

Andreas Jupke

List of Publications by Year in descending order

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70
papers

1,015
citations

471509

17
h-index

501196

28
g-index

71
all docs

71
docs citations

71
times ranked

897
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In situ</i> reactive extraction with oleic acid for process intensification in amine transaminase catalyzed reactions. <i>Green Chemistry</i> , 2022, 24, 295-304.	9.0	9
2	Yeast-based production and in situ purification of acetaldehyde. <i>Bioprocess and Biosystems Engineering</i> , 2022, 45, 761-769.	3.4	3
3	Model-Based Simultaneous Solvent Screening and Column Design Based on a Holistic Consideration of Extraction and Solvent Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 3374-3382.	3.7	5
4	Enzymatic Cascade in a Simultaneous, One-Pot Approach with <i>In Situ</i> Product Separation for the Asymmetric Production of (4 <i>S</i> ,5 <i>S</i>)-Octanediol. <i>Organic Process Research and Development</i> , 2022, 26, 2038-2045.	2.7	9
5	Electrochemical membrane-assisted pH-swing extraction and back-extraction of lactic acid. <i>Separation and Purification Technology</i> , 2022, 289, 120702.	7.9	8
6	Extracorporeal Hyperoxygenation Therapy (EHT) for Carbon Monoxide Poisoning: In-Vitro Proof of Principle. <i>Membranes</i> , 2022, 12, 56.	3.0	3
7	Toward the Sustainable Production of the Active Pharmaceutical Ingredient Metaraminol. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5117-5128.	6.7	8
8	Investigation of the elution behavior of dissociating itaconic acid on a hydrophobic polymeric adsorbent using in-line Raman spectroscopy. <i>Journal of Chromatography A</i> , 2022, 1675, 463140.	3.7	3
9	Comparison of the impact of anion and cation selection onto cation exchange chromatography of model proteins. <i>Journal of Chromatography A</i> , 2022, 1673, 463054.	3.7	2
10	Porous organic frameworks for preferable adsorption of trans-1,2-diols over cis-1,2-diols. <i>Applied Materials Today</i> , 2022, 28, 101523.	4.3	1
11	Automated measurement of pH-dependent solid-liquid equilibria of itaconic acid and protocatechuic acid. <i>Fluid Phase Equilibria</i> , 2021, 532, 112893.	2.5	8
12	Droplet Size Distributions of Liquid-Liquid Dispersions in Centrifugal Pumps. <i>Chemie-Ingenieur-Technik</i> , 2021, 93, 129-142.	0.8	8
13	Extractive <i>in situ</i> product removal for the application of naturally produced L-alanine as an amine donor in enzymatic metaraminol production. <i>Green Chemistry</i> , 2021, 23, 4892-4901.	9.0	12
14	Selective lignin fractionation using CO ₂ -expanded 2-methyltetrahydrofuran (2-MTHF). <i>Green Chemistry</i> , 2021, 23, 6330-6336.	9.0	6
15	Molecular Weight Distribution in Di Metal Cyanide Catalyzed Polymerization 1: Fundamental Distribution for Length Dependent Propagation Constant and Segments. <i>Macromolecular Theory and Simulations</i> , 2021, 30, 2100012.	1.4	5
16	Electrochemical pH-T-Swing Separation of Itaconic Acid for Zero Salt Waste Downstream Processing. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9336-9347.	6.7	16
17	Metabolic and process engineering for microbial production of protocatechuate with <i>Corynebacterium glutamicum</i> . <i>Biotechnology and Bioengineering</i> , 2021, 118, 4414-4427.	3.3	10
18	Molecular Weight Distribution in Di Metal Cyanide Catalyzed Polymerization 2: Numerical Simulation of Chain Activation/Deactivation and Diffusion Effects. <i>Macromolecular Theory and Simulations</i> , 2021, 30, 2100013.	1.4	6

