Arun K Ghosh

List of Publications by Year
in descending order

346 papers	19,196 citations	11608 70 h-index	19690 117 g-index
413 all docs	413 docs citations	413 times ranked	13828 citing authors

#	Article	IF	Citations
1	C2-Symmetric chiral bis(oxazoline)â€“metal complexes in catalytic asymmetric synthesis. Tetrahedron: Asymmetry, 1998, 9, 1-45.	1.8	824
2	Structure of the Protease Domain of Memapsin 2 (beta -Secretase) Complexed with Inhibitor. Science, 2000, 290, 150-153.	6.0	717
3	Organic Carbamates in Drug Design and Medicinal Chemistry. Journal of Medicinal Chemistry, 2015, 58, 2895-2940.	2.9	493
4	A noncovalent class of papain-like protease/deubiquitinase inhibitors blocks SARS virus replication. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16119-16124.	3.3	407
5	Novel bis-Tetrahydrofuranylurethane-Containing Nonpeptidic Protease Inhibitor (PI) UIC-94017 (TMC114) with Potent Activity against Multi-PI-Resistant Human Immunodeficiency Virus In Vitro. Antimicrobial Agents and Chemotherapy, 2003, 47, 3123-3129.	1.4	355
6	Recent Progress in the Development of HIV-1 Protease Inhibitors for the Treatment of HIV/AIDS. Journal of Medicinal Chemistry, 2016, 59, 5172-5208.	2.9	332
7	BACE1 (Î²-secretase) inhibitors for the treatment of Alzheimer's disease. Chemical Society Reviews, 2014, 43, 6765-6813.	18.7	274
8	Structure-Based Design:â€‰ Potent Inhibitors of Human Brain Memapsin 2 (Î²-Secretase). Journal of Medicinal Chemistry, 2001, 44, 2865-2868.	2.9	240
9	Design of HIV Protease Inhibitors Targeting Protein Backbone: An Effective Strategy for Combating Drug Resistance. Accounts of Chemical Research, 2008, 41, 78-86.	7.6	236
10	Design of Potent Inhibitors for Human Brain Memapsin 2 (Î²-Secretase). Journal of the American Chemical Society, 2000, 122, 3522-3523.	6.6	235
11	The Microtubule Stabilizing Agent Laulimalide Does Not Bind in the Taxoid Site, Kills Cells Resistant to Paclitaxel and Epothilones, and May Not Require Its Epoxide Moiety for Activityâ€. Biochemistry, 2002, 41, 9109-9115.	1.2	231
12	Drug Development and Medicinal Chemistry Efforts toward SARSâ€Coronavirus and Covidâ€19 Therapeutics. ChemMedChem, 2020, 15, 907-932.	1.6	229
13	Developing Î²â€secretase inhibitors for treatment of Alzheimerâ€™s disease. Journal of Neurochemistry, 2012, 120, 71-83.	2.1	227
14	High Resolution Crystal Structures of HIV-1 Protease with a Potent Non-peptide Inhibitor (UIC-94017) Active Against Multi-drug-resistant Clinical Strains. Journal of Molecular Biology, 2004, 338, 341-352.	2.0	205
15	Crystal Structure of Memapsin 2 (Î²-Secretase) in Complex with an Inhibitor OM00-3â€. Biochemistry, 2002, 41, 10963-10967.	1.2	204
16	Subsite Specificity of Memapsin 2 (Î²-Secretase):Â Implications for Inhibitor Designâ€. Biochemistry, 2001, 40, 10001-10006.	1.2	196
17	Darunavir, a conceptually new HIV-1 protease inhibitor for the treatment of drug-resistant HIV. Bioorganic and Medicinal Chemistry, 2007, 15, 7576-7580.	1.4	195
18	Total synthesis of (.+-.)-ginkgolide B. Journal of the American Chemical Society, 1988, 110, 649-651.	6.6	188

