Hisashi Doi

List of Publications by Year in descending order

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Ηιελεμι Ποι

#	Article	IF	CITATIONS
1	Clinical evaluation of [18F]pitavastatin for quantitative analysis of hepatobiliary transporter activity. Drug Metabolism and Pharmacokinetics, 2022, 44, 100449.	2.2	3
2	First-in-human assessment of the novel LAT1 targeting PET probe 18F-FIMP. Biochemical and Biophysical Research Communications, 2022, 596, 83-87.	2.1	9
3	[18F]DPA-714 PET imaging for the quantitative evaluation of early spatiotemporal changes of neuroinflammation in rat brain following status epilepticus. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 2265-2275.	6.4	10
4	PET imaging of 11C-labeled thiamine tetrahydrofurfuryl disulfide, vitamin B1 derivative: First-in-human study. Biochemical and Biophysical Research Communications, 2021, 555, 7-12.	2.1	3
5	Synthesis ofÂLâ€[5â€11C]Leucine andÂLâ€alfaâ€[5â€11C]Methylleucine via PdOâ€mediatedÂ11Câ€Methylation Microfluidic Hydrogenation: Potentiality of Leucine PET Probes for Tumor Imaging. ChemMedChem, 2021, 16, 3271-3279.	and 3.2	2
6	Pd 0 â€Mediated Crossâ€Coupling of [11 C]Methyl Iodide with Carboxysilane for Synthesis of [11 C]Acetic Acid and its Active Esters: 11 Câ€Acetylation of Small, Medium, and Large Molecules. European Journal of Organic Chemistry, 2021, 2021, 3970-3979.	2.4	1
7	PET imaging of brain aromatase in humans and rhesus monkeys by 11C-labeled cetrozole analogs. Scientific Reports, 2021, 11, 23623.	3.3	2
8	18F-FIMP: a LAT1-specific PET probe for discrimination between tumor tissue and inflammation. Scientific Reports, 2019, 9, 15718.	3.3	22
9	A novel Tungsten-based fiducial marker for multi-modal brain imaging. Journal of Neuroscience Methods, 2019, 323, 22-31.	2.5	5
10	PET imaging of 11C-labeled coenzyme Q10: Comparison of biodistribution between [11C]ubiquinol-10 and [11C]ubiquinone-10. Biochemical and Biophysical Research Communications, 2019, 512, 611-615.	2.1	10
11	Synthesis of <scp>¹¹</scp> Câ€labeled ubiquinone and ubiquinol via <scp>Pd⁰</scp> â€mediated rapid <scp><i>C</i>â€{¹¹C]</scp> methylation using [<scp>¹¹C</scp>]methyl iodide and 39â€demethylâ€39â€{pinacolboryl)ubiquinone. Journal of Labelled Compounds and Radiopharmaceuticals, 2019, 62, 86-94.	1.0	3
12	Amyloid-Negative Dementia in the Elderly is Associated with High Accumulation of Tau in the Temporal Lobes. Open Biomedical Engineering Journal, 2019, 13, 55-66.	0.5	1
13	PET Imaging Analysis of Vitamin B1 Kinetics with [11C]Thiamine and its Derivative [11C]Thiamine Tetrahydrofurfuryl Disulfide in Rats. Molecular Imaging and Biology, 2018, 20, 1001-1007.	2.6	4
14	P2â€361: AMYLOID AND TAU IMAGING IN PATIENTS WITH POSTERIOR CORTICAL ATROPHY. Alzheimer's and Dementia, 2018, 14, P829.	0.8	0
15	Association between aromatase in human brains and personality traits. Scientific Reports, 2018, 8, 16841.	3.3	21
16	Green Process of Three-Component Prostaglandin Synthesis and Rapid ¹¹ C Labelings for Short-Lived PET Tracers. , 2018, , .		2
17	Development of Diagnostic Techniques for Early Rheumatoid Arthritis Using Positron Emission Tomography with [11C]PK11195 and [11C]Ketoprofen Tracers. Molecular Imaging and Biology, 2017, 19, 746-753.	2.6	6
