

Masahiro Ono

List of Publications by Year in descending order

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97
papers

2,827
citations

159585
30
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197818
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97
docs citations

97
times ranked

2557
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart Near-Infrared Fluorescence Probes with Donor–Acceptor Structure for in Vivo Detection of β -Amyloid Deposits. <i>Journal of the American Chemical Society</i> , 2014, 136, 3388-3394.	13.7	242
2	^{11}C -labeled stilbene derivatives as $\text{A}\beta$ -aggregate-specific PET imaging agents for Alzheimer's disease. <i>Nuclear Medicine and Biology</i> , 2003, 30, 565-571.	0.6	212
3	Benzofuran derivatives as $\text{A}\beta$ -aggregate-specific imaging agents for Alzheimer's disease. <i>Nuclear Medicine and Biology</i> , 2002, 29, 633-642.	0.6	129
4	Novel Benzofuran Derivatives for PET Imaging of β -Amyloid Plaques in Alzheimer's Disease Brains. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 2725-2730.	6.4	100
5	Radioiodinated Flavones for in Vivo Imaging of β -Amyloid Plaques in the Brain. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 7253-7260.	6.4	81
6	Novel chalcones as probes for in vivo imaging of β -amyloid plaques in Alzheimer's brains. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 6802-6809.	3.0	78
7	Novel ^{18}F -Labeled Benzofuran Derivatives with Improved Properties for Positron Emission Tomography (PET) Imaging of β -Amyloid Plaques in Alzheimer's Brains. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 2971-2979.	6.4	77
8	Synthesis and Evaluation of Novel Chalcone Derivatives with $^{99\text{m}}\text{Tc}/\text{Re}$ Complexes as Potential Probes for Detection of β -Amyloid Plaques. <i>ACS Chemical Neuroscience</i> , 2010, 1, 598-607.	3.5	71
9	Aurones serve as probes of β -amyloid plaques in Alzheimer's disease. <i>Biochemical and Biophysical Research Communications</i> , 2007, 361, 116-121.	2.1	70
10	Rhodanine and Thiohydantoin Derivatives for Detecting Tau Pathology in Alzheimer's Brains. <i>ACS Chemical Neuroscience</i> , 2011, 2, 269-275.	3.5	68
11	Technetium-99m Labeled Pyridyl Benzofuran Derivatives as Single Photon Emission Computed Tomography Imaging Probes for β -Amyloid Plaques in Alzheimer's Brains. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 2279-2286.	6.4	63
12	Fluoro-pegylated Chalcones as Positron Emission Tomography Probes for in Vivo Imaging of β -Amyloid Plaques in Alzheimer's Disease. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 6394-6401.	6.4	62
13	Push–pull benzothiazole derivatives as probes for detecting β -amyloid plaques in Alzheimer's brains. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 7002-7007.	3.0	56
14	Novel Cyclopentadienyl Tricarbonyl Complexes of $^{99\text{m}}\text{Tc}$ Mimicking Chalcone as Potential Single-Photon Emission Computed Tomography Imaging Probes for β -Amyloid Plaques in Brain. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 471-482.	6.4	54
15	Development of novel β -amyloid probes based on 3,5-diphenyl-1,2,4-oxadiazole. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 6867-6872.	3.0	53
16	In vivo fluorescence imaging of β -amyloid plaques with push–pull dimethylaminothiophene derivatives. <i>Chemical Communications</i> , 2015, 51, 17124-17127.	4.1	52
17	Structure–activity relationship of chalcones and related derivatives as ligands for detecting of β -amyloid plaques in the brain. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 6388-6396.	3.0	48
18	Novel Benzothiazole Derivatives as Fluorescent Probes for Detection of β -Amyloid and α -Synuclein Aggregates. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1656-1662.	3.5	48

