. Experimental Neurobiology, 2019, 28, 602-611.	0.7	4
63	Preclinical SPECT Imaging of Choroidal Neovascularization in Mice Using Integrin-Binding [99mTc]IDA-D-[c(RGDfK)]2. Molecular Imaging and Biology, 2019, 21, 644-653.	1.3	3
64	Association of Prestroke Glycemic Control With Vascular Events During 1-Year Follow-up. Neurology, 2021, 97, 10.1212/WNL.0000000000012729.	1.5	3
65	Design and Synthesis of Phenoxypyridyl Acetamide or Arylâ€oxodihydropurine Derivatives for the Development of Novel <scp>PET</scp> Ligands Targeting the Translocator Protein 18 <scp>kDa</scp> (<scp>TSPO</scp>). Bulletin of the Korean Chemical Society, 2016, 37, 1874-1877.	1.0	2
66	The position of fluorine in CP-118,954 affects AChE inhibition potency and PET imaging quantification for AChE expression in the rat brain. European Journal of Pharmaceutical Sciences, 2017, 109, 209-216.	1.9	2
67	A simple decontamination procedure for unintended iodide impurity during [11C]methionine production. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 933-939.	0.7	2
68	Comparative Study in Different Filters for Efficient Sterile Filtration. Bulletin of the Korean Chemical Society, 2020, 41, 824-828.	1.0	2
69	Biodistribution and internal radiation dosimetry of a companion diagnostic radiopharmaceutical, [68Ga]PSMA-11, in subcutaneous prostate cancer xenograft model mice. Scientific Reports, 2021, 11, 15263.	1.6	2
70	Effect of Peptide Receptor Radionuclide Therapy in Combination with Temozolomide against Tumor Angiogenesis in a Glioblastoma Model. Cancers, 2021, 13, 5029.	1.7	1
71	Synthesis and In Vivo Evaluation of a Kitâ€Type <scp>^{99m}Tc</scp>â€labeled		