Jeppe Kari

List of Publications by Year
in descending order

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Version: 2024-02-01

63 papers	2,028 citations	236925 25 h-index	265206 42 g-index
66 all docs	66 docs citations	66 times ranked	1540 citing authors

#	Article	IF	Citations
1	Sabatier Principle for Rationalizing Enzymatic Hydrolysis of a Synthetic Polyester. Jacs Au, 2022, 2, 1223-1231.	7.9	30
2	Virtual Bioprospecting of Interfacial Enzymes: Relating Sequence and Kinetics. ACS Catalysis, 2022, 12, 7427-7435.	11.2	11
3	A comparative biochemical investigation of the impeding effect of C1-oxidizing LPMOs on cellobiohydrolases. Journal of Biological Chemistry, 2021, 296, 100504.	3.4	11
4	Impact of Alginate Mannuronic-Guluronic Acid Contents and pH on Protein Binding Capacity and Complex Size. Biomacromolecules, 2021, 22, 649-660.	5.4	19
5	Computing Cellulase Kinetics with a Two-Domain Linear Interaction Energy Approach. ACS Omega, 2021, 6, 1547-1555.	3.5	7
6	Comparative Biochemistry of Four Polyester (PET) Hydrolases**. ChemBioChem, 2021, 22, 1627-1637.	2.6	54
7	Physical constraints and functional plasticity of cellulases. Nature Communications, 2021, 12, 3847.	12.8	21
8	Adsorption of enzymes with hydrolytic activity on polyethylene terephthalate. Enzyme and Microbial Technology, 2021, 152, 109937.	3.2	21
9	pH profiles of cellulases depend on the substrate and architecture of the binding region. Biotechnology and Bioengineering, 2020, 117, 382-391.	3.3	7
10	Substrate binding in the processive cellulase Cel7A: Transition state of complexation and roles of conserved tryptophan residues. Journal of Biological Chemistry, 2020, 295, 1454-1463.	3.4	14
11	Structural and biochemical characterization of a family 7 highly thermostable endoglucanase from the fungus <i>Rasamsonia emersonii</i>. FEBS Journal, 2020, 287, 2577-2596.	4.7	11
12	A suspension-based assay and comparative detection methods for characterization of polyethylene terephthalate hydrolases. Analytical Biochemistry, 2020, 607, 113873.	2.4	35
13	Activity of fungal Î²-glucosidases on cellulose. Biotechnology for Biofuels, 2020, 13, 121.	6.2	5
14	Removal of N-linked glycans in cellobiohydrolase Cel7A from Trichoderma reesei reveals higher activity and binding affinity on crystalline cellulose. Biotechnology for Biofuels, 2020, 13, 136.	6.2	15
15	Promoting and Impeding Effects of Lytic Polysaccharide Monooxygenases on Glycoside Hydrolase Activity. ACS Sustainable Chemistry and Engineering, 2020, 8, 14117-14126.	6.7	30
16	The synergy between LPMOs and cellulases in enzymatic saccharification of cellulose is both enzyme- and substrate-dependent. Biotechnology Letters, 2020, 42, 1975-1984.	2.2	63
17	Selective pressure on an interfacial enzyme: Functional roles of a highly conserved asparagine residue in a cellulase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140359.	2.3	4
18	A steady-state approach for inhibition of heterogeneous enzyme reactions. Biochemical Journal, 2020, 477, 1971-1982.	3.7	5