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19	Recent advances in molecular imaging probes for β -amyloid plaques. <i>MedChemComm</i> , 2015, 6, 391-402.	3.4	46
20	$^{99m}\text{Tc}/\text{Re}$ complexes based on flavone and aurone as SPECT probes for imaging cerebral β -amyloid plaques. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 5743-5748.	2.2	45
21	SPECT Imaging Agents for Detecting Cerebral β -Amyloid Plaques. <i>International Journal of Molecular Imaging</i> , 2011, 2011, 1-12.	1.3	42
22	Cancer radiotheranostics targeting carbonic anhydrase-IX with ^{111}In - and ^{90}Y -labeled ureidosulfonamide scaffold for SPECT imaging and radionuclide-based therapy. <i>Theranostics</i> , 2018, 8, 2992-3006.	10.0	42
23	Structure-Activity Relationship Study of Heterocyclic Phenylethenyl and Pyridinylethenyl Derivatives as Tau-Imaging Agents That Selectively Detect Neurofibrillary Tangles in Alzheimer's Disease Brains. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 7241-7257.	6.4	41
24	Development of Novel ^{123}I -Labeled Pyridyl Benzofuran Derivatives for SPECT Imaging of β -Amyloid Plaques in Alzheimer's Disease. <i>PLoS ONE</i> , 2013, 8, e74104.	2.5	39
25	Phenyldiazenyl benzothiazole derivatives as probes for in vivo imaging of neurofibrillary tangles in Alzheimer's disease brains. <i>MedChemComm</i> , 2011, 2, 596.	3.4	38
26	Development of Positron-Emission Tomography/Single-Photon Emission Computed Tomography Imaging Probes for in Vivo Detection of β -Amyloid Plaques in Alzheimer's Brains. <i>Chemical and Pharmaceutical Bulletin</i> , 2009, 57, 1029-1039.	1.3	37
27	Synthesis and biological evaluation of indole-chalcone derivatives as β -amyloid imaging probe. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 980-982.	2.2	37
28	Synthesis and Biologic Evaluation of Novel ^{18}F -Labeled Probes Targeting Prostate-Specific Membrane Antigen for PET of Prostate Cancer. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1978-1984.	5.0	36
29	A dual fluorinated and iodinated radiotracer for PET and SPECT imaging of β -amyloid plaques in the brain. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 6519-6522.	2.2	35
30	Synthesis and biological evaluation of novel oxindole derivatives for imaging neurofibrillary tangles in Alzheimer's disease. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 5700-5703.	2.2	33
31	Feasibility of poly(ethylene glycol) derivatives as diagnostic drug carriers for tumor imaging. <i>Journal of Controlled Release</i> , 2016, 226, 115-123.	9.9	32
32	Synthesis and biological evaluation of (E)-3-styrylpyridine derivatives as amyloid imaging agents for Alzheimer's disease. <i>Nuclear Medicine and Biology</i> , 2005, 32, 329-335.	0.6	27
33	Indocyanine Green-Labeled Polysarcosine for in Vivo Photoacoustic Tumor Imaging. <i>Bioconjugate Chemistry</i> , 2017, 28, 1024-1030.	3.6	27
34	Novel quinoxaline derivatives for in vivo imaging of β -amyloid plaques in the brain. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 4193-4196.	2.2	26
35	Synthesis and evaluation of ethyleneoxylated and allyloxylated chalcone derivatives for imaging of amyloid β plaques by SPECT. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 2622-2628.	3.0	26
36	Novel Benzofurans with ^{99m}Tc Complexes as Probes for Imaging Cerebral β -Amyloid Plaques. <i>ACS Medicinal Chemistry Letters</i> , 2010, 1, 443-447.	2.8	25

