Sun Choi

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103
papers2,261
citations24
h-index43
g-index106
ext. papers2,815
ext. citations5.4
avg, IF5.04
L-index

#	Paper	IF	Citations
103	Role of computer-aided drug design in modern drug discovery. <i>Archives of Pharmacal Research</i> , 2015 , 38, 1686-701	6.1	272
102	MLACP: machine-learning-based prediction of anticancer peptides. <i>Oncotarget</i> , 2017 , 8, 77121-77136	3.3	134
101	Oxidative modifications of glyceraldehyde-3-phosphate dehydrogenase play a key role in its multiple cellular functions. <i>Biochemical Journal</i> , 2009 , 423, 253-64	3.8	121
100	In Vivo Albumin Traps Photosensitizer Monomers from Self-Assembled Phthalocyanine Nanovesicles: A Facile and Switchable Theranostic Approach. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1366-1372	16.4	105
99	Capsiate, a nonpungent capsaicin-like compound, inhibits angiogenesis and vascular permeability via a direct inhibition of Src kinase activity. <i>Cancer Research</i> , 2008 , 68, 227-35	10.1	74
98	Harnessing the Therapeutic Potential of Capsaicin and Its Analogues in Pain and Other Diseases. <i>Molecules</i> , 2016 , 21,	4.8	73
97	Novel oxidative modifications in redox-active cysteine residues. <i>Molecular and Cellular Proteomics</i> , 2011 , 10, M110.000513	7.6	65
96	Transient receptor potential vanilloid type 1 antagonists: a patent review (2011 - 2014). <i>Expert Opinion on Therapeutic Patents</i> , 2015 , 25, 291-318	6.8	58
95	Structural insights into transient receptor potential vanilloid type 1 (TRPV1) from homology modeling, flexible docking, and mutational studies. <i>Journal of Computer-Aided Molecular Design</i> , 2011 , 25, 317-27	4.2	56
94	Recent Advances in Structure-Based Drug Design Targeting Class A G Protein-Coupled Receptors Utilizing Crystal Structures and Computational Simulations. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 1-46	8.3	55
93	Evolution of In Silico Strategies for Protein-Protein Interaction Drug Discovery. <i>Molecules</i> , 2018 , 23,	4.8	50
92	Herbal compound farnesiferol C exerts antiangiogenic and antitumor activity and targets multiple aspects of VEGFR1 (Flt1) or VEGFR2 (Flk1) signaling cascades. <i>Molecular Cancer Therapeutics</i> , 2010 , 9, 389-99	6.1	48
91	Molecular modeling studies of the novel inhibitors of DNA methyltransferases SGI-1027 and CBC12: implications for the mechanism of inhibition of DNMTs. <i>PLoS ONE</i> , 2013 , 8, e62152	3.7	44
90	Exploring G Protein-Coupled Receptors (GPCRs) Ligand Space via Cheminformatics Approaches: Impact on Rational Drug Design. <i>Frontiers in Pharmacology</i> , 2018 , 9, 128	5.6	43
89	Discovery of a new template for anticancer agents: 2Sdeoxy-2Sfluoro-4Sselenoarabinofuranosyl-cytosine (2SF-4Sseleno-ara-C). <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 5303-6	8.3	36
88	Mapping the intramolecular signal transduction of G-protein coupled receptors. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014 , 82, 727-43	4.2	35
87	Polymodal Transient Receptor Potential Vanilloid Type 1 Nocisensor: Structure, Modulators, and Therapeutic Applications. <i>Advances in Protein Chemistry and Structural Biology</i> , 2016 , 104, 81-125	5.3	31

(2008-2012)