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19	Î²-Secretase as a Therapeutic Target for Alzheimer's Disease. Neurotherapeutics, 2008, 5, 399-408.	2.1	175
20	Urea Derivatives in Modern Drug Discovery and Medicinal Chemistry. Journal of Medicinal Chemistry, 2020, 63, 2751-2788.	2.9	174
21	Potent HIV protease inhibitors incorporating high-affinity P2-ligands and (R)-(hydroxyethylamino)sulfonamide isostere. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 687-690.	1.0	154
22	Structure-Based Design of Novel HIV-1 Protease Inhibitors To Combat Drug Resistance. Journal of Medicinal Chemistry, 2006, 49, 5252-5261.	2.9	144
23	Potent Inhibition of HIV-1 Replication by Novel Non-peptidyl Small Molecule Inhibitors of Protease Dimerization. Journal of Biological Chemistry, 2007, 282, 28709-28720.	1.6	137
24	Ultra-high Resolution Crystal Structure of HIV-1 Protease Mutant Reveals Two Binding Sites for Clinical Inhibitor TMC114. Journal of Molecular Biology, 2006, 363, 161-173.	2.0	136
25	A Potent Human Immunodeficiency Virus Type 1 Protease Inhibitor, UIC-94003 (TMC-126), and Selection of a Novel (A28S) Mutation in the Protease Active Site. Journal of Virology, 2002, 76, 1349-1358.	1.5	134
26	Stereoselective Photochemical 1,3-Dioxolane Addition to5-Alkoxymethyl-2(5H)-furanone:Â Synthesis of Bis-tetrahydrofuranyl Ligand for HIV Protease Inhibitor UIC-94017 (TMC-114). Journal of Organic Chemistry, 2004, 69, 7822-7829.	1.7	134
27	Ligand-induced Dimerization of Middle East Respiratory Syndrome (MERS) Coronavirus nsp5 Protease (3CLpro). Journal of Biological Chemistry, 2015, 290, 19403-19422.	1.6	134
28	Effectiveness of Nonpeptide Clinical Inhibitor TMC-114 on HIV-1 Protease with Highly Drug Resistant Mutations D30N, I50V, and L90M. Journal of Medicinal Chemistry, 2006, 49, 1379-1387.	2.9	132
29	Enhancing Protein Backbone Bindingâ€"A Fruitful Concept for Combating Drugâ€Resistant HIV. Angewandte Chemie - International Edition, 2012, 51, 1778-1802.	7.2	131
30	Total Synthesis of Microtubule-Stabilizing Agent (â^')-Laulimalide1. Journal of Organic Chemistry, 2001, 66, 8973-8982.	1.7	130
31	Severe Acute Respiratory Syndrome Coronavirus Papain-like Novel Protease Inhibitors: Design, Synthesis, Proteinâ^'Ligand X-ray Structure and Biological Evaluation. Journal of Medicinal Chemistry, 2010, 53, 4968-4979.	2.9	129
32	A small moleculeÂcompound with an indole moiety inhibits the main protease of SARS-CoV-2 and blocks virus replication. Nature Communications, 2021, 12, 668.	5.8	126
33	Ring-closing metathesis strategy to unsaturated Î³- and Î´-lactones: Synthesis of hydroxyethylene isostere for protease inhibitors. Tetrahedron Letters, 1998, 39, 4651-4654.	0.7	123
34	Bis-Tetrahydrofuran: a Privileged Ligand for Darunavir and a New Generation of HIV Protease Inhibitors That Combat Drug Resistance. ChemMedChem, 2006, 1, 939-950.	1.6	116
35	Design and Synthesis of Peptidomimetic Severe Acute Respiratory Syndrome Chymotrypsin-like Protease Inhibitors. Journal of Medicinal Chemistry, 2005, 48, 6767-6771.	2.9	114
36	Inhibitor Recognition Specificity of MERS-CoV Papain-like Protease May Differ from That of SARS-CoV. ACS Chemical Biology, 2015, 10, 1456-1465.	1.6	114