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37	Structure-Activity Relationships and in Vivo Evaluation of Quinoxaline Derivatives for PET Imaging of ^{125}I -Amyloid Plaques. <i>ACS Medicinal Chemistry Letters</i> , 2013, 4, 596-600.	2.8	25
38	Structure-activity relationships of radioiodinated diphenyl derivatives with different conjugated double bonds as ligands for ^{125}I -synuclein aggregates. <i>RSC Advances</i> , 2016, 6, 44305-44312.	3.6	25
39	Highly Selective Tau-SPECT Imaging Probes for Detection of Neurofibrillary Tangles in Alzheimer's Disease. <i>Scientific Reports</i> , 2016, 6, 34197.	3.3	25
40	Identification and Evaluation of Bisquinoline Scaffold as a New Candidate for ^{125}I -Synuclein-PET Imaging. <i>ACS Chemical Neuroscience</i> , 2020, 11, 4254-4261.	3.5	24
41	Enhancement of Binding Affinity for Amyloid Aggregates by Multivalent Interactions of $^{99\text{m}}\text{Tc}$ -Hydroxamamide Complexes. <i>Molecular Pharmaceutics</i> , 2014, 11, 1132-1139.	4.6	23
42	Characterisation of radioiodinated flavonoid derivatives for SPECT imaging of cerebral prion deposits. <i>Scientific Reports</i> , 2016, 5, 18440.	3.3	21
43	Synthesis and biological evaluation of radioiodinated 2,5-diphenyl-1,3,4-oxadiazoles for detecting ^{125}I -amyloid plaques in the brain. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 6402-6406.	3.0	20
44	Polyoxazoline multivalently conjugated with indocyanine green for sensitive in vivo photoacoustic imaging of tumors. <i>Scientific Reports</i> , 2016, 6, 33798.	3.3	20
45	Synthesis and biological evaluation of an ^{111}In -labeled exendin-4 derivative as a single-photon emission computed tomography probe for imaging pancreatic β -cells. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 5772-5778.	3.0	20
46	Development of ^{111}In -labeled exendin(9-39) derivatives for single-photon emission computed tomography imaging of insulinoma. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1406-1412.	3.0	18
47	Novel PET/SPECT Probes for Imaging of Tau in Alzheimer's Disease. <i>Scientific World Journal</i> , The, 2015, 2015, 1-6.	2.1	17
48	Feasibility of Amylin Imaging in Pancreatic Islets with ^{125}I -Amyloid Imaging Probes. <i>Scientific Reports</i> , 2014, 4, 6155.	3.3	17
49	Imaging of Cerebral Amyloid Angiopathy with Bivalent $^{99\text{m}}\text{Tc}$ -Hydroxamamide Complexes. <i>Scientific Reports</i> , 2016, 6, 25990.	3.3	17
50	Brachytherapy with Intratumoral Injections of Radiometal-Labeled Polymers That Thermoresponsively Self-Aggregate in Tumor Tissues. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1380-1385.	5.0	17
51	Synthesis and biological evaluation of novel radioiodinated benzimidazole derivatives for imaging ^{125}I -synuclein aggregates. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 6398-6403.	3.0	17
52	Evaluation of ^{18}F -labeled exendin(9-39) derivatives targeting glucagon-like peptide-1 receptor for pancreatic β -cell imaging. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 463-469.	3.0	16
53	Enhanced Delivery of Radiolabeled Polyoxazoline into Tumors via Self-Aggregation under Hyperthermic Conditions. <i>Molecular Pharmaceutics</i> , 2018, 15, 3997-4003.	4.6	16
54	Radiotheranostics Using a Novel ^{225}Ac -Labeled Radioligand with Improved Pharmacokinetics Targeting Prostate-Specific Membrane Antigen. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 13429-13438.	6.4	16

