Jiyoun Lee

List of Publications by Year in Descending Order

74 papers	1,764 citations	22 h-index	39 g-index
79 ext. papers	2,014 ext. citations	5.3 avg, IF	4.67 L-index

#	Paper	IF	Citations
74	The translocator protein ligands as mitochondrial functional modulators for the potential anti-Alzheimer agents. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 831-846	5.6	2
73	Recent Advances in Organelle-Targeted Fluorescent Probes. *Molecules*, **2021**, 26,	4.8	11
72	Discovery of highly potent human glutaminyl cyclase (QC) inhibitors as anti-Alzheimer's agents by the combination of pharmacophore-based and structure-based design. *European Journal of Medicinal Chemistry*, **2021**, 226, 113819	6.8	1
71	Mitochondrial dysfunction and Alzheimer's disease: prospects for therapeutic intervention. *BMB Reports*, **2020**, 53, 47-55	5.5	8
70	Mitochondrion-Targeting Peptides and Peptidomimetics: Recent Progress and Design Principles. *Biochemistry*, **2020**, 59, 270-284	3.2	21
69	Activity-Based Probes for the High Temperature Requirement A Serine Proteases. *ACS Chemical Biology*, **2020**, 15, 2346-2354	4.9	4
68	Helicity Modulation Improves the Selectivity of Antimicrobial Peptoids. *ACS Infectious Diseases*, **2020**, 6, 2732-2744	5.5	8
67	Structure-activity relationship of leucyladenylate sulfamate analogues as leucyl-tRNA synthetase (LRS)-targeting inhibitors of Mammalian target of rapamycin complex 1 (mTORC1). *Bioorganic and Medicinal Chemistry*, **2019**, 27, 1099-1109	3.4	5
66	Discovery of Conformationally Restricted Human Glutaminyl Cyclase Inhibitors as Potent Anti-Alzheimer's Agents by Structure-Based Design. *Journal of Medicinal Chemistry*, **2019**, 62, 8011-8027	8.3	7
65	Structure-activity relationship investigation of Phe-Arg mimetic region of human glutaminyl cyclase inhibitors. *Bioorganic and Medicinal Chemistry*, **2018**, 26, 3133-3144	3.4	7
64	Potent human glutaminyl cyclase inhibitors as potential anti-Alzheimer's agents: Structure-activity relationship study of Arg-mimetic region. *Bioorganic and Medicinal Chemistry*, **2018**, 26, 1035-1049	3.4	11
63	Synthesis and biological evaluation of 3-(2-aminoethyl) uracil derivatives as gonadotropin-releasing hormone (GnRH) receptor antagonists. *European Journal of Medicinal Chemistry*, **2018**, 145, 413-424	6.8	3
62	A Turn-On Fluorescent Probe for Live-Cell Imaging of Biothiols. *Bulletin of the Korean Chemical Society*, **2018**, 39, 425-426	1.2	2
61	Mitochondria-Targeting Peptoids. *Bioconjugate Chemistry*, **2018**, 29, 1669-1676	6.3	17
60	Pyrazinyl ureas revisited: 1-(3-(Benzyloxy)pyrazin-2-yl)-3-(3,4-dichlorophenyl)urea, a new blocker of A□nduced mPTP opening for Alzheimer's disease. *European Journal of Medicinal Chemistry*, **2018**, 157, 268-278	6.8	5
59	Discovery of novel leucyladenylate sulfamate surrogates as leucyl-tRNA synthetase (LRS)-targeted mammalian target of rapamycin complex 1 (mTORC1) inhibitors. *Bioorganic and Medicinal Chemistry* , **2018**, 26, 4073-4079	3.4	7
58	Synthesis and evaluation of 2-(3-arylureido)pyridines and 2-(3-arylureido)pyrazines as potential modulators of A□nduced mitochondrial dysfunction in Alzheimer's disease. *European Journal of Medicinal Chemistry*, **2018**, 144, 529-543	6.8	19