18	Solubilityâ€Improved 10â€ <i>O</i> â€Substituted SNâ€38 Derivatives with Antitumor Activity. ChemMedChem, 2017, 12, 1715-1722.	3.2	10

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19	MHC matching improves engraftment of iPSC-derived neurons in non-human primates. Nature Communications, 2017, 8, 385.	12.8	178
20	Blood–brain barrier permeability of ginkgolide: Comparison of the behavior of PET probes 7α-[18 F]fluoro- and 10- O - p -[11 C]methylbenzyl ginkgolide B in monkey and rat brains. Bioorganic and Medicinal Chemistry, 2016, 24, 5148-5157.	3.0	10
21	Marmoset Serotonin 5-HT _{1A} Receptor Mapping with a Biased Agonist PET Probe ¹⁸ F-F13714: Comparison with an Antagonist Tracer ¹⁸ F-MPPF in Awake and Anesthetized States. International Journal of Neuropsychopharmacology, 2016, 19, pyw079.	2.1	22
22	Exploratory human PET study of the effectiveness of 11C-ketoprofen methyl ester, a potential biomarker of neuroinflammatory processes in Alzheimer's disease. Nuclear Medicine and Biology, 2016, 43, 438-444.	0.6	33
23	Detection of Cyclooxygenase-1 in Activated Microglia During Amyloid Plaque Progression: PET Studies in Alzheimer's Disease Model Mice. Journal of Nuclear Medicine, 2016, 57, 291-296.	5.0	45
24	A novel 11C-labeled thymidine analog, [11C]AZT, for tumor imaging by positron emission tomography. EJNMMI Research, 2015, 5, 124.	2.5	9
25	Pdâ€mediated rapid crossâ€couplings using [¹¹ C]methyl iodide: groundbreaking labeling methods in ¹¹ C radiochemistry. Journal of Labelled Compounds and Radiopharmaceuticals, 2015, 58, 73-85.	1.0	25
26	Synthesis of ¹¹ C-Labeled Thiamine and Fursultiamine for in Vivo Molecular Imaging of Vitamin B ₁ and Its Prodrug Using Positron Emission Tomography. Journal of Organic Chemistry, 2015, 80, 6250-6258.	3.2	19
27	¹¹ C-Labeled Capsaicin and Its <i>in Vivo</i> Molecular Imaging in Rats by Positron Emission Tomography. Food and Nutrition Sciences (Print), 2015, 06, 216-220.	0.4	3
28	Efficient syntheses of [¹¹ C]zidovudine and its analogs by convenient oneâ€pot palladium(0)–copper(I) coâ€mediated rapid <i>C</i> â€{ ¹¹ C]methylation. Journal of Labelled Compounds and Radiopharmaceuticals, 2014, 57, 540-549.	1.0	12
29	Pd ⁰ â€Mediated Rapid Crossâ€Coupling Reactions, the Rapid <i>C</i> â€[¹¹ C]Methylations, Revolutionarily Advancing the Syntheses of Shortâ€Lived <scp>PET</scp> Molecular Probes. Chemical Record, 2014, 14, 516-541.	5.8	19
30	Quantitative evaluation of the improvement in the pharmacokinetics of a nucleic acid drug delivery system by dynamic PET imaging with 18F-incorporated oligodeoxynucleotides. Journal of Controlled Release, 2014, 180, 92-99.	9.9	20
31	A possible mechanism of the nucleus accumbens and ventral pallidum 5-HT1B receptors underlying the antidepressant action of ketamine: aÂPET study with macaques. Translational Psychiatry, 2014, 4, e342-e342.	4.8	67
32	¹¹ C-Cetrozole: An Improved C- ¹¹ C-Methylated PET Probe for Aromatase Imaging in the Brain. Journal of Nuclear Medicine, 2014, 55, 852-857.	5.0	31
33	Synthesis of 11C-labeled retinoic acid, [11C]ATRA, via an alkenylboron precursor by Pd(0)-mediated rapid C-[11C]methylation. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 3622-3625.	2.2	14
34	Human whole-body biodistribution and dosimetry of a new PET tracer, [11C]ketoprofen methyl ester, for imagings of neuroinflammation. Nuclear Medicine and Biology, 2014, 41, 594-599.	0.6	29
