## Willie Nicol

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7721978/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Nitrogen management in nitrification-hydroponic systems by utilizing their pH characteristics. Environmental Technology and Innovation, 2022, 26, 102360.	3.0	3
2	Continuous Production of Fumaric Acid with Immobilised Rhizopus oryzae: The Role of pH and Urea Addition. Catalysts, 2022, 12, 82.	1.6	7
3	The Effect of pH, Metal Ions, and Insoluble Solids on the Production of Fumarate and Malate by Rhizopus delemar in the Presence of CaCO3. Catalysts, 2022, 12, 263.	1.6	2
4	Optimal Growth Conditions for Azolla pinnata R. Brown: Impacts of Light Intensity, Nitrogen Addition, pH Control, and Humidity. Plants, 2022, 11, 1048.	1.6	6
5	Rhizopus oryzae for Fumaric Acid Production: Optimising the Use of a Synthetic Lignocellulosic Hydrolysate. Fermentation, 2022, 8, 278.	1.4	3
6	Internal mass transfer considerations in biofilms of succinic acid producing Actinobacillus succinogenes. Chemical Engineering Journal, 2021, 407, 127220.	6.6	4
7	Fed-batch growth of Rhizopus oryzae: Eliminating ethanol formation by controlling glucose addition. Biochemical Engineering Journal, 2021, 169, 107961.	1.8	5
8	Identifying Energy Extraction Optimisation Strategies of Actinobacillus succinogenes. Catalysts, 2021, 11, 1016.	1.6	3
9	Diazotrophic Behaviour in a Non-Sterile Bioreactor: The Effect of O2-Availability. Processes, 2021, 9, 2039.	1.3	0
10	Effect of shear on morphology, viability and metabolic activity of succinic acid-producing Actinobacillus succinogenes biofilms. Bioprocess and Biosystems Engineering, 2020, 43, 1253-1263.	1.7	7
11	Fumarate production with Rhizopus oryzae: utilising the Crabtree effect to minimise ethanol by-product formation. Biotechnology for Biofuels, 2020, 13, 22.	6.2	17
12	Impact of metabolite accumulation on the structure, viability and development of succinic acid–producing biofilms of Actinobacillus succinogenes. Applied Microbiology and Biotechnology, 2019, 103, 6205-6215.	1.7	9
13	Improved continuous fumaric acid production with immobilised Rhizopus oryzae by implementation of a revised nitrogen control strategy. New Biotechnology, 2018, 44, 13-22.	2.4	17
14	Malic acid production through the whole-cell hydration of fumaric acid with immobilised Rhizopus oryzae. Biochemical Engineering Journal, 2018, 137, 152-161.	1.8	19
15	Fumaric acid fermentation with immobilised Rhizopus oryzae : Quantifying time-dependent variations in catabolic flux. Process Biochemistry, 2017, 56, 8-20.	1.8	19
16	Structure and cell viability analysis of Actinobacillus succinogenes biofilms as biocatalysts for succinic acid production. Biochemical Engineering Journal, 2017, 128, 134-140.	1.8	8
17	The effect of carbon dioxide availability on succinic acid production with biofilms of Actinobacillus succinogenes. Biochemical Engineering Journal, 2017, 117, 218-225.	1.8	30
18	The pentose phosphate pathway leads to enhanced succinic acid flux in biofilms of wild-type Actinobacillus succinogenes. Applied Microbiology and Biotechnology, 2016, 100, 9641-9652.	1.7	11

WILLIE NICOL

#	Article	IF	CITATIONS
19	Succinic acid production on xylose-enriched biorefinery streams by Actinobacillus succinogenes in batch fermentation. Biotechnology for Biofuels, 2016, 9, 28.	6.2	120
20	Continuous succinic acid production from xylose by Actinobacillus succinogenes. Bioprocess and Biosystems Engineering, 2016, 39, 233-244.	1.7	38
21	Continuous succinic acid production by Actinobacillus succinogenes on xylose-enriched hydrolysate. Biotechnology for Biofuels, 2015, 8, 181.	6.2	89
22	Interphase mass transfer of the high velocity bubbling fluidization regime. Chemical Engineering Research and Design, 2015, 93, 213-223.	2.7	3
23	Continuous succinic acid fermentation by Escherichia coli KJ122 with cell recycle. Process Biochemistry, 2015, 50, 2004-2011.	1.8	12
24	The influence of shear on the metabolite yield of Lactobacillus rhamnosus biofilms. New Biotechnology, 2014, 31, 460-467.	2.4	8
25	Axial Variation of Wetting Efficiency and Liquid–Solid Mass Transfer in Long Trickle Bed Columns. Industrial & Engineering Chemistry Research, 2014, 53, 494-497.	1.8	2
26	Succinic acid production with Actinobacillus succinogenes: rate and yield analysis of chemostat and biofilm cultures. Microbial Cell Factories, 2014, 13, 111.	1.9	52
27	Succinic acid-producing biofilms of Actinobacillus succinogenes: reproducibility, stability and productivity. Applied Microbiology and Biotechnology, 2014, 98, 7379-7386.	1.7	43
28	Continuous succinic acid production by Actinobacillus succinogenes in a biofilm reactor: Steady-state metabolic flux variation. Biochemical Engineering Journal, 2014, 85, 1-7.	1.8	50
29	Trickle flow liquid–solid mass transfer and wetting efficiency in small diameter columns. Canadian Journal of Chemical Engineering, 2013, 91, 441-447.	0.9	14
30	Continuous succinic acid fermentation by Actinobacillus succinogenes. Biochemical Engineering Journal, 2013, 73, 5-11.	1.8	65
31	Liquid–solid mass transfer distributions in trickle bed reactors. Chemical Engineering Journal, 2013, 230, 361-366.	6.6	8
32	Continuous and batch cultures of Escherichia coli KJ134 for succinic acid fermentation: metabolic flux distributions and production characteristics. Microbial Cell Factories, 2013, 12, 80.	1.9	35
33	Fast X-ray tomography for the quantification of the bubbling-, turbulent- and fast fluidization-flow regimes and void structures. Chemical Engineering Journal, 2013, 234, 437-447.	6.6	37
34	Fluidization of high-density particles: The influence of fines on reactor performance. Powder Technology, 2013, 245, 48-55.	2.1	13
35	Gas-Limited Hydrogenation of 1-Octene in a Fixed Bed: Upflow Versus Downflow. Industrial & Engineering Chemistry Research, 2011, 50, 10476-10479.	1.8	4
36	Two dimensional fluidised bed reactor: Performance of a novel multi-vortex distributor. Chemical Engineering Journal, 2011, 175, 484-493.	6.6	13