86	2-(3-fluoro-4-methylsulfonylaminophenyl)propanamides as potent transient receptor potential vanilloid 1 (TRPV1) antagonists: structure-activity relationships of 2-amino derivatives in the N-(6-trifluoromethylpyridin-3-ylmethyl) C-region. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 8392-408	8.3	31
85	Structure-activity relationships of truncated C2- or C8-substituted adenosine derivatives as dual acting AA and Aladenosine receptor ligands. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 342-56	8.3	31
84	Transmembrane 4L Six Family Member 5 Senses Arginine for mTORC1 Signaling. <i>Cell Metabolism</i> , 2019 , 29, 1306-1319.e7	24.6	29
83	A novel pyrazole derivative protects from ovariectomy-induced osteoporosis through the inhibition of NADPH oxidase. <i>Scientific Reports</i> , 2016 , 6, 22389	4.9	28
82	X-ray crystal structure and binding mode analysis of human S-adenosylhomocysteine hydrolase complexed with novel mechanism-based inhibitors, haloneplanocin A analogues. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 930-8	8.3	27
81	Advances in Molecular Dynamics Simulations and Enhanced Sampling Methods for the Study of Protein Systems. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	25
80	Communication over the network of binary switches regulates the activation of A2A adenosine receptor. <i>PLoS Computational Biology</i> , 2015 , 11, e1004044	5	24
79	Structure-Activity Relationships of Neplanocin A Analogues as S-Adenosylhomocysteine Hydrolase Inhibitors and Their Antiviral and Antitumor Activities. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 5108-20	8.3	24
78	Alpha-substituted N-(4-tert-butylbenzyl)-NS[4-(methylsulfonylamino)benzyl]thiourea analogues as potent and stereospecific TRPV1 antagonists. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 6043-53	3.4	24
77	Discovery of Potent Human Glutaminyl Cyclase Inhibitors as Anti-Alzheimer Agents Based on Rational Design. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 2573-2590	8.3	23
76	Ultraslow Water-Mediated Transmembrane Interactions Regulate the Activation of A2A Adenosine Receptor. <i>Biophysical Journal</i> , 2016 , 111, 1180-1191	2.9	22
75	8-Hydroxy-2-deoxyguanosine prevents plaque formation and inhibits vascular smooth muscle cell activation through Rac1 inactivation. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 109-21	7.8	21
74	2-(3-Fluoro-4-methylsulfonylaminophenyl)propanamides as potent TRPV1 antagonists: structure activity relationships of the 2-oxy pyridine C-region. <i>European Journal of Medicinal Chemistry</i> , 2013 , 64, 589-602	6.8	21
73	Identification of a potent and noncytotoxic inhibitor of melanin production. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 5602-9	3.4	21
72	Importance of protein dynamics in the structure-based drug discovery of class A G protein-coupled receptors (GPCRs). <i>Current Opinion in Structural Biology</i> , 2019 , 55, 147-153	8.1	20
71	Synthesis and anti-renal fibrosis activity of conformationally locked truncated 2-hexynyl-N(6)-substituted-(N)-methanocarba-nucleosides as A3 adenosine receptor antagonists and partial agonists. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 1344-54	8.3	19
7°	The Cell Shape-determining Csd6 Protein from Helicobacter pylori Constitutes a New Family of L,D-Carboxypeptidase. <i>Journal of Biological Chemistry</i> , 2015 , 290, 25103-17	5.4	19
69	Stereoselective synthesis and conformational study of novel 2\$3\$Didehydro-2\$3\$dideoxy-4\$selenonucleosides. <i>Journal of Organic Chemistry</i> , 2008 , 73, 4259-62	4.2	19

