

# Michael Hans-Peter Studer

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

2,159  
citations

471509

17  
h-index

414414

32  
g-index

33  
all docs

33  
docs citations

33  
times ranked

2893  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lignin content in natural <i>Populus</i> variants affects sugar release. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6300-6305.	7.1	515
2	Steam explosion pretreatment of softwood: the effect of the explosive decompression on enzymatic digestibility. Biotechnology for Biofuels, 2016, 9, 152.	6.2	183
3	Biochemical Conversion Processes of Lignocellulosic Biomass to Fuels and Chemicals – A Review. Chimia, 2015, 69, 572.	0.6	160
4	Consolidated bioprocessing of lignocellulose by a microbial consortium. Energy and Environmental Science, 2014, 7, 1446.	30.8	144
5	Lignin repolymerisation in spruce autohydrolysis pretreatment increases cellulase deactivation. Green Chemistry, 2015, 17, 3521-3532.	9.0	139
6	Chemical transformations of <i>Populus trichocarpa</i> during dilute acid pretreatment. RSC Advances, 2012, 2, 10925.	3.6	138
7	A heterogeneous microbial consortium producing short-chain fatty acids from lignocellulose. Science, 2020, 369, .	12.6	120
8	Consolidated bioprocessing of lignocellulosic biomass to lactic acid by a synthetic fungal–bacterial consortium. Biotechnology and Bioengineering, 2018, 115, 1207-1215.	3.3	92
9	HSQC (heteronuclear single quantum coherence) <sup>13</sup> C– <sup>1</sup> H correlation spectra of whole biomass in perdeuterated pyridinium chloride–DMSO system: An effective tool for evaluating pretreatment. Fuel, 2011, 90, 2836-2842.	6.4	91
10	The effect of liquid hot water pretreatment on the chemical–structural alteration and the reduced recalcitrance in poplar. Biotechnology for Biofuels, 2017, 10, 237.	6.2	88
11	Engineering of a high-throughput screening system to identify cellulosic biomass, pretreatments, and enzyme formulations that enhance sugar release. Biotechnology and Bioengineering, 2010, 105, 231-238.	3.3	84
12	The effect of bovine serum albumin on batch and continuous enzymatic cellulose hydrolysis mixed by stirring or shaking. Bioresource Technology, 2011, 102, 6295-6298.	9.6	56
13	Small-scale and automatable high-throughput compositional analysis of biomass. Biotechnology and Bioengineering, 2011, 108, 306-312.	3.3	51
14	Impacts of biofilms on the conversion of cellulose. Applied Microbiology and Biotechnology, 2020, 104, 5201-5212.	3.6	44
15	Engineering of ecological niches to create stable artificial consortia for complex biotransformations. Current Opinion in Biotechnology, 2020, 62, 129-136.	6.6	27
16	Application potential of a carbocation scavenger in autohydrolysis and dilute acid pretreatment to overcome high softwood recalcitrance. Biomass and Bioenergy, 2017, 105, 164-173.	5.7	22
17	Co-hydrolysis of hydrothermal and dilute acid pretreated populus slurries to support development of a high-throughput pretreatment system. Biotechnology for Biofuels, 2011, 4, 19.	6.2	20
18	Populus resequencing: towards genome-wide association studies. BMC Proceedings, 2011, 5, .	1.6	19

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19	Steam Explosion Pretreatment of Beechwood. Part 1: Comparison of the Enzymatic Hydrolysis of Washed Solids and Whole Pretreatment Slurry at Different Solid Loadings. <i>Energies</i> , 2020, 13, 3653.	3.1	17
20	Pilot-scale steam explosion pretreatment with 2-naphthol to overcome high softwood recalcitrance. <i>Biotechnology for Biofuels</i> , 2017, 10, 130.	6.2	16
21	A Multispecies Fungal Biofilm Approach to Enhance the Cellulolytic Efficiency of Membrane Reactors for Consolidated Bioprocessing of Plant Biomass. <i>Frontiers in Microbiology</i> , 2017, 8, 1930.	3.5	15
22	Two-stage steam explosion pretreatment of softwood with 2-naphthol as carbocation scavenger. <i>Biotechnology for Biofuels</i> , 2019, 12, 37.	6.2	15
23	A cellulolytic fungal biofilm enhances the consolidated bioconversion of cellulose to short chain fatty acids by the rumen microbiome. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3355-3365.	3.6	14
24	Steam Explosion Pretreatment of Beechwood. Part 2: Quantification of Cellulase Inhibitors and Their Effect on Avicel Hydrolysis. <i>Energies</i> , 2020, 13, 3638.	3.1	13
25	Enhanced simultaneous saccharification and fermentation of pretreated beech wood by in situ treatment with the white rot fungus <i>Irpex lacteus</i> in a membrane aerated biofilm reactor. <i>Bioresource Technology</i> , 2017, 237, 135-138.	9.6	12
26	The influence of the explosive decompression in steam-explosion pretreatment on the enzymatic digestibility of different biomasses. <i>Faraday Discussions</i> , 2017, 202, 269-280.	3.2	12
27	Catalytic valorization of the acetate fraction of biomass to aromatics and its integration into the carboxylate platform. <i>Green Chemistry</i> , 2019, 21, 2801-2809.	9.0	12
28	Techno-economic assessment of bioethanol production from lignocellulose by consortium-based consolidated bioprocessing at industrial scale. <i>New Biotechnology</i> , 2021, 65, 53-60.	4.4	12
29	Novel membrane bioreactor: Able to cope with fluctuating loads, poorly water soluble VOCs, and biomass accumulation. <i>Biotechnology and Bioengineering</i> , 2008, 99, 38-48.	3.3	10
30	Comparison of the Effectiveness of a Fluidized Sand Bath and a Steam Chamber for Reactor Heating. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 4932-4938.	3.7	6
31	Application of a slurry feeder to 1 and 3 stage continuous simultaneous saccharification and fermentation of dilute acid pretreated corn stover. <i>Bioresource Technology</i> , 2014, 170, 470-476.	9.6	6
32	Selectivity Control during the Single-Step Conversion of Aliphatic Carboxylic Acids to Linear Olefins. <i>ACS Catalysis</i> , 2018, 8, 10769-10773.	11.2	6