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37	Synergistic Effects of Peloruside A and Laulimalide with Taxoid Site Drugs, but Not with Each Other, on Tubulin Assembly. Molecular Pharmacology, 2006, 70, 1555-1564.	1.0	112
38	Diastereofacial selection in nitrile oxide cycloaddition reactions. The anti-directing effect of an allylic oxygen and some new results on the ring metalation of isoxazolines. A synthesis of (.+-.)-blastmycinone. Journal of Organic Chemistry, 1984, 49, 2762-2772.	1.7	110
39	Structure-Based Design, Synthesis, and Biological Evaluation of a Series of Novel and Reversible Inhibitors for the Severe Acute Respiratory Syndromeâ˜Coronavirus Papain-Like Protease. Journal of Medicinal Chemistry, 2009, 52, 5228-5240.	2.9	110
40	In vivo inhibition of AÎ² production by memapsin 2 (Î²â€secretase) inhibitors. Journal of Neurochemistry, 2004, 89, 1409-1416.	2.1	106
41	Î²â€Secretase inhibitor GRLâ€8234 rescues ageâ€related cognitive decline in APP transgenic mice. FASEB Journal, 2011, 25, 775-784.	0.2	106
42	Synthesis of Enantiomerically Pure Anti-Aldols:â€‰ A Highly Stereoselective Ester-Derived Titanium Enolate Aldol Reaction. Journal of the American Chemical Society, 1996, 118, 2527-2528.	6.6	105
43	Syntheses of FDA Approved HIV Protease Inhibitors. Synthesis, 2001, 2001, 2203-2229.	1.2	103
44	N,N`-dissuccinimidyl carbonate: a useful reagent for alkoxycarbonylation of amines. Tetrahedron Letters, 1992, 33, 2781-2784.	0.7	101
45	Nonpeptidal P2Ligands for HIV Protease Inhibitors:Â Structure-Based Design, Synthesis, and Biological Evaluation. Journal of Medicinal Chemistry, 1996, 39, 3278-3290.	2.9	99
46	Design and synthesis of novel HIV-1 protease inhibitors incorporating oxyindoles as the -ligands. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 1869-1873.	1.0	99
47	Design, synthesis and antiviral efficacy of a series of potent chloropyridyl ester-derived SARS-CoV 3CLpro inhibitors. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5684-5688.	1.0	99
48	Total Synthesis of (â˜)-Laulimalide. Journal of the American Chemical Society, 2000, 122, 11027-11028.	6.6	98
49	Enantioselective Total Synthesis of (+)-Amphidinolide T1. Journal of the American Chemical Society, 2003, 125, 2374-2375.	6.6	96
50	Structure-based design, synthesis, and biological evaluation of peptidomimetic SARS-CoV 3CLpro inhibitors. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 5876-5880.	1.0	94
51	Potent memapsin 2 (Î²-secretase) inhibitors: Design, synthesis, protein-ligand X-ray structure, and in vivo evaluation. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 1031-1036.	1.0	93
52	Conformationally constrained bis(oxazoline) derived chiral catalyst: A highly effective enantioselective Diels-Alder reaction. Tetrahedron Letters, 1996, 37, 3815-3818.	0.7	91
53	3-Tetrahydrofuran and pyran urethanes as high-affinity P2-ligands for HIV-1 protease inhibitors. Journal of Medicinal Chemistry, 1993, 36, 292-294.	2.9	89
54	Enantioselective Total Synthesis of (+)-Largazole, a Potent Inhibitor of Histone Deacetylase. Organic Letters, 2008, 10, 3907-3909.	2.4	89