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19	Molecular recognition in the product site of cellobiohydrolase Cel7A regulates processive step length. Biochemical Journal, 2020, 477, 99-110.	3.7	4
20	A biochemical comparison of fungal GH6 cellobiohydrolases. Biochemical Journal, 2019, 476, 2157-2172.	3.7	7
21	A practical approach to steady-state kinetic analysis of cellulases acting on their natural insoluble substrate. Analytical Biochemistry, 2019, 586, 113411.	2.4	11
22	Functional analysis of chimeric TrCel6A enzymes with different carbohydrate binding modules. Protein Engineering, Design and Selection, 2019, 32, 401-409.	2.1	7
23	Systematic deletions in the cellobiohydrolase (CBH) Cel7A from the fungus Trichoderma reesei reveal flexible loops critical for CBH activity. Journal of Biological Chemistry, 2019, 294, 1807-1815.	3.4	40
24	Thermoactivation of a cellobiohydrolase. Biotechnology and Bioengineering, 2018, 115, 831-838.	3.3	13
25	Michaelisâ€"Menten equation for degradation of insoluble substrate. Mathematical Biosciences, 2018, 296, 93-97.	1.9	36
26	Sabatier Principle for Interfacial (Heterogeneous) Enzyme Catalysis. ACS Catalysis, 2018, 8, 11966-11972.	11.2	116
27	Rateâ€limiting step and substrate accessibility of cellobiohydrolase Cel6A from <i>TrichodermaÂreesei</i>. FEBS Journal, 2018, 285, 4482-4493.	4.7	23
28	Correlation of structure, function and protein dynamics in GH7 cellobiohydrolases from Trichoderma atroviride, T. reesei and T. harzianum. Biotechnology for Biofuels, 2018, 11, 5.	6.2	37
29	Isothermal Titration Calorimetry Study of Brineâ€"Oilâ€"Rock Interactions. Energy & Fuels, 2018, 32, 7338-7346.	5.1	12
30	Exoâ€exo synergy between Cel6A and Cel7A from <i>Hypocrea jecorina</i>: Role of carbohydrate binding module and the endoâ€lytic character of the enzymes. Biotechnology and Bioengineering, 2017, 114, 1639-1647.	3.3	24
31	An Inverse Michaelisâ€"Menten Approach for Interfacial Enzyme Kinetics. ACS Catalysis, 2017, 7, 4904-4914.	11.2	102
32	Anomeric Selectivity and Product Profile of a Processive Cellulase. Biochemistry, 2017, 56, 167-178.	2.5	10
33	Direct kinetic comparison of the two cellobiohydrolases Cel6A and Cel7A from Hypocrea jecorina. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 1739-1745.	2.3	15
34	A quenched-flow system for measuring heterogeneous enzyme kinetics with sub-second time resolution. Enzyme and Microbial Technology, 2017, 105, 45-50.	3.2	6
35	The influence of different linker modifications on the catalytic activity and cellulose affinity of cellobiohydrolase Cel7A from Hypocrea jecorina. Protein Engineering, Design and Selection, 2017, 30, 495-501.	2.1	19
36	Loop variants of the thermophile <i>Rasamsonia emersonii</i> Cel7A with improved activity against cellulose. Biotechnology and Bioengineering, 2017, 114, 53-62.	3.3	21

