

# Bradford Sullivan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5995057/publications.pdf>

Version: 2024-02-01

21  
papers

604  
citations

516710

16  
h-index

713466

21  
g-index

22  
all docs

22  
docs citations

22  
times ranked

680  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Symmetry-Based Design for the Chemoenzymatic Synthesis of Oseltamivir (Tamiflu) from Ethyl Benzoate. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4229-4231.  | 13.8 | 85        |
| 2  | Several Generations of Chemoenzymatic Synthesis of Oseltamivir (Tamiflu): Evolution of Strategy, Quest for a Process-Quality Synthesis, and Evaluation of Efficiency Metrics. <i>Journal of Organic Chemistry</i> , 2011, 76, 10050-10067.  | 3.2  | 54        |
| 3  | Biocatalytic Reductions of Baylis-Hillman Adducts. <i>ACS Catalysis</i> , 2011, 1, 989-993.   | 11.2 | 47        |
| 4  | X-ray Crystallography Reveals How Subtle Changes Control the Orientation of Substrate Binding in an Alkene Reductase. <i>ACS Catalysis</i> , 2013, 3, 2376-2390.  | 11.2 | 43        |
| 5  | Investigation of steric and functionality limits in the enzymatic dihydroxylation of benzoate esters. Versatile intermediates for the synthesis of pseudo-sugars, amino cyclitols, and bicyclic ring systems. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2619.          | 2.8  | 36        |
| 6  | Residues Controlling Facial Selectivity in an Alkene Reductase and Semirational Alterations to Create Stereocomplementary Variants. <i>ACS Catalysis</i> , 2014, 4, 2307-2318.  | 11.2 | 36        |
| 7  | Formal total synthesis of (−)- and (+)-balanol: two complementary enantiodivergent routes from vinyloxiranes and vinylaziridines. <i>Tetrahedron</i> , 2009, 65, 212-220.   | 1.9  | 33        |
| 8  | Library construction and evaluation for site saturation mutagenesis. <i>Enzyme and Microbial Technology</i> , 2013, 53, 70-77.  | 3.2  | 33        |
| 9  | Synthesis and Characterization of Micelle-Forming PEG-Poly(Amino Acid) Copolymers with Iron-Hydroxamate Cross-Linkable Blocks for Encapsulation and Release of Hydrophobic Drugs. <i>Biomacromolecules</i> , 2017, 18, 1874-1884.   | 5.4  | 32        |
| 10 | Structural and Catalytic Characterization of <i>Pichia stipitis</i> OYE 2.6, a Useful Biocatalyst for Asymmetric Alkene Reductions. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 1949-1960.   | 4.3  | 31        |
| 11 | Chemoenzymatic formal synthesis of (−)-balanol. Provision of optical data for an often-reported intermediate. <i>Tetrahedron Letters</i> , 2008, 49, 5211-5213.   | 1.4  | 21        |
| 12 | Synthesis and facile end-group quantification of functionalized PEG azides. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2888-2895.   | 2.3  | 19        |
| 13 | Enhancing the heat stability and kinetic parameters of the maize endosperm ADP-glucose pyrophosphorylase using iterative saturation mutagenesis. <i>Archives of Biochemistry and Biophysics</i> , 2015, 568, 28-37.   | 3.0  | 18        |
| 14 | Large-scale synthesis of L-amino acid-N-carboxyanhydrides. <i>Synthetic Communications</i> , 2017, 47, 53-61.   | 2.1  | 18        |
| 15 | Chiral Version of the Burgess Reagent and Its Reactions with Oxiranes: Application to the Formal Enantiodivergent Synthesis of Balanol. <i>Journal of Natural Products</i> , 2008, 71, 346-350.   | 3.0  | 17        |
| 16 | Synthesis of heterobifunctional polyethylene glycols: Polymerization from functional initiators. <i>Polymer</i> , 2016, 105, 72-78.   | 3.8  | 16        |
| 17 | Imaging the delivery of drug-loaded, iron-stabilized micelles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1353-1362.  | 3.3  | 16        |
| 18 | New Options for the Reactivity of the Burgess Reagent with Epoxides in Both Racemic and Chiral Auxiliary Modes – Structural and Mechanistic Revisions, Computational Studies, and Application to Synthesis. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 2806-2819. | 2.4  | 11        |

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|----|--|-----|-----------|
| 19 | Pichia stipitis OYE 2.6 variants with improved catalytic efficiencies from site-saturation mutagenesis libraries. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 5628-5632. | 3.0 | 11        |
| 20 | Stabilized Polymer Micelles for the Development of IT-147, an Epothilone D Drug-Loaded Formulation. <i>Journal of Drug Delivery</i> , 2016, 2016, 1-12.                            | 2.5 | 6         |
| 21 | Chiral Version of the Burgess Reagent and its Reactions with Epoxides. <i>Synlett</i> , 2006, 2006, 0445-0449.   | 1.8 | 0         |