# Wei-Chieh Cheng

List of Publications by Year
in descending order

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|---|---|---|---|
| 49 papers | 1,824 citations | 361296 20 h-index | 265120 42 g-index |
| 53 all docs | 53 docs citations | 53 times ranked | 1696 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Harnessing natural-product-inspired combinatorial chemistry and computation-guided synthesis to developN-glycan modulators as anticancer agents. Chemical Science, 2022, 13, 6233-6243. | 3.7 | 8 |
| 2 | Synthesis of Nitroneâ€derived Pyrrolidine Scaffolds and Their Combinatorial Libraries to Develop Selective Î±â€Lâ€Rhamnosidase Inhibitors. Chemistry - an Asian Journal, 2022, , . | 1.7 | 1 |
| 3 | Versatile Azido-Functionalized Carbon Dots for Cancer Cell Imaging. ACS Applied Nano Materials, 2022, 5, 12374-12379. | 2.4 | 0 |
| 4 | Harnessing Fluorescent Moenomycin A Antibiotics for Bacterial Cell Wall Imaging Studies. ChemBioChem, 2021, 22, 3462-3468. | 1.3 | 1 |
| 5 | Synthesis and Evaluation of Diverse N â€Substituted Disaccharide Dipeptides for Human NOD2 Stimulation Activity. Chemistry - an Asian Journal, 2021, , . | 1.7 | 0 |
| 6 | Further Insights on Structural Modifications of Muramyl Dipeptides to Study the Human NOD2 Stimulating Activity. Chemistry - an Asian Journal, 2020, 15, 3836-3844. | 1.7 | 11 |
| 7 | Rapid Synthesis of a Natural Product-Inspired Uridine Containing Library. ACS Combinatorial Science, 2020, 22, 600-607. | 3.8 | 2 |
| 8 | Divergent Synthesis of Bicyclic Iminosugars: Preparation of (â^')â€Swainsonineâ€Based Alkaloids and Their Inhibition Study towards Î±â€Human Mannosidases. Asian Journal of Organic Chemistry, 2019, 8, 2233-2242. | 1.3 | 7 |
| 9 | A combinatorial approach towards the synthesis of non-hydrolysable triazoleâ€“iduronic acid hybrid inhibitors of human Î±-<scp>l</scp>-iduronidase: discovery of enzyme stabilizers for the potential treatment of MPSI. Chemical Communications, 2018, 54, 2647-2650. | 2.2 | 11 |
| 10 | Affinity-Based Screen for Inhibitors of Bacterial Transglycosylase. Journal of the American Chemical Society, 2018, 140, 2752-2755. | 6.6 | 24 |
| 11 | Synthesis of (3 S ,4 S ,5 S )-trihydroxylpiperidine derivatives as enzyme stabilizers to improve therapeutic enzyme activity in Fabry patient cell lines. European Journal of Medicinal Chemistry, 2018, 144, 626-634. | 2.6 | 6 |
| 12 | Effect of the lipid II sugar moiety on bacterial transglycosylase: the 4-hydroxy epimer of lipid II is a TGase inhibitor. Chemical Communications, 2017, 53, 771-774. | 2.2 | 7 |
| 13 | Rapid preparation of (3R,4S,5R) polyhydroxylated pyrrolidine-based libraries to discover a pharmacological chaperone for treatment of Fabry disease. European Journal of Medicinal Chemistry, 2017, 126, 1-6. | 2.6 | 13 |
| 14 | A concise approach to the synthesis of the uniqueN-mannosyl<scp>d</scp>-Î²-hydroxyenduracididine moiety in the mannopeptimycin series of natural products. Organic and Biomolecular Chemistry, 2016, 14, 4054-4060. | 1.5 | 6 |
| 15 | Design and Synthesis of Orthogonally Protected d- and l-Î²-Hydroxyenduracididines from d-lyxono-1,4-Lactone. Organic Letters, 2016, 18, 5216-5219. | 2.4 | 1 |