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19	Prediction of Flooding in Packed Liquid-Liquid and High-Pressure Extraction Columns Using a Gaussian Process. <i>Chemie-Ingenieur-Technik</i> , 2021, 93, 1907-1916.	0.8	4
20	MIXed plastics biodegradation and UPcycling using microbial communities: EU Horizon 2020 project MIX-UP started January 2020. <i>Environmental Sciences Europe</i> , 2021, 33, 99.	5.5	33
21	Determination of the Metastable Zone Width and Nucleation Parameters of Succinic Acid for Electrochemically Induced Crystallization. <i>Crystals</i> , 2021, 11, 1090.	2.2	8
22	Reactive extraction for the recovery of primary amines from aqueous streams. <i>Separation and Purification Technology</i> , 2021, 277, 118229.	7.9	13
23	Model-based equipment design for the biphasic production of 5-hydroxymethylfurfural in a tubular reactor. <i>AIChE Journal</i> , 2020, 66, e16849.	3.6	12
24	Model-based selection of the degree of cross-linking of cation exchanger resins for an optimised separation of monosaccharides. <i>Journal of Chromatography A</i> , 2020, 1610, 460565.	3.7	3
25	Ternary System CO ₂ /2-MTHF/Water – Experimental Study and Thermodynamic Modeling. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 993-1004.	1.9	5
26	Microgels for the Intensification of Liquid-Liquid Extraction Processes – Feasibility and Advantages. <i>Chemical Engineering and Technology</i> , 2020, 43, 137-142.	1.5	5
27	Recovery of succinic acid by integrated multi-phase electrochemical pH-shift extraction and crystallization. <i>Separation and Purification Technology</i> , 2020, 240, 116489.	7.9	40
28	Compartment Model for Liquid-Liquid Extraction Columns. <i>Solvent Extraction and Ion Exchange</i> , 2020, 38, 66-87.	2.0	11
29	Process development for separation of lignin from OrganoCat lignocellulose fractionation using antisolvent precipitation. <i>Separation and Purification Technology</i> , 2020, 236, 116295.	7.9	17
30	Dynamic Modeling of Electrochemical pH-Swing Extraction. <i>Chemie-Ingenieur-Technik</i> , 2020, 92, 1953-1961.	0.8	1
31	Prediction and Characterization of Flooding in Pulsed Sieve Plate Extraction Columns Using Data-Driven Models. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 19726-19735.	3.7	10
32	Defined Microbial Mixed Culture for Utilization of Polyurethane Monomers. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17466-17474.	6.7	60
33	Lignin Precipitation and Fractionation from OrganoCat Pulping to Obtain Lignin with Different Sizes and Chemical Composition. <i>Molecules</i> , 2020, 25, 3330.	3.8	5
34	Integration of Genetic and Process Engineering for Optimized Rhamnolipid Production Using <i>Pseudomonas putida</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 976.	4.1	56
35	Influence of Reaction Conditions on the Settling Behavior of Liquid-Liquid Dispersions. <i>Chemie-Ingenieur-Technik</i> , 2020, 92, 1501-1507.	0.8	0
36	Selection of a recyclable <i>in situ</i> liquid-liquid extraction solvent for foam-free synthesis of rhamnolipids in a two-phase fermentation. <i>Green Chemistry</i> , 2020, 22, 8495-8510.	9.0	25

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37	Development, evaluation, and optimisation of downstream process concepts for rhamnolipids and 3-(3-hydroxyalkanoyloxy)alkanoic acids. Separation and Purification Technology, 2020, 250, 117031.	7.9	14
38	Inline Measurement of the Residence Time Distribution in High-Pressure Extraction Columns. Chemical Engineering and Technology, 2020, 43, 1659-1666.	1.5	0
39	Recent Advances in Experimental Techniques for Flow and Mass Transfer Analyses in Thermal Separation Systems. Chemie-Ingenieur-Technik, 2020, 92, 926-948.	0.8	22
40	Towards a holistic solvent screening: On the importance of fluid dynamics in a rate-based extraction model. Chemical Engineering Science, 2020, 227, 115905.	3.8	9
41	Compartment-model for the simulation of the separation performance of stirred liquid-liquid extraction columns. AIChE Journal, 2020, 66, e16286.	3.6	6
42	Two-Dimensional CFD based compartment modeling for dynamic simulation of semi-batch crystallization processes in stirred tank reactors. Computers and Chemical Engineering, 2020, 140, 106933.	3.8	11
43	Electrochemical Crystallization Concept for Succinic Acid Reduces Waste Salt Production. Chemie-Ingenieur-Technik, 2020, 92, 221-228.	0.8	14
44	Solvent accessibility limitation by plant matrix compounds in extraction of rutin from <i>Solanum lycopersicum</i> . Separation Science Plus, 2020, 3, 63-71.	0.6	0
45	Aerated extraction columns for <i>in situ</i> separation of bio-based diamines from cell suspensions. Journal of Chemical Technology and Biotechnology, 2019, 94, 426-434.	3.2	4
46	Performance Map for the Design of Liquid-Liquid Extraction Columns. Chemie-Ingenieur-Technik, 2019, 91, 1674-1680.	0.8	13
47	Modeling the fluid dynamics of a high-pressure extraction column. Journal of Supercritical Fluids, 2019, 154, 104636.	3.2	3
48	CFD based compartment-model for a multiphase loop-reactor. Chemical Engineering Science: X, 2019, 2, 100010.	1.5	5
49	Automation of a Procedure for the Experimental Investigation of Liquid-Liquid Phase Separation. Chemie-Ingenieur-Technik, 2019, 91, 1787-1793.	0.8	3
50	Design of Extractive Reaction Systems. Chemie-Ingenieur-Technik, 2019, 91, 1766-1776.	0.8	3
51	Tomato's Green Gold: Bioeconomy Potential of Residual Tomato Leaf Biomass as a Novel Source for the Secondary Metabolite Rutin. ACS Omega, 2019, 4, 19071-19080.	3.5	38
52	Methylformate from CO ₂ : an integrated process combining catalytic hydrogenation and reactive distillation. Green Chemistry, 2019, 21, 6307-6317.	9.0	20
53	Computer tomographic detection of the liquid-liquid mixing and separation within the Annular Centrifugal Contactor/Extractor. Chemical Engineering Research and Design, 2019, 142, 143-153.	5.6	17
54	Integrated in-situ product removal process concept for itaconic acid by reactive extraction, pH-shift back extraction and purification by pH-shift crystallization. Separation and Purification Technology, 2019, 215, 463-472.	7.9	30