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55	Structure-based design of cycloamideâ€“urethane-derived novel inhibitors of human brain memapsin 2 (Î²-secretase). Bioorganic and Medicinal Chemistry Letters, 2005, 15, 15-20.	1.0	87
56	Design, Synthesis, and X-ray Structure of Potent Memapsin 2 (Î²-Secretase) Inhibitors with Isophthalamide Derivatives as the P2-P3-Ligands. Journal of Medicinal Chemistry, 2007, 50, 2399-2407.	2.9	87
57	In Vitro Selection of Highly Darunavir-Resistant and Replication-Competent HIV-1 Variants by Using a Mixture of Clinical HIV-1 Isolates Resistant to Multiple Conventional Protease Inhibitors. Journal of Virology, 2010, 84, 11961-11969.	1.5	85
58	Diastereoselection in intermolecular nitrile oxide cycloaddition (NOC) reactions: confirmation of the "anti-periplanar effect" through a simple synthesis of 2-deoxy-D-ribose. Journal of the American Chemical Society, 1982, 104, 5788-5789.	6.6	84
59	Atomic resolution crystal structures of HIV-1 protease and mutants V82A and I84V with saquinavir. Proteins: Structure, Function and Bioinformatics, 2007, 67, 232-242.	1.5	84
60	Effect of Flap Mutations on Structure of HIV-1 Protease and Inhibition by Saquinavir and Darunavir. Journal of Molecular Biology, 2008, 381, 102-115.	2.0	81
61	Coronaviruses Resistant to a 3C-Like Protease Inhibitor Are Attenuated for Replication and Pathogenesis, Revealing a Low Genetic Barrier but High Fitness Cost of Resistance. Journal of Virology, 2014, 88, 11886-11898.	1.5	81
62	Synthesis and optical resolution of high affinity P2-ligands for HIV-1 protease inhibitors. Tetrahedron Letters, 1995, 36, 505-508.	0.7	80
63	The Curtius rearrangement: mechanistic insight and recent applications in natural product syntheses. Organic and Biomolecular Chemistry, 2018, 16, 2006-2027.	1.5	80
64	SYNTHETIC STUDIES OF ANTITUMOR MACROLIDE LAULIMALIDE: ENANTIOSELECTIVE SYNTHESIS OF THE C3-C14 SEGMENT BY A CATALYTIC HETERO DIELS-ALDER STRATEGY. Tetrahedron Letters, 1997, 38, 2427-2430.	0.7	77
65	Potent HIV protease inhibitors: the development of tetrahydrofuranylglycines as novel P2-ligands and pyrazine amides as P3-ligands. Journal of Medicinal Chemistry, 1993, 36, 2300-2310.	2.9	76
66	Î²-Secretase as a Therapeutic Target for Inhibitor Drugs. Current Medicinal Chemistry, 2002, 9, 1135-1144.	1.2	76
67	Structural Locations and Functional Roles of New Subsites S5, S6, and S7in Memapsin 2 (Î²-Secretase)â€,â€¡. Biochemistry, 2005, 44, 105-112.	1.2	76
68	Laulimalide and Paclitaxel: A Comparison of Their Effects on Tubulin Assembly and Their Synergistic Action When Present Simultaneously. Molecular Pharmacology, 2004, 66, 113-121.	1.0	75
69	Total Synthesis of (â^')-Platensimycin, a Novel Antibacterial Agent. Journal of Organic Chemistry, 2009, 74, 1163-1170.	1.7	75
70	Prediction of Potency of Protease Inhibitors Using Free Energy Simulations with Polarizable Quantum Mechanics-Based Ligand Charges and a Hybrid Water Model. Journal of Chemical Information and Modeling, 2009, 49, 2851-2862.	2.5	74
71	Enantioselective Synthesis of (â^')-Platensimycin Oxatetracyclic Core by Using an Intramolecular Dielsâ^'Alder Reaction. Organic Letters, 2007, 9, 4013-4016.	2.4	73