68	N-Substituted 5SN-Methylcarbamoyl-4Sselenoadenosines as Potent and Selective A Adenosine Receptor Agonists with Unusual Sugar Puckering and Nucleobase Orientation. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 3422-3437	8.3	17
67	TRPV1 antagonist with high analgesic efficacy: 2-Thio pyridine C-region analogues of 2-(3-fluoro-4-methylsulfonylaminophenyl)propanamides. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 6657-64	3.4	17
66	Link between allosteric signal transduction and functional dynamics in a multisubunit enzyme: S-adenosylhomocysteine hydrolase. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19807-15	16.4	17
65	Water-Soluble Phthalocyanines Selectively Bind to Albumin Dimers: A Green Approach Toward Enhancing Tumor-Targeted Photodynamic Therapy. <i>Theranostics</i> , 2019 , 9, 6412-6423	12.1	17
64	Asymmetric Total Syntheses of Kopsane Alkaloids via a PtCl -Catalyzed Intramolecular [3+2] Cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12832-12836	16.4	15
63	2-Aryl substituted pyridine C-region analogues of 2-(3-fluoro-4-methylsulfonylaminophenyl)propanamides as highly potent TRPV1 antagonists. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 4044-7	2.9	15
62	trans-Stilbenoids: potent and selective inhibitors for human cytochrome P450 1B1. <i>MedChemComm</i> , 2011 , 2, 402	5	14
61	5-Lipoxygenase inhibitors suppress RANKL-induced osteoclast formation via NFATc1 expression. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 7069-78	3.4	13
60	2-Alkyl/alkenyl substituted pyridine C-region analogues of 2-(3-fluoro-4-methylsulfonylaminophenyl)propanamides as highly potent TRPV1 antagonists. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 4039-43	2.9	13
59	Discovery of New Human A(2A) Adenosine Receptor Agonists: Design, Synthesis, and Binding Mode of Truncated 2-Hexynyl-4Sthioadenosine. <i>ACS Medicinal Chemistry Letters</i> , 2010 , 2010, 516-520	4.3	13
58	3D-QSAR studies of heterocyclic quinones with inhibitory activity on vascular smooth muscle cell proliferation using pharmacophore-based alignment. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 9772	2394	13
57	Expediting the Design, Discovery and Development of Anticancer Drugs using Computational Approaches. <i>Current Medicinal Chemistry</i> , 2017 , 24, 4753-4778	4.3	12
56	Total Synthesis of Hoiamide A Using an Evans-Tishchenko Reaction as a Key Step. <i>Organic Letters</i> , 2019 , 21, 5471-5474	6.2	12
55	N-4-t-Butylbenzyl 2-(4-methylsulfonylaminophenyl) propanamide TRPV1 antagonists: Structure-activity relationships in the A-region. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 215-24	3.4	12
54	In silico prediction of multiple-category classification model for cytochrome P450 inhibitors and non-inhibitors using machine-learning method. <i>SAR and QSAR in Environmental Research</i> , 2017 , 28, 863-8	874	12
53	The design, synthesis and activity of pentapeptide pp60c-src inhibitors containing L-phosphotyrosine mimics. <i>Chemical Biology and Drug Design</i> , 1998 , 51, 271-81		12
52	Design, synthesis, and binding of homologated truncated 4Sthioadenosine derivatives at the human A3 adenosine receptors. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 7015-21	3.4	12
51	Potent human glutaminyl cyclase inhibitors as potential anti-AlzheimerS agents: Structure-activity relationship study of Arg-mimetic region. <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 1035-1049	3.4	11

(2015-2016)