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55	In situ reactive extraction of itaconic acid during fermentation of <i>Aspergillus terreus</i> . <i>Biochemical Engineering Journal</i> , 2018, 135, 133-141.	3.6	41
56	Fluid Dynamics of Microgel-Covered Drops Reveal Impact on Interfacial Conditions. <i>Polymers</i> , 2018, 10, 809.	4.5	17
57	From beech wood to itaconic acid: case study on biorefinery process integration. <i>Biotechnology for Biofuels</i> , 2018, 11, 279.	6.2	52
58	Four Atom Efficient Enzyme Cascades for All 4-Methoxyphenyl-1,2-propanediol Isomers Including Product Crystallization Targeting High Product Concentrations and Excellent E-Factors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11819-11826.	6.7	22
59	Carbon2Polymer – Conceptual Design of a CO ₂ -Based Process for the Production of Isocyanates. <i>Chemie-Ingenieur-Technik</i> , 2018, 90, 1497-1503.	0.8	14
60	Development of a CFD model for the simulation of a novel multiphase counter-current loop reactor. <i>Chemical Engineering Science</i> , 2017, 161, 350-359.	3.8	4
61	Liquid-liquid centrifugal separation – New equipment for optical (photographic) evaluation at laboratory scale. <i>Chemical Engineering Research and Design</i> , 2017, 127, 170-179.	5.6	10
62	Liquid-liquid equilibrium of 2-methyltetrahydrofuran/water over wide temperature range: Measurements and rigorous regression. <i>Fluid Phase Equilibria</i> , 2017, 433, 212-225.	2.5	24
63	Liquid/liquid extraction of biomass-derived lignin from lignocellulosic pretreatments. <i>Green Chemistry</i> , 2017, 19, 93-97.	9.0	29
64	Online monitoring of transient L/L phase separation using locally resolved impedance measurements. <i>Chemical Engineering Research and Design</i> , 2016, 115, 251-259.	5.6	0
65	Optimal design of batch and simulated moving bed chromatographic separation processes. <i>Journal of Chromatography A</i> , 2002, 944, 93-117.	3.7	87
66	Effect of the homogeneity of the column set on the performance of a simulated moving bed unit. <i>Journal of Chromatography A</i> , 2002, 944, 3-22.	3.7	38
67	Model-based control of batch chromatography. <i>AIChE Journal</i> , 2001, 47, 2493-2502.	3.6	29
68	Optimaler Betrieb von SMB-Chromatographieprozessen. <i>Chemie-Ingenieur-Technik</i> , 2000, 72, 589-593.	0.8	3
69	Experimentell verifizierte Prozessmodelle als Grundlage zur Synthese chromatographischer Prozesse. <i>Chemie-Ingenieur-Technik</i> , 2000, 72, 593-598.	0.8	3
70	Evaluation of ePC-SAFT for pH Calculation in Aqueous Itaconic Acid Solutions at High Ionic Strengths. <i>Journal of Solution Chemistry</i> , 0, , 1.	1.2	0