72	Interchangeable SF3B1 inhibitors interfere with pre-mRNA splicing at multiple stages. Rna, 2016, 22, 350-359.	1.6	73

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73	Enantioselective Total Synthesis of (â˜)-Zampanolide, a Potent Microtubule-Stabilizing Agent. Organic Letters, 2011, 13, 4108-4111.	2.4	72
74	Total Synthesis and Structural Revision of (+)-Amphidinolide W. Journal of the American Chemical Society, 2004, 126, 3704-3705.	6.6	71
75	Structure-Based Design of HIV-1 Protease Inhibitors: Replacement of Two Amides and a 10.pi.-Aromatic System by a Fused Bis-tetrahydrofuran. Journal of Medicinal Chemistry, 1994, 37, 2506-2508.	2.9	70
76	cis-1-Aminoindan-2-ol in Asymmetric Syntheses. Synthesis, 1998, 1998, 937-961.	1.2	70
77	Counterions of BINAPâ˜Pt(II) and â˜Pd(II) Complexes:Â Novel Catalysts for Highly Enantioselective Dielsâ˜Alder Reaction. Organic Letters, 1999, 1, 2157-2159.	2.4	70
78	Dimerization of HIV-1 protease occurs through two steps relating to the mechanism of protease dimerization inhibition by darunavir. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12234-12239.	3.3	70
79	Design and Synthesis of Potent HIV-1 Protease Inhibitors Incorporating Hexahydrofuropyranol-Derived High Affinity P₂ Ligands: Structureâ˜Activity Studies and Biological Evaluation. Journal of Medicinal Chemistry, 2011, 54, 622-634.	2.9	69
80	Total Synthesis of (+)-Sinefungin. Journal of Organic Chemistry, 1996, 61, 6175-6182.	1.7	68
81	Asymmetric hetero Diels-Alder reactions of Danishefsky's diene and glyoxylate esters catalyzed by chiral bisoxazoline derived catalysts. Tetrahedron: Asymmetry, 1996, 7, 2165-2168.	1.8	68
82	A stereoselective synthesis of (â˜)-tetrahydrolipstatin. Chemical Communications, 1999, 1999, 1743-1744.	2.2	67
83	A Novel Bis-Tetrahydrofuranylurethane-Containing Nonpeptidic Protease Inhibitor (PI), GRL-98065, Is Potent against Multiple-PI-Resistant Human Immunodeficiency Virus In Vitro. Antimicrobial Agents and Chemotherapy, 2007, 51, 2143-2155.	1.4	66
84	Enantioselective Total Synthesis of Peloruside A:â€‰ A Potent Microtubule Stabilizer. Organic Letters, 2008, 10, 1001-1004.	2.4	66
85	Achmatowicz reaction and its application in the syntheses of bioactive molecules. RSC Advances, 2016, 6, 111564-111598.	1.7	66
86	The Curtius Rearrangement: Applications in Modern Drug Discovery and Medicinal Chemistry. ChemMedChem, 2018, 13, 2351-2373.	1.6	66
87	Design and Development of Highly Potent HIV-1 Protease Inhibitors with a Crown-Like Oxotricyclic Core as the P2-Ligand To Combat Multidrug-Resistant HIV Variants. Journal of Medicinal Chemistry, 2017, 60, 4267-4278.	2.9	64
88	Mn(III)-promoted annulation of enol ethers and esters to fused or spiro 2-cyclopentenones. Tetrahedron Letters, 1987, 28, 175-178.	0.7	63
89	Enantioselective Synthesis of (+)-Cryptophycin 52 (LY355703), a Potent Antimitotic Antitumor Agent. Journal of Organic Chemistry, 2003, 68, 9823-9826.	1.7	63
90	Total Synthesis and Revision of C6 Stereochemistry of (+)-Amphidinolide W. Journal of Organic Chemistry, 2006, 71, 1085-1093.	1.7	63

