

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	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 of ^{11}C -Leucine and ^{11}C -Methylleucine via Pd-mediated ^{11}C -Methylation and Microfluidic Hydrogenation: Potentiality of Leucine PET Probes for Tumor Imaging. ChemMedChem, 2021, 16, 3271-3279.	3.2	2
6	Pd 0-mediated Cross-Coupling of [11C]Methyl Iodide with Carboxysilane for Synthesis of [11C]Acetic Acid and its Active Esters: 11C-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 ^{11}C -labeled ubiquinone and ubiquinol via Pd-mediated rapid ^{11}C -methylation using [^{11}C]methyl iodide and 39-demethyl-39-(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	P261: 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	Solubility-Improved 10-Substituted SN38 Derivatives with Antitumor Activity. ChemMedChem, 2017, 12, 1715-1722.	3.2	10

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37	Synthesis of an ¹¹ 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
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). <i>European Journal of Pharmacology</i> , 2013, 710, 120-127.	3.5	6
39	Pd ⁰ -mediated rapid coupling of methyl iodide with excess amounts of benzyl- and cinnamylboronic acid esters: efficient method for incorporation of positron-emitting ¹¹ C radionuclide into organic frameworks by coupling between two sp ³ -hybridized carbons. <i>RSC Advances</i> , 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). <i>Molecular Pharmaceutics</i> , 2013, 10, 2261-2269.	4.6	31
41	Evaluation of TIOH Effect for Pd ⁰ -Mediated Cross-Coupling of Methyl Iodide and Excess Boronic Acid Ester toward Fabrication of [¹¹ C]CH ₃ -Incorporated PET Tracer. <i>International Journal of Organic Chemistry</i> , 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. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 1737-1746.	4.3	20
43	Pd ⁰ -Mediated Rapid ¹⁸ F-Fluoromethylation by the Cross-Coupling Reaction of a [¹⁸ F]Fluoromethyl Halide with an Arylboronic Acid Ester: Novel Method for the Synthesis of a ¹⁸ F-Labeled Molecular Probe for Positron Emission Tomography. <i>Bulletin of the Chemical Society of Japan</i> , 2012, 85, 1233-1238.	3.2	20
44	Pd ⁰ -Mediated Rapid [¹¹ C]Methylation and [¹⁸ F]Fluoromethylation: Revolutionary Advanced Methods for General Incorporation of Short-Lived Positron-Emitting ¹¹ C and ¹⁸ F Radionuclides in an Organic Framework. , 2012, , .		3
45	PET Imaging-Based Evaluation of Hepatobiliary Transport in Humans with (¹⁵ R)- ¹¹ C-TIC-Me. <i>Journal of Nuclear Medicine</i> , 2012, 53, 741-748.	5.0	101
46	Synthesis of [¹¹ C]uric acid, using [¹¹ 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 synthesis of [¹¹ 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
48	Highly efficient syntheses of [methyl- ¹¹ C]thymidine and its analogue 4 ² -[methyl- ¹¹ C]thiothymidine as nucleoside PET probes for cancer cell proliferation by Pd ⁰ -mediated rapid C-[¹¹ C]methylation. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 4287.	2.8	16
49	Increase in hypothalamic aromatase in macaque monkeys treated with anabolic-androgenic steroids. <i>NeuroReport</i> , 2011, 22, 326-330.	1.2	10
50	Efficient Synthesis of [¹¹ 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
51	Stoichiometry-focused ¹⁸ F-labeling of alkyne-substituted oligodeoxynucleotides using azido([¹⁸ F]fluoromethyl)benzenes by Cu-catalyzed Huisgen reaction. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 249-255.	3.0	18
52	Practical synthesis of precursor of [N-methyl- ¹¹ C]vorozole, an efficient PET tracer targeting aromatase in the brain. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1464-1470.	3.0	27
53	Efficient sequential synthesis of PET Probes of the COX-2 inhibitor [¹¹ C]celecoxib and its major metabolite [¹¹ C]SC-62807 and in vivo PET evaluation. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 2997-3004.	3.0	32
54	Synthesis of an acromelic acid A analog-based ¹¹ 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