57	Effect of side chain hydrophobicity and cationic charge on antimicrobial activity and cytotoxicity of helical peptoids. *Bioorganic and Medicinal Chemistry Letters*, **2018**, 28, 170-173	2.9	29
56	Discovery of an Orally Bioavailable Benzofuran Analogue That Serves as a Amyloid Aggregation Inhibitor for the Potential Treatment of Alzheimer's Disease. *Journal of Medicinal Chemistry*, **2018**, 61, 396-402	8.3	21
55	Discovery of Potent Human Glutaminyl Cyclase Inhibitors as Anti-Alzheimer's Agents Based on Rational Design. *Journal of Medicinal Chemistry*, **2017**, 60, 2573-2590	8.3	23
54	Design, synthesis, biological evaluation and molecular modelling of 2-(2-aryloxyphenyl)-1,4-dihydroisoquinolin-3(2H)-ones: A novel class of TSPO ligands modulating amyloid-nduced mPTP opening. *European Journal of Pharmaceutical Sciences*, **2017**, 104, 366-381	5.1	18
53	Discovery of simplified leucyladenylate sulfamates as novel leucyl-tRNA synthetase (LRS)-targeted mammalian target of rapamycin complex 1 (mTORC1) inhibitors. *Bioorganic and Medicinal Chemistry* , **2017**, 25, 4145-4152	3.4	12
52	Discovery of 1-(3-(benzyloxy)pyridin-2-yl)-3-(2-(piperazin-1-yl)ethyl)urea: A new modulator for amyloid beta-induced mitochondrial dysfunction. *European Journal of Medicinal Chemistry*, **2017**, 128, 56-69	6.8	19
51	Synthesis and evaluation of new pyridyl/pyrazinyl thiourea derivatives: Neuroprotection against amyloid-nduced toxicity. *European Journal of Medicinal Chemistry*, **2017**, 141, 322-334	6.8	13
50	Discovery of thienopyrrolotriazine derivatives to protect mitochondrial function against A nduced neurotoxicity. *European Journal of Medicinal Chemistry*, **2017**, 141, 240-256	6.8	2
49	Discovery of non-peptidic small molecule inhibitors of cyclophilin D as neuroprotective agents in A nduced mitochondrial dysfunction. *Journal of Computer-Aided Molecular Design*, **2017**, 31, 929-941	4.2	13
48	Development of a smart activity-based probe to detect subcellular activity of asparaginyl endopeptidase in living cells. *Organic and Biomolecular Chemistry*, **2017**, 15, 8018-8022	3.9	10
47	Discovery of benzimidazole derivatives as modulators of mitochondrial function: A potential treatment for Alzheimer's disease. *European Journal of Medicinal Chemistry*, **2017**, 125, 1172-1192	6.8	22
46	A 1,8-naphthalimide-based chemosensor for dual-mode sensing: colorimetric and fluorometric detection of multiple analytes. *RSC Advances*, **2016**, 6, 84098-84105	3.7	25
45	Discovery of Leucyladenylate Sulfamates as Novel Leucyl-tRNA Synthetase (LRS)-Targeted Mammalian Target of Rapamycin Complex 1 (mTORC1) Inhibitors. *Journal of Medicinal Chemistry*, **2016**, 59, 10322-10328	8.3	13
44	Mitochondrial drug targets in neurodegenerative diseases. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 714-720	2.9	19
43	Discovery of a Small Molecule that Enhances Astrocytogenesis by Activation of STAT3, SMAD1/5/8, and ERK1/2 via Induction of Cytokines in Neural Stem Cells. *ACS Chemical Neuroscience*, **2016**, 7, 90-9	5.7	12
42	Discovery of (S)-4-isobutyloxazolidin-2-one as a novel leucyl-tRNA synthetase (LRS)-targeted mTORC1 inhibitor. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 3038-3041	2.9	11
41	Discovery of an Orally Bioavailable Gonadotropin-Releasing Hormone Receptor Antagonist. *Journal of Medicinal Chemistry*, **2016**, 59, 9150-9172	8.3	9
40	6-Phenoxy-2-phenylbenzoxazoles, novel inhibitors of receptor for advanced glycation end products (RAGE). *Bioorganic and Medicinal Chemistry*, **2015**, 23, 4919-4935	3.4	8

