

Bruno Melillo

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,571
citations

377584

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citing authors

#	ARTICLE	IF	CITATIONS
1	Crystallization-Based Synthetic Route to Antimalarial Agent BRD5018: Diazocene Ring Formation via a Staudinger-aza-Wittig Reaction on an Azetidine-Ribose Template. <i>Organic Process Research and Development</i> , 2022, 26, 817-831.	1.3	5
2	Bicyclic azetidines target acute and chronic stages of <i>Toxoplasma gondii</i> by inhibiting parasite phenylalanyl t-RNA synthetase. <i>Nature Communications</i> , 2022, 13, 459.	5.8	7
3	Inhibition of <i>Plasmodium falciparum</i> phenylalanine tRNA synthetase provides opportunity for antimalarial drug development. <i>Structure</i> , 2022, 30, 962-972.e3.	1.6	4
4	Stereochemical diversity as a source of discovery in chemical biology. <i>Current Research in Chemical Biology</i> , 2022, 2, 100028.	1.4	21
5	LPCAT3 Inhibitors Remodel the Polyunsaturated Phospholipid Content of Human Cells and Protect from Ferroptosis. <i>ACS Chemical Biology</i> , 2022, 17, 1607-1618.	1.6	51
6	Stabilizing the HIV-1 Envelope Glycoprotein State 2A Conformation. <i>Journal of Virology</i> , 2021, 95, .	1.5	9
7	Cryo-EM structures of HIV-1 trimer bound to CD4-mimetics BNM-III-170 and M48U1 adopt a CD4-bound open conformation. <i>Nature Communications</i> , 2021, 12, 1950.	5.8	22
8	Structural basis of malaria parasite phenylalanine tRNA-synthetase inhibition by bicyclic azetidines. <i>Nature Communications</i> , 2021, 12, 343.	5.8	19
9	Bicyclic azetidines kill the diarrheal pathogen <i>Cryptosporidium</i> in mice by inhibiting parasite phenylalanyl-tRNA synthetase. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	45
10	An Activity-Guided Map of Electrophile-Cysteine Interactions in Primary Human T Cells. <i>Cell</i> , 2020, 182, 1009-1026.e29.	13.5	194
11	Elicitation of Cluster A and Co-Receptor Binding Site Antibodies Are Required to Eliminate HIV-1 Infected Cells. <i>Microorganisms</i> , 2020, 8, 710.	1.6	7
12	Ligand-Enabled ^{13}C -Methylene $\text{C}(\text{sp}^3)\text{-}^1\text{H}$ Arylation of Masked Aliphatic Alcohols. <i>Angewandte Chemie</i> , 2020, 132, 7857-7861.	1.6	14
13	Ligand-Enabled ^{13}C -Methylene $\text{C}(\text{sp}^3)\text{-}^1\text{H}$ Arylation of Masked Aliphatic Alcohols. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7783-7787.	7.2	45
14	Development of an Effective Scalable Enantioselective Synthesis of the HIV-1 Entry Inhibitor BNM-III-170 as the Bis-trifluoroacetate Salt. <i>Organic Process Research and Development</i> , 2019, 23, 2464-2469.	1.3	21
15	Strain-Dependent Activation and Inhibition of Human Immunodeficiency Virus Entry by a Specific PF-68742 Stereoisomer. <i>Journal of Virology</i> , 2019, 93, .	1.5	1
16	Modular, stereocontrolled $\text{C}(\text{sp}^2)\text{-}^1\text{H}/\text{C}(\text{sp}^2)\text{-}^{13}\text{C}$ activation of alkyl carboxylic acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8721-8727.	3.3	39
17	An Asymmetric Opening of HIV-1 Envelope Mediates Antibody-Dependent Cellular Cytotoxicity. <i>Cell Host and Microbe</i> , 2019, 25, 578-587.e5.	5.1	93
18	A Small-Molecule CD4-Mimetic Compound Protects Bone Marrow-Liver-Thymus Humanized Mice From HIV-1 Infection. <i>Journal of Infectious Diseases</i> , 2018, 218, 471-475.	1.9	22