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91	Design, Synthesis and X-ray Structure of Proteinâ˜Ligand Complexes:Â Important Insight into Selectivity of Memapsin 2 (Î²-Secretase) Inhibitors. Journal of the American Chemical Society, 2006, 128, 5310-5311.	6.6	63
92	An efficient synthesis of hydroxyethylene dipeptide isosteres: the core unit of potent HIV-1 protease inhibitors. Journal of Organic Chemistry, 1991, 56, 6500-6503.	1.7	62
93	Transition-State Mimetics for HIV Protease Inhibitors:Â Stereocontrolled Synthesis of Hydroxyethylene and Hydroxyethylamine Isosteres by Ester-Derived Titanium Enolate Syn and Anti-Aldol Reactions. Journal of Organic Chemistry, 1998, 63, 6146-6152.	1.7	62
94	Coherence between Cellular Responses and in Vitro Splicing Inhibition for the Anti-tumor Drug Pladienolide B and Its Analogs. Journal of Biological Chemistry, 2014, 289, 1938-1947.	1.6	62
95	Total Synthesis of Antitumor Depsipeptide (â˜)-Doliculide. Organic Letters, 2001, 3, 635-638.	2.4	61
96	Structure-Based Design:Â Synthesis and Biological Evaluation of a Series of Novel Cycloamide-Derived HIV-1 Protease Inhibitors. Journal of Medicinal Chemistry, 2005, 48, 3576-3585.	2.9	61
97	P-Glycoprotein Mediates Efflux Transport of Darunavir in Human Intestinal Caco-2 and ABCB1 Gene-Transfected Renal LLC-PK1 Cell Lines. Biological and Pharmaceutical Bulletin, 2009, 32, 1588-1593.	0.6	61
98	Joint X-ray/Neutron Crystallographic Study of HIV-1 Protease with Clinical Inhibitor Amprenavir: Insights for Drug Design. Journal of Medicinal Chemistry, 2013, 56, 5631-5635.	2.9	61
99	Asymmetric Total Synthesis of the Gastroprotective Microbial Agent AI-77-B. European Journal of Organic Chemistry, 2003, 2003, 821-832.	1.2	60
100	Design of HIV-1 Protease Inhibitors with Pyrrolidinones and Oxazolidinones as Novel P1â€²-Ligands To Enhance Backbone-Binding Interactions with Protease: Synthesis, Biological Evaluation, and Proteinâ˜Ligand X-ray Studies. Journal of Medicinal Chemistry, 2009, 52, 3902-3914.	2.9	60
101	A Stereoselective Synthesis of (+)-Herboxidiene/GEX1A. Organic Letters, 2011, 13, 66-69.	2.4	59
102	Assignment of Absolute Stereochemistry and Total Synthesis of (â˜)-Spongidepsin. Organic Letters, 2004, 6, 2055-2058.	2.4	57
103	The Development of Cyclic Sulfolanes as Novel and High-Affinity P2 Ligands for HIV-1 Protease Inhibitors. Journal of Medicinal Chemistry, 1994, 37, 1177-1188.	2.9	56
104	Specificity of Memapsin 1 and Its Implications on the Design of Memapsin 2 (Î²-Secretase) Inhibitor Selectivity. Biochemistry, 2002, 41, 8742-8746.	1.2	56
105	Memapsin 2 (Beta-Secretase) Inhibitors: Drug Development. Current Alzheimer Research, 2008, 5, 121-131.	0.7	55
106	A Mouse Model for Betacoronavirus Subgroup 2c Using a Bat Coronavirus Strain HKU5 Variant. MBio, 2014, 5, e00047-14.	1.8	55
107	Indole Chloropyridinyl Ester-Derived SARS-CoV-2 3CLpro Inhibitors: Enzyme Inhibition, Antiviral Efficacy, Structureâ€“Activity Relationship, and X-ray Structural Studies. Journal of Medicinal Chemistry, 2021, 64, 14702-14714.	2.9	55
108	Asymmetric Synthesis of (â˜)-Tetrahydrolipstatin:â€‰ Ananti-Aldol-Based Strategy. Organic Letters, 2000, 2, 2405-2407.	2.4	53

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109	(â˜)-Doliculide, a New Macrocyclic Depsipeptide Enhancer of Actin Assembly. Journal of Biological Chemistry, 2002, 277, 32165-32171.	1.6	53