35	¹¹ C-Labeling of the C(1)-C(10) Dihydroxy Acid Moiety for the Study on the Synthesis of Kulokekahilide-2 PET Tracer. International Journal of Organic Chemistry, 2014, 04, 269-277.	0.7	3
36	Evaluation of dopamine D2/D3 and serotonin 5-HT2A receptor occupancy for a novel antipsychotic, lurasidone, in conscious common marmosets using small-animal positron emission tomography. Psychopharmacology, 2013, 225, 329-339.	3.1	14

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37	Synthesis of an ¹¹ C‣abeled Antiprion GN8 Derivative and Evaluation of Its Brain Uptake by Positron Emission Tomography. ChemMedChem, 2013, 8, 1035-1039.	3.2	9
38	The action site of the synthetic kainoid (2S,3R,4R)-3-carboxymethyl-4-(4-methylphenylthio)pyrrolidine-2-carboxylic acid (PSPA-4), an analogue of Japanese mushroom poison acromelic acid, for allodynia (tactile pain). European Journal of Pharmacology, 2013, 710, 120-127.	3.5	6
39	PdO-mediated rapid coupling of methyl iodide with excess amounts of benzyl- and cinnamylboronic acid esters: efficient method for incorporation of positron-emitting 11C radionuclide into organic frameworks by coupling between two sp3-hybridized carbons. RSC Advances, 2013, 3, 9391.	3.6	13
40	Dynamic Analysis of Fluid Distribution in the Gastrointestinal Tract in Rats: Positron Emission Tomography Imaging after Oral Administration of Nonabsorbable Marker, [¹⁸ F]Deoxyfluoropoly(ethylene glycol). Molecular Pharmaceutics, 2013, 10, 2261-2269.	4.6	31
41	Evaluation of TIOH Effect for Pd ⁰ -Mediated Cross-Coupling of Methyl lodide and Excess Boronic Acid Ester toward Fabrication of [¹¹ C]CH ₃ -Incorporated PET Tracer. International Journal of Organic Chemistry. 2013. 03. 220-223.	0.7	4
42	Increase of 20-HETE Synthase after Brain Ischemia in Rats Revealed by PET Study with ¹¹ C-Labeled 20-HETE Synthase-Specific Inhibitor. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1737-1746.	4.3	20
43	PdO-Mediated Rapid <i>C</i> -[18F]Fluoromethylation by the Cross-Coupling Reaction of a [18F]Fluoromethyl Halide with an Arylboronic Acid Ester: Novel Method for the Synthesis of a 18F-Labeled Molecular Probe for Positron Emission Tomography. Bulletin of the Chemical Society of Japan, 2012, 85, 1233-1238.	3.2	20
44	PdO–Mediated Rapid C–[11C]Methylation and C–[18F]Fluoromethylation: Revolutionary Advanced Methods for General Incorporation of Short–Lived Positron–Emitting 11C and 18F Radionuclides in an Organic Framework. , 2012, , .		3
45	PET Imaging–Based Evaluation of Hepatobiliary Transport in Humans with (15 <i>R</i>)- ¹¹ C-TIC-Me. Journal of Nuclear Medicine, 2012, 53, 741-748.	5.0	101
46	Synthesis of [11C]uric acid, using [11C]phosgene, as a possible biomarker in PET imaging for diagnosis of gout. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 115-119.	2.2	12
47	Efficient synthesis of [11C]H-1152, a PET probe specific for Rho-kinases, highly potential targets in diagnostic medicine and drug development. Tetrahedron, 2012, 68, 2336-2341.	1.9	15
48	Highly efficient syntheses of [methyl-11C]thymidine and its analogue 4′-[methyl-11C]thiothymidine as nucleoside PET probes for cancer cell proliferation by Pd0-mediated rapid C-[11C]methylation. Organic and Biomolecular Chemistry, 2011, 9, 4287.	2.8	16
