

Jiyoun Lee

List of Publications by Year in descending order

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74
papers

2,230
citations

218381

26
h-index

243296

44
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79
all docs

79
docs citations

79
times ranked

3215
citing authors

#	ARTICLE	IF	CITATIONS
1	Nucleic acid recognition by Toll-like receptors is coupled to stepwise processing by cathepsins and asparagine endopeptidase. <i>Journal of Experimental Medicine</i> , 2011, 208, 643-651.	4.2	276
2	Target deconvolution techniques in modern phenotypic profiling. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 118-126.	2.8	137
3	Functional Imaging of Legumain in Cancer Using a New Quenched Activity-Based Probe. <i>Journal of the American Chemical Society</i> , 2013, 135, 174-182.	6.6	131
4	N-(3-Acyloxy-2-benzylpropyl)-N ⁴ -[4-(methylsulfonylamino)benzyl]thiourea Analogues: A Novel Potent and High Affinity Antagonists and Partial Antagonists of the Vanilloid Receptor. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 3116-3126.	2.9	110
5	High Affinity Antagonists of the Vanilloid Receptor. <i>Molecular Pharmacology</i> , 2002, 62, 947-956.	1.0	97
6	Targeted inhibition of Snail family zinc finger transcription factors by oligonucleotide-Co(III) Schiff base conjugate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13667-13672.	3.3	80
7	Development of Near-Infrared Fluorophore (NIRF)-Labeled Activity-Based Probes for <i>in Vivo</i> Imaging of Legumain. <i>ACS Chemical Biology</i> , 2010, 5, 233-243.	1.6	75
8	N-(3-acyloxy-2-benzylpropyl)-N ⁴ -(4-hydroxy-3-methoxybenzyl)thiourea derivatives as potent vanilloid receptor agonists and analgesics. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 19-32.	1.4	49
9	A Steroid-Conjugated Contrast Agent for Magnetic Resonance Imaging of Cell Signaling. <i>Journal of the American Chemical Society</i> , 2005, 127, 13164-13166.	6.6	45
10	Recent Advances in Organelle-Targeted Fluorescent Probes. <i>Molecules</i> , 2021, 26, 217.	1.7	43
11	Effect of side chain hydrophobicity and cationic charge on antimicrobial activity and cytotoxicity of helical peptoids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 170-173.	1.0	41
12	Synthesis and Biological Evaluation of Aryloxazole Derivatives as Antimitotic and Vascular-Disrupting Agents for Cancer Therapy. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 9008-9018.	2.9	40
13	The Selective A3AR Antagonist LJ-1888 Ameliorates UUO-Induced Tubulointerstitial Fibrosis. <i>American Journal of Pathology</i> , 2013, 183, 1488-1497.	1.9	39
14	High-Affinity Partial Agonists of the Vanilloid Receptor. <i>Molecular Pharmacology</i> , 2003, 64, 325-333.	1.0	38
15	Mitochondrion-Targeting Peptides and Peptidomimetics: Recent Progress and Design Principles. <i>Biochemistry</i> , 2020, 59, 270-284.	1.2	37
16	Rational Design, Synthesis, and Biological Evaluation of Progesterone-Modified MRI Contrast Agents. <i>Chemistry and Biology</i> , 2007, 14, 824-834.	6.2	35
17	Coupling Protein Engineering with Probe Design To Inhibit and Image Matrix Metalloproteinases with Controlled Specificity. <i>Journal of the American Chemical Society</i> , 2013, 135, 9139-9148.	6.6	35
18	Structure-activity relationship of human glutaminyl cyclase inhibitors having an N-(5-methyl-1H-imidazol-1-yl)propyl thiourea template. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 3821-3830.	1.4	33

