

# Hisashi Doi

## List of Publications by Year in descending order

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77  
papers

1,930  
citations

236925

25  
h-index

276875

41  
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86  
all docs

86  
docs citations

86  
times ranked

2072  
citing authors

#	ARTICLE	IF	CITATIONS
1	MHC matching improves engraftment of iPSC-derived neurons in non-human primates. <i>Nature Communications</i> , 2017, 8, 385.	12.8	178
2	PET Imaging-Based Evaluation of Hepatobiliary Transport in Humans with (15R)-11C-TIC-Me. <i>Journal of Nuclear Medicine</i> , 2012, 53, 741-748.	5.0	101
3	Palladium(0)-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 11C-CH <sub>3</sub> and 18F-FCH <sub>2</sub> -Containing PET Tracers (PET=Positron Emission Tomography). <i>Chemistry - A European Journal</i> , 2009, 15, 4165-4171.	3.3	87
4	In Vivo Expression of Cyclooxygenase-1 in Activated Microglia and Macrophages During Neuroinflammation Visualized by PET with 11C-Ketoprofen Methyl Ester. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1094-1101.	5.0	80
5	Rapid Coupling of Methyl Iodide with Aryltributylstannanes Mediated by Palladium(0) Complexes: A General Protocol for the Synthesis of 11C-CH <sub>3</sub> -Labeled PET Tracers. <i>Chemistry - A European Journal</i> , 1997, 3, 2039-2042.	3.3	79
6	Rapid methylation on carbon frameworks useful for the synthesis of 11CH <sub>3</sub> -incorporated PET tracers: Pd(0)-mediated rapid coupling of methyl iodide with an alkenyltributylstannane leading to a 1-methylalkene. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 410.	2.8	71
7	A possible mechanism of the nucleus accumbens and ventral pallidum 5-HT <sub>1B</sub> receptors underlying the antidepressant action of ketamine: a PET study with macaques. <i>Translational Psychiatry</i> , 2014, 4, e342-e342.	4.8	67
8	Synthesis of 11C-labelled N,N'-diphenylurea and ethyl phenylcarbamate by a rhodium-promoted carbonylation via [11C]isocyanatobenzene using phenyl azide and [11C]carbon monoxide. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 3063-3066.	2.8	63
9	Synthesis of a 11C-labelled prostaglandin F <sub>2</sub> analogue using an improved method for stille reactions with [11C]methyl iodide. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2000, 43, 1327-1334.	1.0	53
10	Rapid Methylation for the Synthesis of a 11C-Labeled Tolyisocarbacyclin Imaging the IP <sub>2</sub> Receptor in a Living Human Brain. <i>Tetrahedron</i> , 2000, 56, 8263-8273.	1.9	52
11	General Method for the 11C-Labeling of Arylpropionic Acids and Their Esters: Construction of a PET Tracer Library for a Study of Biological Events Involved in COXs Expression. <i>Chemistry - A European Journal</i> , 2010, 16, 4250-4258.	3.3	52
12	Positron Emission Tomography Studies Using (15R)-16-m-[11C]tolyl-17,18,19,20-tetranorisocarbacyclin Methyl Ester for the Evaluation of Hepatobiliary Transport. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 335, 314-323.	2.5	45
13	Developmental Changes in P-Glycoprotein Function in the Blood-Brain Barrier of Nonhuman Primates: PET Study with (15R)-11C-Verapamil and 11C-Osetamivir. <i>Journal of Nuclear Medicine</i> , 2011, 52, 950-957.	5.0	45
14	Detection of Cyclooxygenase-1 in Activated Microglia During Amyloid Plaque Progression: PET Studies in Alzheimer's Disease Model Mice. <i>Journal of Nuclear Medicine</i> , 2016, 57, 291-296.	5.0	45
15	11C-PK11195 PET for the In Vivo Evaluation of Neuroinflammation in the Rat Brain After Cortical Spreading Depression. <i>Journal of Nuclear Medicine</i> , 2009, 50, 1904-1911.	5.0	42
16	Synthesis of 11C/13C-Labelled Prostacyclins.. <i>Acta Chemica Scandinavica</i> , 1998, 52, 635-640.	0.7	40
17	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. <i>TrAC - Trends in Analytical Chemistry</i> , 2004, 23, 595-607.	11.4	38
18	Rapid methylation of terminal acetylenes by the Stille coupling of methyl iodide with alkenyltributylstannanes: a general protocol potentially useful for the synthesis of short-lived 11CH <sub>3</sub> -labeled PET tracers with a 1-propynyl group. Electronic supplementary information (ESI) available: general experimental remarks and synthetic methods and characterization of tributylalkynylstannanes and the corresponding methylacetylenes. See <a href="http://www.rsc.org/suppdata/ob/b3/b311532a/">http://www.rsc.org/suppdata/ob/b3/b311532a/</a> . <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 24.	2.8	37

