

# Jesper Brask

## List of Publications by Year in descending order

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43  
papers

1,841  
citations

279701

23  
h-index

265120

42  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2286  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzymatic biodiesel production: Technical and economical considerations. <i>European Journal of Lipid Science and Technology</i> , 2008, 110, 692-700.	1.0	209
2	Immobilization of laccase on epoxy-functionalized silica and its application in biodegradation of phenolic compounds. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 443-447.	3.6	118
3	Enzymatic production of biodiesel using lipases immobilized on silica nanoparticles as highly reusable biocatalysts: effect of water, t-butanol and blue silica gel contents. <i>Renewable Energy</i> , 2016, 91, 196-206.	4.3	113
4	Fmoc Solid-Phase Synthesis of Peptide Thioesters by Masking as Trithioortho Esters. <i>Organic Letters</i> , 2003, 5, 2951-2953.	2.4	102
5	Backbone Amide Linker in Solid-Phase Synthesis. <i>Chemical Reviews</i> , 2009, 109, 2092-2118.	23.0	101
6	Understanding the Plasticity of the $\beta$ -Hydrolase Fold: Lid Swapping on the <i>Candida antarctica</i> Lipase B Results in Chimeras with Interesting Biocatalytic Properties. <i>ChemBioChem</i> , 2009, 10, 520-527.	1.3	98
7	Lipases for use in industrial biocatalysis: Specificity of selected structural groups of lipases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 65, 18-23.	1.8	93
8	Preparation of highly reusable biocatalysts by immobilization of lipases on epoxy-functionalized silica for production of biodiesel from canola oil. <i>Biochemical Engineering Journal</i> , 2015, 101, 23-31.	1.8	80
9	Softening of POPC membranes by magainin. <i>Biophysical Chemistry</i> , 2008, 137, 7-12.	1.5	73
10	In situ visualization and effect of glycerol in lipase-catalyzed ethanolysis of rapeseed oil. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 72, 213-219.	1.8	67
11	Carbohydrates in peptide and protein design. <i>Biopolymers</i> , 2005, 80, 747-761.	1.2	66
12	Analysis of biodiesel conversion using thin layer chromatography and nonlinear calibration curves. <i>Journal of Chromatography A</i> , 2011, 1218, 2785-2792.	1.8	65
13	Comparative Biochemistry of Four Polyester (PET) Hydrolases**. <i>ChemBioChem</i> , 2021, 22, 1627-1637.	1.3	54
14	Carbopeptides: chemoselective ligation of peptide aldehydes to an aminoxy-functionalized D-galactose template. <i>Journal of Peptide Science</i> , 2000, 6, 290.	0.8	48
15	Improvement of biodiesel production from palm oil by co-immobilization of <i>Thermomyces lanuginosa</i> lipase and <i>Candida antarctica</i> lipase B: Optimization using response surface methodology. <i>International Journal of Biological Macromolecules</i> , 2021, 170, 490-502.	3.6	46
16	Monolayer Assemblies of a De Novo Designed 4- $\beta$ -Helix Bundle Carboprotein and Its Sulfur Anchor Fragment on Au(111) Surfaces Addressed by Voltammetry and In Situ Scanning Tunneling Microscopy. <i>Journal of the American Chemical Society</i> , 2003, 125, 94-104.	6.6	44
17	Carbopeptides: A 4- $\beta$ -helix bundle protein model assembled on a d-galactopyranoside template. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 697-700.	1.0	42
18	Kinetic model of biodiesel production using immobilized lipase <i>Candida antarctica</i> lipase B. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 85-86, 156-168.	1.8	42