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19	Discovery of Potent Human Glutamyl Cyclase Inhibitors as Anti-Alzheimer's Agents Based on Rational Design. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 2573-2590.	2.9	33
20	Aminopropyl carbazole analogues as potent enhancers of neurogenesis. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 7165-7174.	1.4	30
21	Novel quinazoline-urea analogues as modulators for A β -induced mitochondrial dysfunction: Design, synthesis, and molecular docking study. <i>European Journal of Medicinal Chemistry</i> , 2014, 84, 466-475.	2.6	30
22	Discovery of an Orally Bioavailable Benzofuran Analogue That Serves as a A β -Amyloid Aggregation Inhibitor for the Potential Treatment of Alzheimer's Disease. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 396-402.	2.9	30
23	N-4-Substituted-benzyl-N ϵ -tert-butylbenzyl thioureas as vanilloid receptor ligands: investigation on the role of methanesulfonamido group in antagonistic activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 787-791.	1.0	29
24	Synthesis and evaluation of aza-peptidyl inhibitors of the lysosomal asparaginyl endopeptidase, legumain. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 1340-1343.	1.0	28
25	Porphyrin-peptoid Conjugates: Face-to-Face Display of Porphyrins on Peptoid Helices. <i>Organic Letters</i> , 2013, 15, 1670-1673.	2.4	28
26	A 1,8-naphthalimide-based chemosensor for dual-mode sensing: colorimetric and fluorometric detection of multiple analytes. <i>RSC Advances</i> , 2016, 6, 84098-84105.	1.7	27
27	Discovery of 1-(3-(benzyloxy)pyridin-2-yl)-3-(2-(piperazin-1-yl)ethyl)urea: A new modulator for amyloid beta-induced mitochondrial dysfunction. <i>European Journal of Medicinal Chemistry</i> , 2017, 128, 56-69.	2.6	26
28	Discovery of benzimidazole derivatives as modulators of mitochondrial function: A potential treatment for Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2017, 125, 1172-1192.	2.6	26
29	Mitochondria-Targeting Peptoids. <i>Bioconjugate Chemistry</i> , 2018, 29, 1669-1676.	1.8	26
30	Synthesis and evaluation of 2-(3-aryloxy)pyridines and 2-(3-aryloxy)pyrazines as potential modulators of A β -induced mitochondrial dysfunction in Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2018, 144, 529-543.	2.6	25
31	Helicity Modulation Improves the Selectivity of Antimicrobial Peptoids. <i>ACS Infectious Diseases</i> , 2020, 6, 2732-2744.	1.8	25
32	Mitochondrial drug targets in neurodegenerative diseases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 714-720.	1.0	23
33	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- β -induced mPTP opening. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 104, 366-381.	1.9	23
34	N-(3-Acyloxy-2-Benzylpropyl)-N ϵ -Dihydroxytetrahydrobenzazepine and Tetrahydroisoquinoline Thiourea Analogues as Vanilloid Receptor Ligands. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 1713-1720.	1.4	22
35	Novel pyrimidoazepine analogs as serotonin 5-HT $_2$ A and 5-HT $_2$ C receptor ligands for the treatment of obesity. <i>European Journal of Medicinal Chemistry</i> , 2013, 63, 558-569.	2.6	20
36	Synthesis and evaluation of new pyridyl/pyrazinyl thiourea derivatives: Neuroprotection against amyloid- β -induced toxicity. <i>European Journal of Medicinal Chemistry</i> , 2017, 141, 322-334.	2.6	19

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37	Discovery of non-peptidic small molecule inhibitors of cyclophilin D as neuroprotective agents in A β -induced mitochondrial dysfunction. <i>Journal of Computer-Aided Molecular Design</i> , 2017, 31, 929-941.	1.3	19
38	Potent human glutaminyl cyclase inhibitors as potential anti-Alzheimer's agents: Structure-activity relationship study of Arg-mimetic region. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 1035-1049.	1.4	19
39	3-Acyloxy-2-phenalkylpropyl amides and esters of homovanillic acid as novel vanilloid receptor agonists. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1999, 9, 2909-2914.	1.0	17
40	Prostate tumor specific peptide-peptoid hybrid prodrugs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 2849-2852.	1.0	17
41	Mitochondrial dysfunction and Alzheimer's disease: prospects for therapeutic intervention. <i>BMB Reports</i> , 2020, 53, 47-55.	1.1	17
42	Discovery of (S)-4-isobutyloxazolidin-2-one as a novel leucyl-tRNA synthetase (LRS)-targeted mTORC1 inhibitor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 3038-3041.	1.0	16
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. <i>ACS Chemical Neuroscience</i> , 2016, 7, 90-99.	1.7	16
44	Discovery of simplified leucyladenylate sulfamates as novel leucyl-tRNA synthetase (LRS)-targeted mammalian target of rapamycin complex 1 (mTORC1) inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 4145-4152.	1.4	16
45	Structure-activity relationship investigation of Phe-Arg mimetic region of human glutaminyl cyclase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 3133-3144.	1.4	16
46	Discovery of Conformationally Restricted Human Glutaminyl Cyclase Inhibitors as Potent Anti-Alzheimer's Agents by Structure-Based Design. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 8011-8027.	2.9	16
47	Synthesis and evaluation of oxime derivatives as modulators for amyloid beta-induced mitochondrial dysfunction. <i>European Journal of Medicinal Chemistry</i> , 2013, 62, 71-83.	2.6	15
48	Discovery of an Orally Bioavailable Gonadotropin-Releasing Hormone Receptor Antagonist. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 9150-9172.	2.9	15
49	Discovery of Leucyladenylate Sulfamates as Novel Leucyl-tRNA Synthetase (LRS)-Targeted Mammalian Target of Rapamycin Complex 1 (mTORC1) Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 10322-10328.	2.9	15
50	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. <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 1171-1179.	1.4	14
51	Analysis of structure-activity relationships with the N-(3-acyloxy-2-benzylpropyl)-N-[4-(methylsulfonylamino)benzyl]thiourea template for vanilloid receptor 1 antagonism. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 3411-3420.	1.4	14
52	Analysis of structure-activity relationships for the β -region of N-(4-t-butylbenzyl)-N-[4-(methylsulfonylamino)benzyl]-thiourea analogues as TRPV1 antagonists. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 4143-4150.	1.0	14
53	Analysis of structure-activity relationships for the β -region of 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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 2291-2297.	1.0	13
54	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. <i>European Journal of Medicinal Chemistry</i> , 2015, 97, 245-258.	2.6	13