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55	Stabilization Mechanism for a Nonfibrillar Amyloid β^2 Oligomer Based on Formation of a Hydrophobic Core Determined by Dissipative Particle Dynamics. <i>ACS Chemical Neuroscience</i> , 2020, 11, 385-394.	3.5	15
56	Core Binding Site of a Thioflavin-T-Derived Imaging Probe on Amyloid β^2 Fibrils Predicted by Computational Methods. <i>ACS Chemical Neuroscience</i> , 2018, 9, 957-966.	3.5	14
57	Modulation of the Pharmacokinetics of a Radioligand Targeting Carbonic Anhydrase-IX with Albumin-Binding Moieties. <i>Molecular Pharmaceutics</i> , 2021, 18, 966-975.	4.6	14
58	Development of ^{99m}Tc -Labeled Pyridyl Benzofuran Derivatives To Detect Pancreatic Amylin in Islet Amyloid Model Mice. <i>Bioconjugate Chemistry</i> , 2016, 27, 1532-1539.	3.6	12
59	First-in-Human Evaluation of Positron Emission Tomography/Computed Tomography With ^{18}F FB(ePEG12)12-Exendin-4: A Phase 1 Clinical Study Targeting GLP-1 Receptor Expression Cells in Pancreas. <i>Frontiers in Endocrinology</i> , 2021, 12, 717101.	3.5	12
60	Synthesis and biological evaluation of novel technetium-99m-labeled phenylquinoxaline derivatives as single photon emission computed tomography imaging probes targeting β^2 -amyloid plaques in Alzheimer's disease. <i>RSC Advances</i> , 2017, 7, 20582-20590.	3.6	11
61	Development of a novel radiotheranostic platform with a DOTA-based trifunctional chelating agent. <i>Chemical Communications</i> , 2021, 57, 6432-6435.	4.1	11
62	Structure-Activity Relationships of Radioiodinated Benzoimidazopyridine Derivatives for Detection of Tau Pathology. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 478-483.	2.8	10
63	Synthesis and biological evaluation of F-18 labeled tetrahydroisoquinoline derivatives targeting orexin 1 receptor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 1620-1623.	2.2	10
64	Development of the ^{99m}Tc -Hydroxamamide Complex as a Probe Targeting Carbonic Anhydrase IX. <i>Molecular Pharmaceutics</i> , 2019, 16, 1489-1497.	4.6	10
65	Chalcone Analogue as New Candidate for Selective Detection of β^2 -Synuclein Pathology. <i>ACS Chemical Neuroscience</i> , 2022, 13, 16-26.	3.5	10
66	^{18}F -Labeled 2-phenylquinoxaline derivatives as potential positron emission tomography probes for in vivo imaging of β^2 -amyloid plaques. <i>European Journal of Medicinal Chemistry</i> , 2012, 57, 51-58.	5.5	9
67	^{18}F -Labeled Pyrido[3,4- <i>d</i>]pyrimidine as an Effective Probe for Imaging of L858R Mutant Epidermal Growth Factor Receptor. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 418-422.	2.8	9
68	Novel fluorescence probes based on the chalcone scaffold for in vitro staining of β^2 -amyloid plaques. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 3242-3246.	2.2	9
69	^{18}F -labeled benzimidazopyridine derivatives for PET imaging of tau pathology in Alzheimer's disease. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 3587-3594.	3.0	9
70	Synthesis and evaluation of indium-111-labeled imidazothiadiazole sulfonamide derivative for single photon emission computed tomography imaging targeting carbonic anhydrase-IX. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127255.	2.2	9
71	Novel radioiodinated 1,3,4-oxadiazole derivatives with improved in vivo properties for SPECT imaging of β^2 -amyloid plaques. <i>MedChemComm</i> , 2014, 5, 82-85.	3.4	8
72	Conversion of iodine to fluorine-18 based on iodinated chalcone and evaluation for β^2 -amyloid PET imaging. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 3352-3358.	3.0	8