110	Enantioselective Total Synthesis of Pladienolide B: A Potent Spliceosome Inhibitor. Organic Letters, 2012, 14, 4730-4733.	2.4	53
111	Total synthesis of ginkgolide a. Tetrahedron Letters, 1988, 29, 3205-3206.	0.7	52
112	Tartaric Acid and Tartrates in the Synthesis of Bioactive Molecules. Synthesis, 2001, 2001, 1281-1301.	1.2	52
113	GRL-0920, an Indole Chloropyridinyl Ester, Completely Blocks SARS-CoV-2 Infection. MBio, 2020, 11, .	1.8	52
114	Enantioselective Total Synthesis of (+)-Jasplakinolide. Organic Letters, 2007, 9, 2425-2427.	2.4	51
115	Enantioselective Total Synthesis of Macrolide Antitumor Agent (â˜)-Lasonolide A. Organic Letters, 2007, 9, 1437-1440.	2.4	51
116	Selective inhibition of the West Nile virus methyltransferase by nucleoside analogs. Antiviral Research, 2013, 97, 232-239.	1.9	51
117	Highly enantioselective aldol reaction: development of a new chiral auxiliary from cis-1-amino-2-hydroxyindan. Journal of the Chemical Society Chemical Communications, 1992, 1992, 1673.	2.0	50
118	Asymmetric Synthesis of anti-Aldol Segments via a Nonaldol Route: Synthetic Applications to Statines and (â˜)-Tetrahydrolipstatin. Journal of Organic Chemistry, 2009, 74, 4508-4518.	1.7	50
119	Cyclic sulfolanes as novel and high-affinity P2 ligands for HIV-1 protease inhibitors. Journal of Medicinal Chemistry, 1993, 36, 924-927.	2.9	49
120	Enantioselective Syntheses of FR901464 and Spliceostatin A: Potent Inhibitors of Spliceosome. Organic Letters, 2013, 15, 5088-5091.	2.4	49
121	Bis(oxazoline) derived cationic aqua complexes: highly effective catalysts for enantioselective Dielsâ€“Alder reactions. Tetrahedron: Asymmetry, 1998, 9, 3687-3691.	1.8	48
122	Peloruside B, A Potent Antitumor Macrolide from the New Zealand Marine Sponge Mycale hentscheli: Isolation, Structure, Total Synthesis, and Bioactivity. Journal of Organic Chemistry, 2010, 75, 2-10.	1.7	48
123	Development of Protease Inhibitors and the Fight with Drugâ€Resistant HIVâ€1 Variants. Advances in Pharmacology, 2008, 56, 169-197.	1.2	47
124	Probing Multidrugâ€Resistance and Proteinâ€“Ligand Interactions with Oxatricyclic Designed Ligands in HIVâ€1 Protease Inhibitors. ChemMedChem, 2010, 5, 1850-1854.	1.6	47
125	Tetrahydrofuran, tetrahydropyran, triazoles and related heterocyclic derivatives as HIV protease inhibitors. Future Medicinal Chemistry, 2011, 3, 1181-1197.	1.1	47
126	Ester derived titanium enolate aldol reaction: Highly diastereoselective synthesis of syn- and anti-aldols. Tetrahedron Letters, 1997, 38, 7171-7174.	0.7	46

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127	Two-Step Synthesis of Furans by Mn(III)-Promoted Annulation of Enol Ethers. Chemistry Letters, 1987, 16, 223-226.	0.7	45
128	An enantioselective synthesis of the C2â€“C16 segment of antitumor macrolide laulimalide. Tetrahedron Letters, 2000, 41, 2319-2322.	0.7	45
129	A Convergent, Enantioselective Total Synthesis of Streptogramin Antibiotic (â^)-Madumycin IIâ€. Journal of Organic Chemistry, 1997, 62, 7908-7909.	1.7	44