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55	Development of a smart activity-based probe to detect subcellular activity of asparaginyl endopeptidase in living cells. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 8018-8022.	1.5	13
56	Discovery of 2-aryloxy-4-amino-quinazoline derivatives as novel protease-activated receptor 2 (PAR2) antagonists. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 7717-7727.	1.4	12
57	6-Phenoxy-2-phenylbenzoxazoles, novel inhibitors of receptor for advanced glycation end products (RAGE). <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 4919-4935.	1.4	11
58	Discovery of novel leucyladenylate sulfamate surrogates as leucyl-tRNA synthetase (LRS)-targeted mammalian target of rapamycin complex 1 (mTORC1) inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 4073-4079.	1.4	11
59	Pyrazinyl ureas revisited: 1-(3-(Benzyloxy)pyrazin-2-yl)-3-(3,4-dichlorophenyl)urea, a new blocker of A β -induced mPTP opening for Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2018, 157, 268-278.	2.6	10
60	The translocator protein ligands as mitochondrial functional modulators for the potential anti-Alzheimer agents. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 831-846.	2.5	10
61	Structure-activity relationships of simplified resiniferatoxin analogues with potent VR1 agonism elucidates an active conformation of RTX for VR1 binding. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 1055-1069.	1.4	9
62	Synthesis and biological evaluation of aryl isoxazole derivatives as metabotropic glutamate receptor 1 antagonists: A potential treatment for neuropathic pain. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 1324-1328.	1.0	7
63	Activity-Based Probes for the High Temperature Requirement A Serine Proteases. <i>ACS Chemical Biology</i> , 2020, 15, 2346-2354.	1.6	7
64	Discovery of highly potent human glutaminyl cyclase (QC) inhibitors as anti-Alzheimer's agents by the combination of pharmacophore-based and structure-based design. <i>European Journal of Medicinal Chemistry</i> , 2021, 226, 113819.	2.6	7
65	A Facile and Practical Synthesis of Capsazepine, a Vanilloid Receptor Antagonist. <i>Synthetic Communications</i> , 1999, 29, 4127-4140.	1.1	6
66	Discovery of thienopyrrolotriazine derivatives to protect mitochondrial function against A β -induced neurotoxicity. <i>European Journal of Medicinal Chemistry</i> , 2017, 141, 240-256.	2.6	6
67	Structure-activity relationship of leucyladenylate sulfamate analogues as leucyl-tRNA synthetase (LRS)-targeting inhibitors of Mammalian target of rapamycin complex 1 (mTORC1). <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 1099-1109.	1.4	6
68	The SAR analysis of TRPV1 agonists with the Î±-methylated B-region. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 5227-5231.	1.0	5
69	Synthesis and biological evaluation of 3-(2-aminoethyl) uracil derivatives as gonadotropin-releasing hormone (GnRH) receptor antagonists. <i>European Journal of Medicinal Chemistry</i> , 2018, 145, 413-424.	2.6	5
70	A Turn-On Fluorescent Probe for Live-Cell Imaging of Biothiols. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 425-426.	1.0	4
71	Pyridyl-urea Derivatives as Blockers of A β -induced mPTP Opening for Alzheimer's Disease. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 3887-3888.	1.0	3
72	Cobalt (III) Complexes as Novel Matrix Metalloproteinase-9 Inhibitors. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 2762-2764.	1.0	3

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73	Thiophene-substituted Aza-BODIPYs as Near-Infrared Fluorophores. Bulletin of the Korean Chemical Society, 2015, 36, 1747-1748.	1.0	1
74	Synthesis and structure-activity relationship of mitochondria-targeting peptoids with varying hydrophobicity and cationic charge. Peptide Science, 0, , e24239.	1.0	1