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19	Exploratory human PET study of the effectiveness of <sup>11</sup> C-ketoprofen methyl ester, a potential biomarker of neuroinflammatory processes in Alzheimer's disease. <i>Nuclear Medicine and Biology</i> , 2016, 43, 438-444.	0.6	33
20	Efficient sequential synthesis of PET Probes of the COX-2 inhibitor [ <sup>11</sup> C]celecoxib and its major metabolite [ <sup>11</sup> C]SC-62807 and in vivo PET evaluation. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 2997-3004.	3.0	32
21	Dynamic Analysis of Fluid Distribution in the Gastrointestinal Tract in Rats: Positron Emission Tomography Imaging after Oral Administration of Nonabsorbable Marker, [ <sup>18</sup> F]Deoxyfluoropoly(ethylene glycol). <i>Molecular Pharmaceutics</i> , 2013, 10, 2261-2269.	4.6	31
22	<sup>11</sup> C-Cetrozole: An Improved C- <sup>11</sup> C-Methylated PET Probe for Aromatase Imaging in the Brain. <i>Journal of Nuclear Medicine</i> , 2014, 55, 852-857.	5.0	31
23	Pd <sup>0</sup> -Mediated Rapid Coupling between Methyl Iodide and Heteroarylstannanes: An Efficient and General Method for the Incorporation of a Positron-Emitting <sup>11</sup> C Radionuclide into Heteroaromatic Frameworks. <i>Chemistry - A European Journal</i> , 2009, 15, 12489-12495.	3.3	29
24	Mapping of serotonin transporters by positron emission tomography with [ <sup>11</sup> C]DASB in conscious common marmosets: Comparison with rhesus monkeys. <i>Synapse</i> , 2010, 64, 594-601.	1.2	29
25	Human whole-body biodistribution and dosimetry of a new PET tracer, [ <sup>11</sup> C]ketoprofen methyl ester, for imagings of neuroinflammation. <i>Nuclear Medicine and Biology</i> , 2014, 41, 594-599.	0.6	29
26	Practical synthesis of precursor of [N-methyl- <sup>11</sup> C]vorozole, an efficient PET tracer targeting aromatase in the brain. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1464-1470.	3.0	27
27	Pd-mediated rapid cross-couplings using [ <sup>11</sup> C]methyl iodide: groundbreaking labeling methods in <sup>11</sup> C radiochemistry. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2015, 58, 73-85.	1.0	25
28	Marmoset Serotonin 5-HT <sub>1A</sub> Receptor Mapping with a Biased Agonist PET Probe <sup>18</sup> F-F13714: Comparison with an Antagonist Tracer <sup>18</sup> F-MPPF in Awake and Anesthetized States. <i>International Journal of Neuropsychopharmacology</i> , 2016, 19, pyw079.	2.1	22
29	<sup>18</sup> F-FIMP: a LAT1-specific PET probe for discrimination between tumor tissue and inflammation. <i>Scientific Reports</i> , 2019, 9, 15718.	3.3	22
30	Synthesis of diethyl [carbonyl- <sup>11</sup> C]malonate from [ <sup>11</sup> C]carbon monoxide by rhodium-promoted carbonylation and its application as a reaction intermediate. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2006, 49, 801-809.	1.0	21
31	Synthesis of an acromelic acid A analog-based <sup>11</sup> C-labeled PET tracer for exploration of the site of action of acromelic acid A in allodynia induction. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 2017-2020.	2.2	21
32	Association between aromatase in human brains and personality traits. <i>Scientific Reports</i> , 2018, 8, 16841.	3.3	21
33	Increase of 20-HETE Synthase after Brain Ischemia in Rats Revealed by PET Study with <sup>11</sup> C-Labeled 20-HETE Synthase-Specific Inhibitor. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 1737-1746.	4.3	20
34	Pd <sup>0</sup> -Mediated Rapid <sup>11</sup> C-[ <sup>18</sup> F]Fluoromethylation by the Cross-Coupling Reaction of a [ <sup>18</sup> F]Fluoromethyl Halide with an Arylboronic Acid Ester: Novel Method for the Synthesis of a <sup>18</sup> F-Labeled Molecular Probe for Positron Emission Tomography. <i>Bulletin of the Chemical Society of Japan</i> , 2012, 85, 1233-1238.	3.2	20
35	Quantitative evaluation of the improvement in the pharmacokinetics of a nucleic acid drug delivery system by dynamic PET imaging with <sup>18</sup> F-incorporated oligodeoxynucleotides. <i>Journal of Controlled Release</i> , 2014, 180, 92-99.	9.9	20
36	Pd <sup>0</sup> -Mediated Rapid Cross-Coupling Reactions, the Rapid <sup>11</sup> C-Methylations, Revolutionarily Advancing the Syntheses of Short-Lived <sup>11</sup> C-PET Molecular Probes. <i>Chemical Record</i> , 2014, 14, 516-541.	5.8	19