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19	Kinetic model of biodiesel production catalyzed by free liquid lipase from <i>Thermomyces lanuginosus</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 133, 55-64.	1.8	37
20	Effect of water, organic solvent and adsorbent contents on production of biodiesel fuel from canola oil catalyzed by various lipases immobilized on epoxy-functionalized silica as low cost biocatalyst. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 120, 93-99.	1.8	36
21	The Ortho Backbone Amide Linker (o-BAL) Is an Easily Prepared and Highly Acid-Labile Handle for Solid-Phase Synthesis. <i>ACS Combinatorial Science</i> , 2002, 4, 223-228.	3.3	34
22	Carbohydrates as templates for control of distance-geometry in de novo-designed proteins. <i>Cellular and Molecular Life Sciences</i> , 2002, 59, 859-869.	2.4	26
23	Monosaccharide templates for de novo designed 4 $\alpha$ -helix bundle proteins: template effects in carboproteins. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 2247-2252.	1.5	25
24	Combining Enzymatic Esterification with Conventional Alkaline Transesterification in an Integrated Biodiesel Process. <i>Applied Biochemistry and Biotechnology</i> , 2011, 163, 918-927.	1.4	23
25	A carbohydrate-binding family 48 module enables feruloyl esterase action on polymeric arabinoxylan. <i>Journal of Biological Chemistry</i> , 2019, 294, 17339-17353.	1.6	21
26	Quantum Dot Lipase Biosensor Utilizing a Custom-Synthesized Peptidyl-Ester Substrate. <i>ACS Sensors</i> , 2020, 5, 1295-1304.	4.0	21
27	Synthesis of functionalized de novo designed 8 $\alpha$ -16 kDa model proteins towards metal ion-binding and esterase activity. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 2225-2233.	1.5	15
28	Novel xylanolytic triple domain enzyme targeted at feruloylated arabinoxylan degradation. <i>Enzyme and Microbial Technology</i> , 2019, 129, 109353.	1.6	15
29	The structure of the Alic GH13 $\alpha$ -amylase from <i>Alicyclobacillus</i> sp. reveals the accommodation of starch branching points in the $\alpha$ -amylase family. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019, 75, 1-7.	1.1	15
30	Enzymatic synthesis of oligosaccharides from branched cyclodextrins. <i>Carbohydrate Research</i> , 2005, 340, 1233-1237.	1.1	12
31	Synchrotron radiation circular dichroism spectroscopy applied to metmyoglobin and a 4 $\alpha$ -helix bundle carboprotein. <i>Biopolymers</i> , 2005, 78, 46-52.	1.2	11
32	Enzymatic Synthesis of Estolides from Castor Oil. <i>Catalysts</i> , 2020, 10, 835.	1.6	11
33	Use of high $\alpha$ -gradient magnetic fishing for reducing proteolysis during fermentation. <i>Biotechnology Journal</i> , 2012, 7, 909-918.	1.8	9
34	The structure of a calcium-dependent phosphoinositide-specific phospholipase C from <i>Pseudomonas</i> sp. 62186, the first from a Gram-negative bacterium. <i>Acta Crystallographica Section D: Structural Biology</i> , 2017, 73, 32-44.	1.1	9
35	Monolayers of a de novo designed 4 $\alpha$ -helix bundle carboprotein and partial structures on Au(111)-surfaces. <i>Bioelectrochemistry</i> , 2002, 56, 27-32.	2.4	7
36	Microtitration of Free Fatty Acids in Oil and Biodiesel Samples Using Absorbance and/or Fluorescence of Pyranine. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2012, 89, 2155-2163.	0.8	7

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37	Chemoenzymatic synthesis of fluorogenic phospholipids and evaluation in assays of phospholipases A, C and D. <i>Chemistry and Physics of Lipids</i> , 2017, 202, 49-54.	1.5	7
38	Farnesylated peptides in model membranes: a biophysical investigation. <i>European Biophysics Journal</i> , 2003, 33, 300-9.	1.2	5
39	Immobilized Enzymes in Organic Synthesis. , 0, , 365-380.		4
40	Synthesis and evaluation of fluorogenic triglycerides as lipase assay substrates. <i>Chemistry and Physics of Lipids</i> , 2016, 198, 72-79.	1.5	3
41	Development of an active site titration reagent for $\alpha$ -amylases. <i>Chemical Science</i> , 2021, 12, 683-687.	3.7	2
42	Synthesis of substrates for periodate-coupled assay of phospholipases C and sphingomyelinases. <i>Enzyme and Microbial Technology</i> , 2016, 91, 66-71.	1.6	1
43	Rapid and Simple Identification and Quantification of Components in Detergent Formulations by Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Surfactants and Detergents</i> , 2020, 23, 415-422.	1.0	1