130	Structural Evidence for Effectiveness of Darunavir and Two Related Antiviral Inhibitors against HIV-2 Protease. Journal of Molecular Biology, 2008, 384, 178-192.	2.0	44
131	Harnessing Natureâ€™s Insight: Design of Aspartyl Protease Inhibitors from Treatment of Drug-Resistant HIV to Alzheimerâ€™s Disease. Journal of Medicinal Chemistry, 2009, 52, 2163-2176.	2.9	44
132	A novel central nervous system-penetrating protease inhibitor overcomes human immunodeficiency virus 1 resistance with unprecedented aM to pM potency. ELife, 2017, 6, .	2.8	44
133	Potent HIV-1 protease inhibitors: stereoselective synthesis of a dipeptide mimic. Journal of Organic Chemistry, 1993, 58, 1025-1029.	1.7	43
134	An Asymmetric Total Synthesis of Brevisamide. Organic Letters, 2009, 11, 4164-4167.	2.4	43
135	Cu(II)-Catalyzed Olefin Migration and Prins Cyclization: Highly Diastereoselective Synthesis of Substituted Tetrahydropyrans. Organic Letters, 2011, 13, 4328-4331.	2.4	43
136	Highly Potent HIV-1 Protease Inhibitors with Novel Tricyclic P2 Ligands: Design, Synthesis, and Proteinâ€“Ligand X-ray Studies. Journal of Medicinal Chemistry, 2013, 56, 6792-6802.	2.9	42
137	Conformations of Laulimalide in DMSO-d6. Journal of the American Chemical Society, 2005, 127, 12838-12846.	6.6	41
138	Methods for pyranoannulation: an approach to a new class of polyethers. Journal of Organic Chemistry, 1985, 50, 3017-3019.	1.7	40
139	A stereoselective synthesis of (+)-boronolide. Tetrahedron Letters, 2000, 41, 1003-1006.	0.7	40
140	Stereoselective Synthesis of Pseudopeptide Microbial Agent AI-77-B. Organic Letters, 2001, 3, 2677-2680.	2.4	40
141	Potent New Antiviral Compound Shows Similar Inhibition and Structural Interactions with Drug Resistant Mutants and Wild Type HIV-1 Proteaseâ€. Journal of Medicinal Chemistry, 2007, 50, 4509-4515.	2.9	40
142	Flexible Cyclic Ethers/Polyethers as Novel P2-Ligands for HIV-1 Protease Inhibitors: Design, Synthesis, Biological Evaluation, and Proteinâ^'Ligand X-ray Studies. Journal of Medicinal Chemistry, 2008, 51, 6021-6033.	2.9	40
143	Design, Synthesis, Proteinâ^'Ligand X-ray Structure, and Biological Evaluation of a Series of Novel Macrocyclic Human Immunodeficiency Virus-1 Protease Inhibitors to Combat Drug Resistance. Journal of Medicinal Chemistry, 2009, 52, 7689-7705.	2.9	40
144	Loss of Protease Dimerization Inhibition Activity of Darunavir Is Associated with the Acquisition of Resistance to Darunavir by HIV-1. Journal of Virology, 2011, 85, 10079-10089.	1.5	40

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145	Structure based design: Novel spirocyclic ethers as nonpeptidal P2-ligands for HIV protease inhibitors. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 979-982.	1.0	39
146	Total Synthesis of (+)-Polyoxin J. Journal of Organic Chemistry, 1999, 64, 2789-2795.	1.7	39
147	Asymmetric hetero Dielsâ€“Alder route to quaternary carbon centers: synthesis of (â˜)-malyngolide. Tetrahedron Letters, 2001, 42, 6231-6233.	0.7	39
148	The Structural Evolution of β-Secretase Inhibitors: A Focus on the Development of Small-Molecule Inhibitors. Current Topics in Medicinal Chemistry, 2013, 13, 1787-1807.	1.0	39
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