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37	Synthesis of <sup>11</sup> C-Labeled Thiamine and Fursultiamine for in Vivo Molecular Imaging of Vitamin B <sub>1</sub> and Its Prodrug Using Positron Emission Tomography. <i>Journal of Organic Chemistry</i> , 2015, 80, 6250-6258.	3.2	19
38	Stoichiometry-focused <sup>18</sup> F-labeling of alkyne-substituted oligodeoxynucleotides using azido([ <sup>18</sup> F]fluoromethyl)benzenes by Cu-catalyzed Huisgen reaction. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 249-255.	3.0	18
39	Highly efficient syntheses of [methyl- <sup>11</sup> C]thymidine and its analogue 4- <sup>11</sup> C-thiothymidine as nucleoside PET probes for cancer cell proliferation by Pd <sup>0</sup> -mediated rapid C-[ <sup>11</sup> C]methylation. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 4287.	2.8	16
40	Efficient synthesis of [ <sup>11</sup> C]H-1152, a PET probe specific for Rho-kinases, highly potential targets in diagnostic medicine and drug development. <i>Tetrahedron</i> , 2012, 68, 2336-2341.	1.9	15
41	Evaluation of dopamine D <sub>2</sub> /D <sub>3</sub> and serotonin 5-HT <sub>2A</sub> receptor occupancy for a novel antipsychotic, lurasidone, in conscious common marmosets using small-animal positron emission tomography. <i>Psychopharmacology</i> , 2013, 225, 329-339.	3.1	14
42	Synthesis of <sup>11</sup> C-labeled retinoic acid, [ <sup>11</sup> C]ATRA, via an alkenylboron precursor by Pd(0)-mediated rapid C-[ <sup>11</sup> C]methylation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 3622-3625.	2.2	14
43	Pd <sup>0</sup> -mediated rapid coupling of methyl iodide with excess amounts of benzyl- and cinnamylboronic acid esters: efficient method for incorporation of positron-emitting <sup>11</sup> C radionuclide into organic frameworks by coupling between two sp <sup>3</sup> -hybridized carbons. <i>RSC Advances</i> , 2013, 3, 9391.	3.6	13
44	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. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1998, , 3623-3628.	0.9	12
45	Pd <sup>0</sup> -Mediated Rapid C-[ <sup>11</sup> C]Methylations and C-[ <sup>18</sup> F]Fluoromethylations: Revolutionary New Methodologies for the Synthesis of Short-Lived PET Molecular Probes. Yuki Goseki Kagaku Kyokaiishi/ <i>Journal of Synthetic Organic Chemistry</i> , 2010, 68, 1195-1206.	0.1	12
46	Synthesis of [ <sup>11</sup> C]uric acid, using [ <sup>11</sup> C]phosgene, as a possible biomarker in PET imaging for diagnosis of gout. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 115-119.	2.2	12
47	Efficient syntheses of [ <sup>11</sup> C]zidovudine and its analogs by convenient one-pot palladium(0)-copper(I) co-mediated rapid C-[ <sup>11</sup> C]methylation. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2014, 57, 540-549.	1.0	12
48	PET of Aromatase in Gastric Parietal Cells Using <sup>11</sup> C-Vorozole. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1964-1969.	5.0	11
49	Increase in hypothalamic aromatase in macaque monkeys treated with anabolic-androgenic steroids. <i>NeuroReport</i> , 2011, 22, 326-330.	1.2	10
50	Blood-brain barrier permeability of ginkgolide: Comparison of the behavior of PET probes <sup>18</sup> F-fluoro- and 10-O-p-[ <sup>11</sup> C]methylbenzyl ginkgolide B in monkey and rat brains. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 5148-5157.	3.0	10
51	Solubility-improved 10-Substituted SN <sub>3</sub> Derivatives with Antitumor Activity. <i>ChemMedChem</i> , 2017, 12, 1715-1722.	3.2	10
52	PET imaging of <sup>11</sup> C-labeled coenzyme Q <sub>10</sub> : Comparison of biodistribution between [ <sup>11</sup> C]ubiquinol-10 and [ <sup>11</sup> C]ubiquinone-10. <i>Biochemical and Biophysical Research Communications</i> , 2019, 512, 611-615.	2.1	10
53	[ <sup>18</sup> F]DPA-714 PET imaging for the quantitative evaluation of early spatiotemporal changes of neuroinflammation in rat brain following status epilepticus. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 2265-2275.	6.4	10
54	Synthesis of an <sup>11</sup> C-Labeled Antiprion GN8 Derivative and Evaluation of Its Brain Uptake by Positron Emission Tomography. <i>ChemMedChem</i> , 2013, 8, 1035-1039.	3.2	9