39	Prostate tumor specific peptide-peptoid hybrid prodrugs. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 2849-52	2.9	14
38	Discovery of 2-aryloxy-4-amino-quinazoline derivatives as novel protease-activated receptor 2 (PAR2) antagonists. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 7717-27	3.4	7
37	Thiophene-substituted Aza-BODIPYs as Near-Infrared Fluorophores. *Bulletin of the Korean Chemical Society*, **2015**, 36, 1747-1748	1.2	1
36	Discovery and biological evaluation of tetrahydrothieno[2,3-c]pyridine derivatives as selective metabotropic glutamate receptor 1 antagonists for the potential treatment of neuropathic pain. *European Journal of Medicinal Chemistry*, **2015**, 97, 245-58	6.8	9
35	Synthesis and biological evaluation of aryl isoxazole derivatives as metabotropic glutamate receptor 1 antagonists: a potential treatment for neuropathic pain. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 1324-8	2.9	6
34	Novel quinazoline-urea analogues as modulators for A□nduced mitochondrial dysfunction: design, synthesis, and molecular docking study. *European Journal of Medicinal Chemistry*, **2014**, 84, 466-75	6.8	27
33	Novel pyrimidoazepine analogs as serotonin 5-HT(2A) and 5-HT(2C) receptor ligands for the treatment of obesity. *European Journal of Medicinal Chemistry*, **2013**, 63, 558-69	6.8	18
32	Target deconvolution techniques in modern phenotypic profiling. *Current Opinion in Chemical Biology*, **2013**, 17, 118-26	9.7	117
31	Synthesis and biological evaluation of aryloxazole derivatives as antimitotic and vascular-disrupting agents for cancer therapy. *Journal of Medicinal Chemistry*, **2013**, 56, 9008-18	8.3	32
30	Aminopropyl carbazole analogues as potent enhancers of neurogenesis. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 7165-74	3.4	22
29	Functional imaging of legumain in cancer using a new quenched activity-based probe. *Journal of the American Chemical Society*, **2013**, 135, 174-82	16.4	111
28	The selective A3AR antagonist LJ-1888 ameliorates UUO-induced tubulointerstitial fibrosis. *American Journal of Pathology*, **2013**, 183, 1488-1497	5.8	34
27	Porphyrin-peptoid conjugates: face-to-face display of porphyrins on peptoid helices. *Organic Letters* , **2013**, 15, 1670-3	6.2	27
26	Synthesis and evaluation of oxime derivatives as modulators for amyloid beta-induced mitochondrial dysfunction. *European Journal of Medicinal Chemistry*, **2013**, 62, 71-83	6.8	14
25	Coupling protein engineering with probe design to inhibit and image matrix metalloproteinases with controlled specificity. *Journal of the American Chemical Society*, **2013**, 135, 9139-48	16.4	31
24	Structure-activity relationship of human glutaminyl cyclase inhibitors having an N-(5-methyl-1H-imidazol-1-yl)propyl thiourea template. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 3821-30	3.4	25
23	Synthesis and evaluation of aza-peptidyl inhibitors of the lysosomal asparaginyl endopeptidase, legumain. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 1340-3	2.9	20
22	The SAR analysis of TRPV1 agonists with the □methylated B-region. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 5227-31	2.9	3