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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. <i>Journal of Nuclear Medicine</i> , 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 ¹¹ C-Verapamil and ¹¹ C-Oseltamivir. <i>Journal of Nuclear Medicine</i> , 2011, 52, 950-957.	5.0	45
57	PET of Aromatase in Gastric Parietal Cells Using ¹¹ C-Vorozole. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1964-1969.	5.0	11
58	General Method for the ¹¹ C-Labeling of α -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
59	Mapping of serotonin transporters by positron emission tomography with [¹¹ C]DASB in conscious common marmosets: Comparison with rhesus monkeys. <i>Synapse</i> , 2010, 64, 594-601.	1.2	29
60	Pd ⁰ -Mediated Rapid C-[¹¹ C]Methylations and C-[¹⁸ F]Fluoromethylations: Revolutionary New Methodologies for the Synthesis of Short-Lived PET Molecular Probes. Yuki Gosei Kagaku Kyokaiishi/ <i>Journal of Synthetic Organic Chemistry</i> , 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. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 335, 314-323.	2.5	45
62	¹¹ C-Labeled cetrozole: an excellent PET probe for aromatase in brain in emotional disorders. <i>Neuroscience Research</i> , 2010, 68, e446.	1.9	0
63	¹¹ C-PK1195 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
64	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 [¹¹ C]CH ₃ and [¹⁸ F]FCH ₂ -Containing PET Tracers (PET=Positron Emission Tomography). <i>Chemistry - A European Journal</i> , 2009, 15, 4165-4171.	3.3	87
65	Pd ⁰ -Mediated Rapid Coupling between Methyl Iodide and Heteroarylstannanes: An Efficient and General Method for the Incorporation of a Positron-Emitting ¹¹ C Radionuclide into Heteroatomic Frameworks. <i>Chemistry - A European Journal</i> , 2009, 15, 12489-12495.	3.3	29
66	Evaluation of pathophysiological features of migraine using micro PET. <i>Neuroscience Research</i> , 2009, 65, S258.	1.9	0
67	Rapid methylation on carbon frameworks useful for the synthesis of ¹¹ CH ₃ -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
68	Synthesis of diethyl [carbonyl- ¹¹ C]malonate from [¹¹ 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
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-Lived ¹¹ CH ₃ -Labeled PET Tracers with a 1-Propynyl Group.. <i>ChemInform</i> , 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. <i>TrAC - Trends in Analytical Chemistry</i> , 2004, 23, 595-607.	11.4	38
71	Synthesis of ¹¹ C-labelled N,N ² -diphenylurea and ethyl phenylcarbamate by a rhodium-promoted carbonylation via [¹¹ C]isocyanatobenzene using phenyl azide and [¹¹ C]carbon monoxide. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 3063-3066.	2.8	63
72	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 CH ₃ -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 http://www.rsc.org/suppdata/ob/b3/b311532a/ . <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 24.	2.8	37

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73	Synthesis of a ¹¹ C-labelled prostaglandin F ₂ analogue using an improved method for stille reactions with [¹¹ C]methyl iodide. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2000, 43, 1327-1334.	1.0	53
74	Rapid Methylation for the Synthesis of a ¹¹ C-Labeled Tollysocarbacyclin Imaging the IP ₂ Receptor in a Living Human Brain. <i>Tetrahedron</i> , 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. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1998, , 3623-3628.	0.9	12
76	Synthesis of ¹¹ C/ ¹³ C-Labelled Prostacyclins.. <i>Acta Chemica Scandinavica</i> , 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 C-Labelled PET Tracers. <i>Chemistry - A European Journal</i> , 1997, 3, 2039-2042.	3.3	79