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55	A novel <sup>11</sup> C-labeled thymidine analog, [ <sup>11</sup> C]AZT, for tumor imaging by positron emission tomography. <i>EJNMMI Research</i> , 2015, 5, 124.	2.5	9
56	First-in-human assessment of the novel LAT1 targeting PET probe 18F-FIMP. <i>Biochemical and Biophysical Research Communications</i> , 2022, 596, 83-87.	2.1	9
57	Efficient Synthesis of [ <sup>11</sup> C]Ramelteon as a Positron Emission Tomography Probe for Imaging Melatonin Receptors Involved in Circadian Rhythms. <i>Chemical and Pharmaceutical Bulletin</i> , 2011, 59, 1062-1064.	1.3	7
58	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). <i>European Journal of Pharmacology</i> , 2013, 710, 120-127.	3.5	6
59	Development of Diagnostic Techniques for Early Rheumatoid Arthritis Using Positron Emission Tomography with [ <sup>11</sup> C]PK11195 and [ <sup>11</sup> C]Ketoprofen Tracers. <i>Molecular Imaging and Biology</i> , 2017, 19, 746-753.	2.6	6
60	A novel Tungsten-based fiducial marker for multi-modal brain imaging. <i>Journal of Neuroscience Methods</i> , 2019, 323, 22-31.	2.5	5
61	PET Imaging Analysis of Vitamin B1 Kinetics with [ <sup>11</sup> C]Thiamine and its Derivative [ <sup>11</sup> C]Thiamine Tetrahydrofurfuryl Disulfide in Rats. <i>Molecular Imaging and Biology</i> , 2018, 20, 1001-1007.	2.6	4
62	Evaluation of TIOH Effect for Pd <sup>0</sup> -Mediated Cross-Coupling of Methyl Iodide and Excess Boronic Acid Ester toward Fabrication of [ <sup>11</sup> C]CH <sub>3</sub> -Incorporated PET Tracer. <i>International Journal of Organic Chemistry</i> , 2013, 03, 220-223.	0.7	4
63	Pd <sup>0</sup> -Mediated Rapid <sup>11</sup> C- and [ <sup>18</sup> F]Fluoromethylation: Revolutionary Advanced Methods for General Incorporation of Short-Lived Positron-Emitting <sup>11</sup> C and <sup>18</sup> F Radionuclides in an Organic Framework. , 2012, , .		3
64	Synthesis of <sup>11</sup> C-labeled ubiquinone and ubiquinol via Pd <sup>0</sup> -mediated rapid <sup>11</sup> C-methylation using [ <sup>11</sup> C]methyl iodide and 39-(demethyl-39-(pinacolboryl)ubiquinone. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2019, 62, 86-94.	1.0	3
65	PET imaging of <sup>11</sup> C-labeled thiamine tetrahydrofurfuryl disulfide, vitamin B1 derivative: First-in-human study. <i>Biochemical and Biophysical Research Communications</i> , 2021, 555, 7-12.	2.1	3