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19	SOSIP Changes Affect Human Immunodeficiency Virus Type 1 Envelope Glycoprotein Conformation and CD4 Engagement. <i>Journal of Virology</i> , 2018, 92, .	1.5	24
20	Synergistic Effects of Stereochemistry and Appendages on the Performance Diversity of a Collection of Synthetic Compounds. <i>Journal of the American Chemical Society</i> , 2018, 140, 11784-11790.	6.6	47
21	A CD4-mimetic compound enhances vaccine efficacy against stringent immunodeficiency virus challenge. <i>Nature Communications</i> , 2018, 9, 2363.	5.8	46
22	Activation and Inactivation of Primary Human Immunodeficiency Virus Envelope Glycoprotein Trimers by CD4-Mimetic Compounds. <i>Journal of Virology</i> , 2017, 91, .	1.5	42
23	BST-2 Expression Modulates Small CD4-Mimetic Sensitization of HIV-1-Infected Cells to Antibody-Dependent Cellular Cytotoxicity. <i>Journal of Virology</i> , 2017, 91, .	1.5	40
24	Residues in the gp41 Ectodomain Regulate HIV-1 Envelope Glycoprotein Conformational Transitions Induced by gp120-Directed Inhibitors. <i>Journal of Virology</i> , 2017, 91, .	1.5	53
25	Synthesis of a Bicyclic Azetidone with In Vivo Antimalarial Activity Enabled by Stereospecific, Directed C(sp ³)-H Arylation. <i>Journal of the American Chemical Society</i> , 2017, 139, 11300-11306.	6.6	104
26	Stereospecific Palladium-Catalyzed C-H Arylation of Pyroglutamic Acid Derivatives at the C3 Position Enabled by 8-Aminoquinoline as a Directing Group. <i>Organic Letters</i> , 2017, 19, 4424-4427.	2.4	38
27	Short Communication: Small-Molecule CD4 Mimetics Sensitize HIV-1-Infected Cells to Antibody-Dependent Cellular Cytotoxicity by Antibodies Elicited by Multiple Envelope Glycoprotein Immunogens in Nonhuman Primates. <i>AIDS Research and Human Retroviruses</i> , 2017, 33, 428-431.	0.5	26
28	Type II Anion Relay Chemistry: Exploiting Bifunctional Weinreb Amide Linchpins for the One-Pot Synthesis of Differentiated 1,3-Diketones, Pyrans, and Spiroketal. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 232-235.	7.2	26
29	Small CD4 Mimetics Prevent HIV-1 Uninfected Bystander CD4 + T Cell Killing Mediated by Antibody-dependent Cell-mediated Cytotoxicity. <i>EBioMedicine</i> , 2016, 3, 122-134.	2.7	67
30	Co-receptor Binding Site Antibodies Enable CD4-Mimetics to Expose Conserved Anti-cluster A ADCC Epitopes on HIV-1 Envelope Glycoproteins. <i>EBioMedicine</i> , 2016, 12, 208-218.	2.7	65
31	Computational Evaluation of HIV-1 gp120 Conformations of Soluble Trimeric gp140 Structures as Targets for de Novo Docking of First- and Second-Generation Small-Molecule CD4 Mimics. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 2069-2079.	2.5	9
32	Release of gp120 Restraints Leads to an Entry-Competent Intermediate State of the HIV-1 Envelope Glycoproteins. <i>MBio</i> , 2016, 7, .	1.8	131
33	Small-Molecule CD4-Mimics: Structure-Based Optimization of HIV-1 Entry Inhibition. <i>ACS Medicinal Chemistry Letters</i> , 2016, 7, 330-334.	1.3	86
34	Design, Synthesis, and Validation of an Effective, Reusable Silicon-Based Transfer Agent for Room-Temperature Pd-Catalyzed Cross-Coupling Reactions of Aryl and Heteroaryl Chlorides with Readily Available Aryl Lithium Reagents. <i>Journal of the American Chemical Society</i> , 2016, 138, 1836-1839.	6.6	38
35	Antibodies Elicited by Multiple Envelope Glycoprotein Immunogens in Primates Neutralize Primary Human Immunodeficiency Viruses (HIV-1) Sensitized by CD4-Mimetic Compounds. <i>Journal of Virology</i> , 2016, 90, 5031-5046.	1.5	38
36	An Effective Bifunctional Aldehyde Linchpin for Type II Anion Relay Chemistry: Development and Application to the Synthesis of a C16-C29 Fragment of Rhizopodin. <i>Organic Letters</i> , 2015, 17, 6242-6245.	2.4	13

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37	A Unified Synthetic Strategy to the Cryptocarya Family of Natural Products Exploiting Anion Relay Chemistry (ARC). <i>Organic Letters</i> , 2013, 15, 2282-2285.	2.4	49