49	Increase in hypothalamic aromatase in macaque monkeys treated with anabolic-androgenic steroids. NeuroReport, 2011, 22, 326-330.	1.2	10
50	Efficient Synthesis of [11C]Ramelteon as a Positron Emission Tomography Probe for Imaging Melatonin Receptors Involved in Circadian Rhythms. Chemical and Pharmaceutical Bulletin, 2011, 59, 1062-1064.	1.3	7
51	Stoichiometry-focused 18F-labeling of alkyne-substituted oligodeoxynucleotides using azido([18F]fluoromethyl)benzenes by Cu-catalyzed Huisgen reaction. Bioorganic and Medicinal Chemistry, 2011, 19, 249-255.	3.0	18
52	Practical synthesis of precursor of [N-methyl-11C]vorozole, an efficient PET tracer targeting aromatase in the brain. Bioorganic and Medicinal Chemistry, 2011, 19, 1464-1470.	3.0	27
53	Efficient sequential synthesis of PET Probes of the COX-2 inhibitor [11C]celecoxib and its major metabolite [11C]SC-62807 and in vivo PET evaluation. Bioorganic and Medicinal Chemistry, 2011, 19, 2997-3004.	3.0	32
54	Synthesis of an acromelic acid A analog-based 11C-labeled PET tracer for exploration of the site of action of acromelic acid A in allodynia induction. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 2017-2020.	2.2	21

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55	In Vivo Expression of Cyclooxygenase-1 in Activated Microglia and Macrophages During Neuroinflammation Visualized by PET with ¹¹ C-Ketoprofen Methyl Ester. Journal of Nuclear Medicine, 2011, 52, 1094-1101.	5.0	80
56	Developmental Changes in P-Glycoprotein Function in the Blood–Brain Barrier of Nonhuman Primates: PET Study with <i>R</i> - ¹¹ C-Verapamil and ¹¹ C-Oseltamivir. Journal of Nuclear Medicine, 2011, 52, 950-957.	5.0	45
57	PET of Aromatase in Gastric Parietal Cells Using ¹¹ C-Vorozole. Journal of Nuclear Medicine, 2011, 52, 1964-1969.	5.0	11
58	General Method for the ¹¹ Câ€Labeling of 2â€Arylpropionic Acids and Their Esters: Construction of a PET Tracer Library for a Study of Biological Events Involved in COXs Expression. Chemistry - A European Journal, 2010, 16, 4250-4258.	3.3	52
59	Mapping of serotonin transporters by positron emission tomography with [¹¹ c]DASB in conscious common marmosets: Comparison with rhesus monkeys. Synapse, 2010, 64, 594-601.	1.2	29
60	PdO-Mediated Rapid C-[11C]Methylations and C-[18F]Fluoromethylations: Revolutionary New Methodologies for the Synthesis of Short-Lived PET Molecular Probes. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2010, 68, 1195-1206.	0.1	12
61	Positron Emission Tomography Studies Using (15 <i>R</i>)-16- <i>m</i> -[¹¹ C]tolyl-17,18,19,20-tetranorisocarbacyclin Methyl Ester for the Evaluation of Hepatobiliary Transport. Journal of Pharmacology and Experimental Therapeutics, 2010, 335, 314-323.	2.5	45
62	11C-Labeled cetrozole: an excellent PET probe for aromatase in brain in emotional disorders. Neuroscience Research, 2010, 68, e446.	1.9	0
63	¹¹ C-PK11195 PET for the In Vivo Evaluation of Neuroinflammation in the Rat Brain After Cortical Spreading Depression. Journal of Nuclear Medicine, 2009, 50, 1904-1911.	5.0	42
64	Palladium(0)â€Mediated Rapid Methylation and Fluoromethylation on Carbon Frameworks by Reacting Methyl and Fluoromethyl Iodide with Aryl and Alkenyl Boronic Acid Esters: Useful for the Synthesis of [¹¹ C]CH ₃ C―and [¹⁸ F]FCH ₂ Câ€Containing PET Tracers (PET=Positron Emission Tomography). Chemistry - A European Journal, 2009, 15, 4165-4171.	3.3	87