50	Synthesis and biological evaluation of 3-substituted 5-benzylidene-1-methyl-2-thiohydantoins as potent NADPH oxidase (NOX) inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 4144-4151	3.4	11
49	Design, synthesis, and anticancer activity of C8-substituted-4Sthionucleosides as potential HSP90 inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 3418-28	3.4	11
48	ESubstituted 2-(3-fluoro-4-methylsulfonamidophenyl) acetamides as potent TRPV1 antagonists. Bioorganic and Medicinal Chemistry Letters, 2015 , 25, 2326-30	2.9	10
47	Anti-angiogenic activity of thienopyridine derivative LCB03-0110 by targeting VEGFR-2 and JAK/STAT3 Signalling. <i>Experimental Dermatology</i> , 2015 , 24, 503-9	4	10
46	Discovery of N-(3-fluoro-4-methylsulfonamidomethylphenyl)urea as a potent TRPV1 antagonistic template. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 3603-7	2.9	10
45	Identification of active Plasmodium falciparum calpain to establish screening system for Pf-calpain-based drug development. <i>Malaria Journal</i> , 2013 , 12, 47	3.6	10
44	In silico classification of adenosine receptor antagonists using Laplacian-modified naWe Bayesian, support vector machine, and recursive partitioning. <i>Journal of Molecular Graphics and Modelling</i> , 2010 , 28, 883-90	2.8	10
43	The discovery of 2,5-isomers of triazole-pyrrolopyrimidine as selective Janus kinase 2 (JAK2) inhibitors versus JAK1 and JAK3. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 5036-5046	3.4	10
42	2-Sulfonamidopyridine C-region analogs of 2-(3-fluoro-4-methylsulfonamidophenyl)propanamides as potent TRPV1 antagonists. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 1231-40	3.4	9
41	Promiscuous gating modifiers target the voltage sensor of K(v)7.2, TRPV1, and H(v)1 cation channels. <i>FASEB Journal</i> , 2014 , 28, 2591-602	0.9	9
40	Design, synthesis, and molecular modeling studies of 5Sdeoxy-5Sureidoadenosine: 5Sureido group as multiple hydrogen bonding donor in the active site of S-adenosylhomocysteine hydrolase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 4456-9	2.9	9
39	Efficient synthesis of 2-substituted 2,3-dihydro-4-quinolones as potential intermediates for 2-substituted 1,2,3,4-tetrahydro-4-quinolone antitumor agents. <i>Archives of Pharmacal Research</i> , 2006 , 29, 369-74	6.1	9
38	Stereoselective functionalization of the 1Sposition of 4Sthionucleosides. <i>Organic Letters</i> , 2006 , 8, 4267	-7602	9
37	Asymmetric synthesis and receptor activity of chiral simplified resiniferatoxin (sRTX) analogues as transient receptor potential vanilloid 1 (TRPV1) ligands. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 382-5	2.9	8
36	Pyrazole C-region analogues of 2-(3-fluoro-4-methylsulfonylaminophenyl)propanamides as potent TRPV1 antagonists. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 4383-4388	2.9	8
35	Non-vanillyl resiniferatoxin analogues as potent and metabolically stable transient receptor potential vanilloid 1 agonists. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 690-8	3.4	8
34	Balancing focused combinatorial libraries based on multiple GPCR ligands. <i>Journal of Computer-Aided Molecular Design</i> , 2006 , 20, 529-38	4.2	8
33	Structure activity relationships of benzyl C-region analogs of 2-(3-fluoro-4-methylsulfonamidophenyl)propanamides as potent TRPV1 antagonists. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 6844-54	3.4	7

32	Structure-activity relationship investigation of Phe-Arg mimetic region of human glutaminyl cyclase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 3133-3144	3.4	7
31	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, 8011-802	.7 ^{8.3}	7
30	Structural and Biochemical Characterization of the Curcumin-Reducing Activity of CurA from Vibrio vulnificus. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 10608-10616	5.7	7
29	t-Butyl pyridine and phenyl C-region analogues of 2-(3-fluoro-4-methylsulfonylaminophenyl)propanamides as potent TRPV1 antagonists. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 2451-2462	3.4	6
28	Asymmetric Total Syntheses of Kopsane Alkaloids via a PtCl2-Catalyzed Intramolecular [3+2] Cycloaddition. <i>Angewandte Chemie</i> , 2020 , 132, 12932-12936	3.6	6
27	Structural basis of the phosphorylation dependent complex formation of neurodegenerative disease protein Ataxin-1 and RBM17. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 449, 399-404	3.4	6
26	Discovery and Biological Evaluation of -Methyl-pyrrolo[2,3-]pyridine-5-carboxamide Derivatives as JAK1-Selective Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 958-979	8.3	6
25	Structure-activity relationships and molecular modeling of the N-(3-pivaloyloxy-2-benzylpropyl)-NS[4-(methylsulfonylamino)benzyl] thiourea template for TRPV1 antagonism. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 3656-60	2.9	5
24	The carbonate analogues of 5Shalogenated resiniferatoxin as TRPV1 ligands. <i>European Journal of Medicinal Chemistry</i> , 2013 , 68, 233-43	6.8	5
23	Receptor activity and conformational analysis of 5Shalogenated resiniferatoxin analogs as TRPV1 ligands. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 299-302	2.9	5
22	The effects of biasing torsional mutations in a conformational GA. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 1862-70	6.1	5
21	Understanding G Protein-Coupled Receptor Allostery via Molecular Dynamics Simulations: Implications for Drug Discovery. <i>Methods in Molecular Biology</i> , 2018 , 1762, 455-472	1.4	4
20	Structural origins for the loss of catalytic activities of bifunctional human LTA4H revealed through molecular dynamics simulations. <i>PLoS ONE</i> , 2012 , 7, e41063	3.7	4
19	Selectivity enhancement arising from interactions at the PI3K unique pocket. <i>ChemMedChem</i> , 2012 , 7, 1379-83	3.7	4
18	Heterocycle-linked phenylbenzyl amides as novel TRPV1 antagonists and their TRPV1 binding modes: constraint-induced enhancement of in vitro and in vivo activities. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 400-9	4.5	4
17	Emerging computational approaches for the study of regio- and stereoselectivity in organic synthesis. <i>Organic Chemistry Frontiers</i> , 2021 , 8, 5165-5181	5.2	4
16	Multiscale Molecular Modeling in G Protein-Coupled Receptor (GPCR)-Ligand Studies. <i>Biomolecules</i> , 2020 , 10,	5.9	3
15	Inhibitory effect of tartrate against phosphate-induced DJ-1 aggregation. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 1650-1658	7.9	3