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37	Endo/exoâ€synergism of cellulases increases with substrate conversion. Biotechnology and Bioengineering, 2017, 114, 696-700.	3.3	16
38	Inter-domain Synergism Is Required for Efficient Feeding of Cellulose Chain into Active Site of Cellobiohydrolase Cel7A. Journal of Biological Chemistry, 2016, 291, 26013-26023.	3.4	31
39	Mechanism of product inhibition for cellobiohydrolase Cel7A during hydrolysis of insoluble cellulose. Biotechnology and Bioengineering, 2016, 113, 1178-1186.	3.3	16
40	Rate of Threading a Cellulose Chain into the Binding Tunnel of a Cellulase. Journal of Physical Chemistry B, 2016, 120, 5591-5600.	2.6	29
41	Interrelationships between cellulase activity and cellulose particle morphology. Cellulose, 2016, 23, 2349-2361.	4.9	8
42	Probing Substrate Interactions in the Active Tunnel of a Catalytically Deficient Cellobiohydrolase (Cel7). Journal of Biological Chemistry, 2015, 290, 2444-2454.	3.4	36
43	Free Energy Diagram for the Heterogeneous Enzymatic Hydrolysis of Glycosidic Bonds in Cellulose. Journal of Biological Chemistry, 2015, 290, 22203-22211.	3.4	29
44	Temperature Effects on Kinetic Parameters and Substrate Affinity of Cel7A Cellobiohydrolases. Journal of Biological Chemistry, 2015, 290, 22193-22202.	3.4	53
45	Kinetics of Cellobiohydrolase (Cel7A) Variants with Lowered Substrate Affinity. Journal of Biological Chemistry, 2014, 289, 32459-32468.	3.4	58
46	A graphene screen-printed carbon electrode for real-time measurements of unoccupied active sites in a cellulase. Analytical Biochemistry, 2014, 447, 162-168.	2.4	19
47	Extending the hydrophobic cavity of Î²-cyclodextrin results in more negative heat capacity changes but reduced binding affinities. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2014, 78, 351-361.	1.6	19
48	A pyranose dehydrogenase-based biosensor for kinetic analysis of enzymatic hydrolysis of cellulose by cellulases. Enzyme and Microbial Technology, 2014, 58-59, 68-74.	3.2	19
49	Reversibility of Substrate Adsorption for the Cellulases Cel7A, Cel6A, and Cel7B from <i>Hypocrea jecorina</i>. Langmuir, 2014, 30, 12602-12609.	3.5	21
50	In Situ Stability of Substrate-Associated Cellulases Studied by DSC. Langmuir, 2014, 30, 7134-7142.	3.5	15
51	A steadyâ€state theory for processive cellulases. FEBS Journal, 2013, 280, 3952-3961.	4.7	50
52	Product inhibition of five Hypocrea jecorina cellulases. Enzyme and Microbial Technology, 2013, 52, 163-169.	3.2	85
53	Transient Kinetics and Rate-Limiting Steps for the Processive Cellobiohydrolase Cel7A: Effects of Substrate Structure and Carbohydrate Binding Domain. Biochemistry, 2013, 52, 8938-8948.	2.5	73
54	Pre-steady-state Kinetics for Hydrolysis of Insoluble Cellulose by Cellobiohydrolase Cel7A. Journal of Biological Chemistry, 2012, 287, 18451-18458.	3.4	100

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55	An amperometric enzyme biosensor for realâ€time measurements of cellobiohydrolase activity on insoluble cellulose. Biotechnology and Bioengineering, 2012, 109, 3199-3204.	3.3	40
56	Higher Order Inclusion Complexes and Secondary Interactions Studied by Global Analysis of Calorimetric Titrations. Analytical Chemistry, 2012, 84, 2305-2312.	6.5	27
57	Origin of Initial Burst in Activity for Trichoderma reesei endo-Glucanases Hydrolyzing Insoluble Cellulose. Journal of Biological Chemistry, 2012, 287, 1252-1260.	3.4	53
58	A kinetic model for the burst phase of processive cellulases. FEBS Journal, 2011, 278, 1547-1560.	4.7	86
59	Kinetics of Enzymatic High-Solid Hydrolysis of Lignocellulosic Biomass Studied by Calorimetry. Applied Biochemistry and Biotechnology, 2011, 163, 626-635.	2.9	25
60	Xylan oligosaccharides and cellobiohydrolase I (TrCel7A) interaction and effect on activity. Biotechnology for Biofuels, 2011, 4, 45.	6.2	48
61	A comparative study of activity and apparent inhibition of fungal Î²â€glucosidases. Biotechnology and Bioengineering, 2010, 107, 943-952.	3.3	50
62	An enzymatic signal amplification system for calorimetric studies of cellobiohydrolases. Analytical Biochemistry, 2010, 404, 140-148.	2.4	27
63	Thermochemistry of the specific binding of C12 surfactants to bovine serum albumin. BBA - Proteins and Proteomics, 2000, 1479, 321-331.	2.1	127