WILLIE NICOL

#	Article	IF	CITATIONS
37	Parallel hydrogenation for the quantification of wetting efficiency and liquid–solid mass transfer in a trickleâ€bed reactor. AICHE Journal, 2011, 57, 1310-1319.	1.8	16
38	Effectiveness Factors for Partially Wetted Catalysts. Industrial & Engineering Chemistry Research, 2010, 49, 8114-8124.	1.8	7
39	Entrainment behaviour of high-density Geldart A powders with different shapes. Powder Technology, 2009, 190, 297-303.	2.1	12
40	Trickle flow hydrodynamic multiplicity: Experimental observations and pore-scale capillary mechanism. Chemical Engineering Science, 2009, 64, 1267-1284.	1.9	12
41	The effect of hydrodynamic multiplicity on liquid phase trickle flow axial dispersion. Chemical Engineering Research and Design, 2009, 87, 677-683.	2.7	4
42	Solid phosphoric acid catalysts: The effect of free acid composition on selectivity and activity for 1-hexene dimerisation. Applied Catalysis A: General, 2009, 369, 83-89.	2.2	11
43	Multiplicity Behavior of Trickle Flow Liquidâ^'Solid Mass Transfer. Industrial & Engineering Chemistry Research, 2009, 48, 8387-8392.	1.8	8
44	Effect of hydrodynamic multiplicity on trickle bed reactor performance. AICHE Journal, 2008, 54, 249-257.	1.8	9
45	Kinetic model for the dimerisation of 1-hexene over a solid phosphoric acid catalyst. Applied Catalysis A: General, 2008, 340, 119-124.	2.2	11
46	Effect of Operating Pressure on the Extent of Hysteresis in a Trickle Bed Reactor. Industrial & Engineering Chemistry Research, 2008, 47, 7593-7599.	1.8	6
47	Trickle flow distribution and stability by X-ray radiography. Chemical Engineering Journal, 2007, 132, 47-59.	6.6	33
48	Extension of liquid-limited trickle-bed reactor modelling to incorporate channelling effects. Chemical Engineering Science, 2007, 62, 5543-5548.	1.9	5
49	Trickle Flow Multiplicity. Chemical Engineering Research and Design, 2007, 85, 1604-1610.	2.7	4
50	Three-dimensional analysis of trickle flow hydrodynamics: Computed tomography image acquisition and processing. Chemical Engineering Science, 2007, 62, 7233-7244.	1.9	12
51	Multiple hydrodynamic states in trickle flow: Quantifying the extent of pressure drop, liquid holdup and gas–liquid mass transfer variation. Chemical Engineering Science, 2006, 61, 7551-7562.	1.9	40
52	Particle wetting distribution in trickle-bed reactors. AICHE Journal, 2006, 52, 3532-3542.	1.8	33
53	Characterization of Multiple Flow Morphologies within the Trickle Flow Regime. Industrial & Engineering Chemistry Research, 2005, 44, 9446-9450.	1.8	19
54	The rate inhibiting effect of water as a product on reactions catalysed by cation exchange resins: formation of mesityl oxide from acetone as case study. Applied Catalysis A: General, 2004, 277, 219-225.	2.2	26

WILLIE NICOL

#	Article	IF	CITATIONS
55	One-step methyl isobutyl ketone synthesis from acetone and hydrogen using Amberlyst® CH28. Chemical Engineering and Processing: Process Intensification, 2004, 43, 1539-1545.	1.8	29
56	Acetone condensation on a cation exchange resin catalyst: the pseudo equilibrium phenomenon. Chemical Engineering Science, 2004, 59, 5545-5550.	1.9	11
57	Nature of Residual Liquid Holdup in Packed Beds of Spherical Particles. Industrial & Engineering Chemistry Research, 2004, 43, 8363-8368.	1.8	19
58	Comparing Catalytic Distillation to Separate Reaction and Distillation for the Production of Diacetone Alcohol. Chemical Engineering Research and Design, 2003, 81, 1026-1032.	2.7	9
59	The cost of crossing reaction equilibrium in a system that is overall adiabatic. Computers and Chemical Engineering, 2002, 26, 803-809.	2.0	5
60	The attainable region and process synthesis: reaction systems with external cooling and heating. Chemical Engineering Science, 2001, 56, 173-191.	1.9	16