LIST OF PUBLICATIONS

14	4-Aminophenyl acetamides and propanamides as potent transient receptor potential vanilloid 1 (TRPV1) ligands. <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 4509-4517	3.4	3
13	6,6-Fused heterocyclic ureas as highly potent TRPV1 antagonists. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 803-6	2.9	3
12	Binding mode analysis of topoisomerase inhibitors, 6-arylamino-7-chloro-quinazoline-5,8-diones, within the cleavable complex of human topoisomerase I and DNA. <i>Archives of Pharmacal Research</i> , 2007 , 30, 1526-35	6.1	3
11	Big data and artificial intelligence (AI) methodologies for computer-aided drug design (CADD) <i>Biochemical Society Transactions</i> , 2022 ,	5.1	3
10	Recent Applications of Deep Learning Methods on Evolution- and Contact-Based Protein Structure Prediction. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
9	Adaptable Small Ligand of CYP1 Enzymes for Use in Understanding the Structural Features Determining Isoform Selectivity. <i>ACS Medicinal Chemistry Letters</i> , 2018 , 9, 1247-1252	4.3	3
8	Subtle Chemical Changes Cross the Boundary between Agonist and Antagonist: New A Adenosine Receptor Homology Models and Structural Network Analysis Can Predict This Boundary. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 12525-12536	8.3	3
7	Discovery of Benzopyridone-Based Transient Receptor Potential Vanilloid 1 Agonists and Antagonists and the Structural Elucidation of Their Activity Shift. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 370-384	8.3	3
6	3D-QSAR studies of cytotoxic heterocyclic quinones using calculated reduction potential. <i>Drug Development Research</i> , 2009 , 70, 438-444	5.1	1
5	Integrated Ligand and Structure-Based Investigation of Structural Requirements for Silent Information Regulator 1 (SIRT1) Activation. <i>Current Topics in Medicinal Chemistry</i> , 2018 , 18, 2313-2324	3	1
4	N-terminus-independent activation of c-Src via binding to a tetraspan(in) TM4SF5 in hepatocellular carcinoma is abolished by the TM4SF5 C-terminal peptide application. <i>Theranostics</i> , 2021 , 11, 8092-8111	12.1	1
3	Structural Characterization of Receptor-Receptor Interactions in the Allosteric Modulation of G Protein-Coupled Receptor (GPCR) Dimers. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
2	2-(Halogenated Phenyl) acetamides and propanamides as potent TRPV1 antagonists. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021 , 48, 128266	2.9	O
1	Total synthesis of the putative structure of the proposed Banyasin A. <i>Frontiers in Chemistry</i> , 2015 , 3, 19	5	