65	Pd ⁰ â€Mediated Rapid Coupling between Methyl Iodide and Heteroarylstannanes: An Efficient and General Method for the Incorporation of a Positronâ€Emitting ¹¹ C Radionuclide into Heteroaromatic Frameworks. Chemistry - A European Journal, 2009, 15, 12489-12495.	3.3	29
66	Evaluation of pathophysiological features of migraine using micro PET. Neuroscience Research, 2009, 65, S258.	1.9	0
67	Rapid methylation on carbon frameworks useful for the synthesis of 11CH3-incorporated PET tracers: Pd(0)-mediated rapid coupling of methyl iodide with an alkenyltributylstannane leading to a 1-methylalkene. Organic and Biomolecular Chemistry, 2006, 4, 410.	2.8	71
68	Synthesis of diethyl [carbonyl-11C]malonate from [11C]carbon monoxide by rhodium-promoted carbonylation and its application as a reaction intermediate. Journal of Labelled Compounds and Radiopharmaceuticals, 2006, 49, 801-809.	1.0	21
69	Rapid Methylation of Terminal Acetylenes by the Stille Coupling of Methyl Iodide with Alkynyltributylstannanes: A General Protocol Potentially Useful for the Synthesis of Short-Lived11CH3-Labeled PET Tracers with a 1-Propynyl Group ChemInform, 2004, 35, no.	0.0	0
70	Rapid methylation on carbon frameworks leading to the synthesis of a PET tracer capable of imaging a novel CNS-type prostacyclin receptor in living human brain. TrAC - Trends in Analytical Chemistry, 2004, 23, 595-607.	11.4	38
71	Synthesis of11C-labelled N,N′-diphenylurea and ethyl phenylcarbamate by a rhodium-promoted carbonylation via [11C]isocyanatobenzene using phenyl azide and [11C]carbon monoxide. Organic and Biomolecylar Chemistry, 2004, 2, 3063-3066 he Stille coupling of methyl iodide with	2.8	63
72	alkynyltributylstannanes: a general protocol potentially useful for the synthesis of short-lived 11CH3-labeled PET tracers with a 1-propynyl groupElectronic supplementary information (ESI) available: general experimental remarks and synthetic methods and characterization of tributylalkynylstannanes and the corresponding methylacetylenes. See http://www.rsc.org/suppdata/ob/b3/b311532a/. Organic and Biomolecular Chemistry, 2004, 2, 24.	2.8	37

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73	Synthesis of a11C-labelled prostaglandin F2α analogue using an improved method for stille reactions with [11C]methyl iodide. Journal of Labelled Compounds and Radiopharmaceuticals, 2000, 43, 1327-1334.	1.0	53
74	Rapid Methylation for the Synthesis of a 11C-Labeled Tolylisocarbacyclin Imaging the IP2 Receptor in a Living Human Brain. Tetrahedron, 2000, 56, 8263-8273.	1.9	52
75	Ring-enlargement reaction of alkylidenecarbenes bearing a cyclic ether or acetal group. Formation of medium-sized cyclic enol ethers or dienol ethers via bicycloalkenyloxonium ylides. Journal of the Chemical Society Perkin Transactions 1, 1998, , 3623-3628.	0.9	12
76	Synthesis of 11C/13C-Labelled Prostacyclins Acta Chemica Scandinavica, 1998, 52, 635-640.	0.7	40
77	Rapid Coupling of Methyl Iodide with Aryltributylstannanes Mediated by Palladium(0) Complexes: A General Protocol for the Synthesis of ¹¹ CH ₃ ‣abeled PET Tracers. Chemistry - A European Journal, 1997, 3, 2039-2042.	3.3	79