21	Pyridyl-urea Derivatives as Blockers of A□nduced mPTP Opening for Alzheimer□s Disease. *Bulletin of the Korean Chemical Society*, **2012**, 33, 3887-3888	1.2	2
20	Cobalt (III) Complexes as Novel Matrix Metalloproteinase-9 Inhibitors. *Bulletin of the Korean Chemical Society*, **2012**, 33, 2762-2764	1.2	3
19	Nucleic acid recognition by Toll-like receptors is coupled to stepwise processing by cathepsins and asparagine endopeptidase. *Journal of Experimental Medicine*, **2011**, 208, 643-51	16.6	225
18	Development of near-infrared fluorophore (NIRF)-labeled activity-based probes for in vivo imaging of legumain. *ACS Chemical Biology*, **2010**, 5, 233-43	4.9	60
17	Targeted inhibition of Snail family zinc finger transcription factors by oligonucleotide-Co(III) Schiff base conjugate. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 13667-72	11.5	61
16	Rational design, synthesis, and biological evaluation of progesterone-modified MRI contrast agents. *Chemistry and Biology*, **2007**, 14, 824-34		31
15	A steroid-conjugated contrast agent for magnetic resonance imaging of cell signaling. *Journal of the American Chemical Society*, **2005**, 127, 13164-6	16.4	44
14	Analysis of structure-activity relationships for the □B-regionTof N-(4-t-butylbenzyl)-N□[4-(methylsulfonylamino)benzyl]-thiourea analogues as TRPV1 antagonists. *Bioorganic and Medicinal Chemistry Letters*, **2005**, 15, 4143-50	2.9	11
13	Analysis of structure-activity relationships for the □B-regionTof N-(3-acyloxy-2-benzylpropyl)-N(□)-[4-(methylsulfonylamino)benzyl]thiourea analogues as vanilloid receptor antagonists: discovery of an N-hydroxythiourea analogue with potent analgesic activity. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 2291-7	2.9	12
12	Structure-activity relationships of simplified resiniferatoxin analogues with potent VR1 agonism elucidates an active conformation of RTX for VR1 binding. *Bioorganic and Medicinal Chemistry*, **2004**, 12, 1055-69	3.4	9
11	Analysis of structure-activity relationships with the N-(3-acyloxy-2-benzylpropyl)-N□[4-(methylsulfonylamino)benzyl]thiourea template for vanilloid receptor 1 antagonism. *Bioorganic and Medicinal Chemistry*, **2004**, 12, 3411-20	3.4	14
10	N-4-Substituted-benzyl-N□tert-butylbenzyl thioureas as vanilloid receptor ligands: investigation on the role of methanesulfonamido group in antagonistic activity. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 787-91	2.9	27
9	N-(3-acyloxy-2-benzylpropyl)-N□[4-(methylsulfonylamino)benzyl]thiourea analogues: novel potent and high affinity antagonists and partial antagonists of the vanilloid receptor. *Journal of Medicinal Chemistry*, **2003**, 46, 3116-26	8.3	103
8	High-affinity partial agonists of the vanilloid receptor. *Molecular Pharmacology*, **2003**, 64, 325-33	4.3	36
7	Phenolic modification as an approach to improve the pharmacology of the 3-acyloxy-2-benzylpropyl homovanillic amides and thioureas, a promising class of vanilloid receptor agonists and analgesics. *Bioorganic and Medicinal Chemistry*, **2002**, 10, 1171-9	3.4	13
6	High affinity antagonists of the vanilloid receptor. *Molecular Pharmacology*, **2002**, 62, 947-56	4.3	89
5	N-(3-Acyloxy-2-benzylpropyl)-N□(4-hydroxy-3-methoxybenzyl) thiourea derivatives as potent vanilloid receptor agonists and analgesics. *Bioorganic and Medicinal Chemistry*, **2001**, 9, 19-32	3.4	46
4	N-(3-acyloxy-2-benzylpropyl)-N□dihydroxytetrahydrobenzazepine and tetrahydroisoquinoline thiourea analogues as vanilloid receptor ligands. *Bioorganic and Medicinal Chemistry*, **2001**, 9, 1713-20	3.4	22

3	3-Acyloxy-2-phenalkylpropyl amides and esters of homovanillic acid as novel vanilloid receptor agonists. *Bioorganic and Medicinal Chemistry Letters*, **1999**, 9, 2909-14	2.9	16
2	A Facile and Practical Synthesis of Capsazepine, a Vanilloid Receptor Antagonist. *Synthetic Communications*, **1999**, 29, 4127-4140	1.7	5
1	Synthesis and structure-activity relationship of mitochondria-targeting peptoids with varying hydrophobicity and cationic charge. *Peptide Science*,e24239	3	0