| 16 | Bioevaluation of sixteen ADMDP stereoisomers toward alpha-galactosidase A: Development of a new pharmacological chaperone for the treatment of Fabry disease and potential enhancement of enzyme replacement therapy efficiency. European Journal of Medicinal Chemistry, 2016, 123, 14-20. | 2.6 | 15 |
| 17 | Structural Investigation of Parkâ€™s Nucleotide on Bacterial Translocase MraY: Discovery of Unexpected MraY Inhibitors. Scientific Reports, 2016, 6, 31579. | 1.6 | 13 |
| 18 | Synthesis of Diverse Nâ€Substituted Muramyl Dipeptide Derivatives and Their Use in a Study of Human NOD2 Stimulation Activity. Chemistry - A European Journal, 2015, 21, 11984-11988. | 1.7 | 19 |

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|---|---|---|---|
| 19 | Synthesis of 1â€Câ€Glycosideâ€Linked Lipidâ€...II Analogues Toward Bacterial Transglycosylase Inhibition. Chemistry - A European Journal, 2015, 21, 7511-7519. | 1.7 | 12 |
| 20 | Expeditious Synthesis of Enantiopure, Orthogonally Protected Bisâ€Î±â€Amino Acids (OPBAAs) and their Use in a Study of Nod1 Stimulation. Chemistry - an Asian Journal, 2015, 10, 474-482. | 1.7 | 6 |
| 21 | Carbohydrate scaffolds as glycosyltransferase inhibitors with in vivo antibacterial activity. Nature Communications, 2015, 6, 7719. | 5.8 | 34 |
| 22 | Synthesis and Inhibition Study of Bicyclic Iminosugarâ€Based Alkaloids, Scaffolds, and Libraries towards Glucosidase. Israel Journal of Chemistry, 2015, 55, 403-411. | 1.0 | 17 |
| 23 | Synthesis of novel polyhydroxylated pyrrolidineâ€“triazole/-isoxazole hybrid molecules. Organic and Biomolecular Chemistry, 2015, 13, 2100-2107. | 1.5 | 14 |
| 24 | Rapid Preparation of Mycobacterium Nâ€Glycolyl Lipid I and Lipid II Derivatives: A Biocatalytic Approach. Chemistry - A European Journal, 2013, 19, 834-838. | 1.7 | 17 |
| 25 | New Continuous Fluorometric Assay for Bacterial Transglycosylase Using FÃ¶rster Resonance Energy Transfer. Journal of the American Chemical Society, 2013, 135, 17078-17089. | 6.6 | 40 |
| 26 | Rapid modifications of N-substitution in iminosugars: Development of new Î²-glucocerebrosidase inhibitors and pharmacological chaperones for Gaucher disease. Bioorganic and Medicinal Chemistry, 2013, 21, 5021-5028. | 1.4 | 26 |
| 27 | Solid-Phase Synthesis of Diverse Spiroisoxazolinodiketopiperazines. ACS Combinatorial Science, 2013, 15, 425-434. | 3.8 | 9 |
| 28 | From Natural Productâ€Inspired Pyrrolidine Scaffolds to the Development of New Human Golgi Î±â€Mannosidase II Inhibitors. Chemistry - an Asian Journal, 2013, 8, 2600-2604. | 1.7 | 27 |
| 29 | Crystal structure of Staphylococcus aureus transglycosylase in complex with a lipid II analog and elucidation of peptidoglycan synthesis mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6496-6501. | 3.3 | 87 |
| 30 | Effect of the Peptide Moiety of Lipidâ€...II on Bacterial Transglycosylase. Angewandte Chemie - International Edition, 2012, 51, 10123-10126. | 7.2 | 26 |
| 31 | One-pot synthesis of phosphate diesters and phosphonate monoesters via a combination of microwave-CCl3CNâ€“pyridine coupling conditions. Tetrahedron Letters, 2012, 53, 243-246. | 0.7 | 8 |