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73	PET probe detecting non-small cell lung cancer susceptible to epidermal growth factor receptor tyrosine kinase inhibitor therapy. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 1609-1613.	3.0	7
74	Synthesis and evaluation of novel two-photon fluorescence probes for in vivo imaging of amylin aggregates in the pancreas. <i>Dyes and Pigments</i> , 2019, 170, 107615.	3.7	7
75	Development of an ¹¹¹ In-Labeled Glucagon-Like Peptide-1 Receptor-Targeting Exendin-4 Derivative that Exhibits Reduced Renal Uptake. <i>Molecular Pharmaceutics</i> , 2022, 19, 1019-1027.	4.6	7
76	Structure-Activity Relationships of Radioiodinated 6,5,6-Tricyclic Compounds for the Development of Tau Imaging Probes. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 120-126.	2.8	6
77	Development of Radioiodinated Benzofuran Derivatives for <i>In Vivo</i> Imaging of Prion Deposits in the Brain. <i>ACS Infectious Diseases</i> , 2019, 5, 2003-2013.	3.8	5
78	Synthesis and characterization of a novel ¹⁸ F-labeled 2,5-diarylnicotinamide derivative targeting orexin 2 receptor. <i>MedChemComm</i> , 2019, 10, 2126-2130.	3.4	5
79	Synthesis and evaluation of novel technetium-99m-hydroxamamide complex based on imidazothiadiazole sulfonamide targeting carbonic anhydrase-IX for tumor imaging. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127596.	2.2	5
80	Synthesis and biological evaluation of radioiodinated 3-phenylcoumarin derivatives targeting myelin in multiple sclerosis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127562.	2.2	5
81	Synthesis and evaluation of ⁶⁸ Ga-labeled imidazothiadiazole sulfonamide derivatives for PET imaging of carbonic anhydrase-IX. <i>Nuclear Medicine and Biology</i> , 2021, 93, 46-53.	0.6	4
82	PET imaging and pharmacological therapy targeting carbonic anhydrase-IX high-expressing tumors using US2 platform based on bivalent ureidosulfonamide. <i>PLoS ONE</i> , 2020, 15, e0243327.	2.5	4
83	Syntheses of Two Potential Ligands for ^{99m} Tc Labeling as Diagnosis Agents of Alzheimer's Disease. <i>Chinese Journal of Chemistry</i> , 2003, 21, 824-832.	4.9	3
84	Characterization of Novel ¹⁸ F-Labeled Phenoxymethylpyridine Derivatives as Amylin Imaging Probes. <i>Molecular Pharmaceutics</i> , 2018, 15, 5574-5584.	4.6	3
85	Novel radiogallium-labeled pyridyl benzofuran derivative for detection of amylin aggregates in pancreas. <i>Nuclear Medicine and Biology</i> , 2020, 90-91, 93-97.	0.6	3
86	Development of Novel PET Imaging Probes for Detection of Amylin Aggregates in the Pancreas. <i>Molecular Pharmaceutics</i> , 2020, 17, 1293-1299.	4.6	3
87	Structure-Activity and Brain Kinetics Relationships of ¹⁸ F-Labeled Benzimidazopyridine Derivatives as Tau PET Tracers. <i>ACS Medicinal Chemistry Letters</i> , 2021, 12, 262-266.	2.8	3
88	Characterization and Optimization of Benzimidazopyrimidine and Pyridoimidazopyridine Derivatives as Tau-SPECT Probes. <i>ACS Medicinal Chemistry Letters</i> , 2021, 12, 805-811.	2.8	3
89	Synthesis and evaluation of a [¹⁸ F]formyl-L-Met-L-Leu-L-Phe derivative: A positron emission tomography imaging probe for bacterial infections. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 2949-2952.	2.2	2
90	Feasibility studies of radioiodinated pyridyl benzofuran derivatives as potential SPECT imaging agents for prion deposits in the brain. <i>Nuclear Medicine and Biology</i> , 2020, 90-91, 41-48.	0.6	2

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91	Synthesis and biological evaluation of novel ¹⁸ F-labeled phenylbenzofuran-2-carboxamide derivative for detection of orexin 1 receptor in the brain. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 43, 128098.	2.2	2
92	Characterization of Radioiodinated Diaryl Oxadiazole Derivatives as SPECT Probes for Detection of Myelin in Multiple Sclerosis. <i>ACS Chemical Neuroscience</i> , 2022, 13, 363-369.	3.5	2
93	Feasibility of using a ^{99m} Tc-hydroxamamide complex containing an albumin binder moiety for in vivo albumin labeling-based tumor imaging. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 53, 128417.	2.2	1
94	Synthesis and evaluation of novel radioiodinated phenylbenzofuranone derivatives as α -synuclein imaging probes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022, 64, 128679.	2.2	1
95	Synthesis and Evaluation of Novel ¹¹¹ In-Labeled Picolinic Acid-Based Radioligands Containing an Albumin Binder for Development of a Radiotheranostic Platform. <i>Molecular Pharmaceutics</i> , 2022, 19, 2725-2736.	4.6	1
96	Structure-Activity Relationships and Pharmacokinetics of ¹¹¹ In-Labeled Glucagon-like Peptide-1 Receptor-Targeting Exendin-4 Derivatives Conjugated with Albumin Binder Moieties. <i>Molecular Pharmaceutics</i> , 2022, 19, 2832-2839.	4.6	1
97	Development of a hydroxamamide-based bifunctional chelating agent to prepare technetium-99m-labeled bivalent ligand probes. <i>Scientific Reports</i> , 2021, 11, 18714.	3.3	0