66	<sup>11</sup> C-Labeled Capsaicin and Its <i>In Vivo</i> ; <i>Molecular Imaging in Rats by Positron Emission Tomography</i> . <i>Food and Nutrition Sciences (Print)</i> , 2015, 06, 216-220.	0.4	3
67	<sup>11</sup> C-Labeling of the C(1)-C(10) Dihydroxy Acid Moiety for the Study on the Synthesis of Kulokekahlilde-2 PET Tracer. <i>International Journal of Organic Chemistry</i> , 2014, 04, 269-277.	0.7	3
68	Clinical evaluation of [ <sup>18</sup> F]pitavastatin for quantitative analysis of hepatobiliary transporter activity. <i>Drug Metabolism and Pharmacokinetics</i> , 2022, 44, 100449.	2.2	3
69	Green Process of Three-Component Prostaglandin Synthesis and Rapid <sup>11</sup> C Labelings for Short-Lived PET Tracers. , 2018, , .		2
70	Synthesis of [ <sup>11</sup> C]Leucine and [ <sup>11</sup> C]Methylleucine via Pd <sup>0</sup> -Mediated <sup>11</sup> C-Methylation and Microfluidic Hydrogenation: Potentiality of Leucine PET Probes for Tumor Imaging. <i>ChemMedChem</i> , 2021, 16, 3271-3279.	3.2	2
71	PET imaging of brain aromatase in humans and rhesus monkeys by <sup>11</sup> C-labeled cetrozole analogs. <i>Scientific Reports</i> , 2021, 11, 23623.	3.3	2
72	Pd <sup>0</sup> -Mediated Cross-Coupling of [ <sup>11</sup> C]Methyl Iodide with Carboxysilane for Synthesis of [ <sup>11</sup> C]Acetic Acid and its Active Esters: <sup>11</sup> C-Acetylation of Small, Medium, and Large Molecules. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 3970-3979.	2.4	1

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73	Amyloid-Negative Dementia in the Elderly is Associated with High Accumulation of Tau in the Temporal Lobes. <i>Open Biomedical Engineering Journal</i> , 2019, 13, 55-66.	0.5	1
74	Rapid Methylation of Terminal Acetylenes by the Stille Coupling of Methyl Iodide with Alkynyltributylstannanes: A General Protocol Potentially Useful for the Synthesis of Short-Lived $^{11}\text{C}$ -Labeled PET Tracers with a 1-Propynyl Group.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
75	Evaluation of pathophysiological features of migraine using micro PET. <i>Neuroscience Research</i> , 2009, 65, S258.	1.9	0
76	$^{11}\text{C}$ -Labeled cetrozole: an excellent PET probe for aromatase in brain in emotional disorders. <i>Neuroscience Research</i> , 2010, 68, e446.	1.9	0
77	P2â€³61: AMYLOID AND TAU IMAGING IN PATIENTS WITH POSTERIOR CORTICAL ATROPHY. <i>Alzheimer's and Dementia</i> , 2018, 14, P829.	0.8	0