| 32 | A New Synthetic Approach toward Bacterial Transglycosylase Substrates, Lipid II and Lipid IV. Organic Letters, 2011, 13, 4600-4603. | 2.4 | 43 |
| 33 | Total Synthesis of Polyprenyl N-Glycolyl Lipid II as a Mycobacterial Transglycosylase Substrate. Organic Letters, 2011, 13, 5306-5309. | 2.4 | 23 |
| 34 | Parallel synthesis of natural product-like polyhydroxylated pyrrolidine and piperidine alkaloids. Molecular Diversity, 2011, 15, 203-214. | 2.1 | 26 |
| 35 | Synthesis and Evaluation of a New Fluorescent Transglycosylase Substrate: Lipid II-Based Molecule Possessing a Dansyl-C20 Polyprenyl Moiety. Organic Letters, 2010, 12, 1608-1611. | 2.4 | 49 |
| 36 | Straightforward Synthesis of Diverse 1â€Deoxyazapyranosides via Stereocontrolled Nucleophilic Additions to Sixâ€Membered Cyclic Nitrones. European Journal of Organic Chemistry, 2010, 2010, 5555-5559. | 1.2 | 34 |

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|---|---|---|---|
| 37 | Combinatorial approach toward synthesis of small molecule libraries as bacterial transglycosylase inhibitors. Organic and Biomolecular Chemistry, 2010, 8, 2586. | 1.5 | 38 |
| 38 | Crystal structure of the membrane-bound bifunctional transglycosylase PBP1b from Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8824-8829. | 3.3 | 180 |
| 39 | A convenient approach toward the synthesis of enantiopure isomers of DMDP and ADMDP. Tetrahedron, 2009, 65, 93-100. | 1.0 | 105 |
| 40 | Solution-Phase Parallel Synthesis of Novel Spirooxazolinoisoxazolines. ACS Combinatorial Science, 2009, 11, 281-287. | 3.3 | 16 |
| 41 | Structural establishment of polygalatenosides A and B by total synthesis. Tetrahedron Letters, 2008, 49, 2895-2898. | 0.7 | 13 |
| 42 | Synthesis and biological evaluation of a 2-aryl polyhydroxylated pyrrolidine alkaloid-based library. Bioorganic and Medicinal Chemistry, 2008, 16, 10198-10204. | 1.4 | 66 |
| 43 | Traceless sulfone linker cleavage triggered by ozonolysis: solid-phase synthesis of diverse Î±-Î²-unsaturated carbonyl compounds. Tetrahedron Letters, 2008, 49, 543-547. | 0.7 | 18 |
| 44 | Solution-phase parallel synthesis of highly diverse spiroisoxazolinohydantoins. Tetrahedron Letters, 2008, 49, 1008-1011. | 0.7 | 19 |
| 45 | Solid-Phase Organic Synthesis of Polyisoprenoid Alcohols with Traceless Sulfone Linker. Journal of Organic Chemistry, 2008, 73, 7197-7203. | 1.7 | 27 |
| 46 | Domain requirement of moenomycin binding to bifunctional transglycosylases and development of high-throughput discovery of antibiotics. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 431-436. | 3.3 | 66 |
| 47 | Novel Five-Membered Iminocyclitol Derivatives as Selective and Potent Glycosidase Inhibitors: New Structures for Antivirals and Osteoarthritis. ChemBioChem, 2006, 7, 165-173. | 1.3 | 99 |
| 48 | Rapid Discovery of Potent Sulfotransferase Inhibitors by Diversity-Oriented Reaction in Microplates Followed by in situ Screening. ChemBioChem, 2004, 5, 811-819. | 1.3 | 33 |
| 49 | Nonlinear partial differential equations and applications: Chemical chaperones increase the cellular activity of N370S Â-glucosidase: A therapeutic strategy for Gaucher disease. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15428-15433. | 3.3 | 495 |