TomáÅ; Jirout

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8670233/publications.pdf Version: 2024-02-01



ΤομΑ:Δ:Ιμουτ

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A method for the determination of shear viscosity of power–law fluids in a rectangular duct and concentric annulus. Asia-Pacific Journal of Chemical Engineering, 2022, 17, e2727. | 1.5 | 2 |
| 2 | Efficiency of PBT Impellers with Different Blade Cross-Sections. Energies, 2022, 15, 585. | 3.1 | 2 |
| 3 | Friction factor of shear thinning fluids in non-circular ducts—a simplified approach for rapid engineering calculation. Chemical Engineering Communications, 2021, 208, 1209-1217. | 2.6 | 3 |
| 4 | A novel contactless transient method for measuring local values of heat transfer coefficient. Heat and Mass Transfer, 2021, 57, 1025-1038. | 2.1 | 1 |
| 5 | Change in Mixing Power of a Two-PBT Impeller When Emptying a Tank. Processes, 2021, 9, 341. | 2.8 | 6 |
| 6 | An investigation of the elastic properties of viscoelastic clusters of particles: A comparison between two methods. Polymer Engineering and Science, 2021, 61, 1440-1448. | 3.1 | 1 |
| 7 | Assessment of hydrodynamics based on Computational Fluid Dynamics to optimize the operation of hybrid tubular photobioreactors. Journal of Environmental Chemical Engineering, 2021, 9, 105768. | 6.7 | 16 |
| 8 | The Influence of Hydrodynamic Changes in a System with a Pitched Blade Turbine on Mixing Power. Processes, 2021, 9, 68. | 2.8 | 14 |
| 9 | Analysis of the Dispersion of Viscoelastic Clusters in the Industrial Rotor-Stator Equipment. Processes, 2021, 9, 2232. | 2.8 | 2 |
| 10 | Biogas Plant Upgrade to CO 2 â€Free Technology: A Technoâ€Economic Case Study. Chemical Engineering and Technology, 2020, 43, 1981-1993. | 1.5 | 4 |
| 11 | Application of Theoretical and Experimental Findings for Optimization of Mixing Processes and Equipment. Processes, 2020, 8, 955. | 2.8 | 7 |
| 12 | Analysis of Power Input of an In-Line Rotor-Stator Mixer for Viscoplastic Fluids. Processes, 2020, 8, 916. | 2.8 | 1 |
| 13 | Scale-Up of Mixing Equipment for Suspensions. Processes, 2020, 8, 909. | 2.8 | 2 |
| 14 | Effect of hydrodynamics on the formation and removal of microalgal biofilm in photobioreactors. Biosystems Engineering, 2020, 200, 315-327. | 4.3 | 10 |
| 15 | A practical method for predicting the friction factor of power-law fluids in a rectangular duct. Chemical Engineering Communications, 2019, 206, 1310-1316. | 2.6 | 4 |
| 16 | Mixing of a viscoplastic fluid in an in-line mixer. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 17 | Effect of rotation direction of helical-ribbon agitator on circulation of high viscous batch. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 18 | Investigation of mechanical properties of viscoelastic clusters of particles. AIP Conference Proceedings, 2019, , . | 0.4 | 1 |

ТомÃiÅi Jirout

| # | Article | IF | CITATIONS |
|----|--|-------------------|-----------|
| 19 | Diversity of Biogas Plant Realizations. Chemical Engineering and Technology, 2019, 42, 370-380. | 1.5 | 2 |
| 20 | The Influence of Mixing Method and Mixing Parameters in Process of Preparation of Anti-static Coating Materials Containing Nanoparticles. Lecture Notes in Mechanical Engineering, 2019, , 582-590. | 0.4 | 0 |
| 21 | APPLICATION OF THE TEMPERATURE OSCILLATION METHOD IN HEAT TRANSFER MEASUREMENTS AT THE WALL OF AN AGITATED VESSEL. Acta Polytechnica, 2018, 58, 144. | 0.6 | 7 |
| 22 | Liquid circulation in a stirred system with an axial flow impeller and a cylindrical draft tube. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 23 | Effect of Organic Solvents on Microalgae Growth, Metabolism and Industrial Bioproduct Extraction: A Review. International Journal of Molecular Sciences, 2017, 18, 1429. | 4.1 | 72 |
| 24 | Heat transfer measurements with TOIRT method. EPJ Web of Conferences, 2017, 143, 02113. | 0.3 | 1 |
| 25 | Heat Transfer at the Bottom of a Cylindrical Vessel Impinged by a Swirling Flow from an Impeller in a Draft Tube. Chemical and Biochemical Engineering Quarterly, 2017, 31, 343-352. | 0.9 | 2 |
| 26 | WpÅ,yw modyfikacji mieszadÅ,a z Å,amanymi Å,opatkami na efektywność mieszania. Przemysl Chemiczny, 201 1, 182-186. | 17 _{0.0} | 1 |
| 27 | Energyâ€Economic Analysis of Thermalâ€Expansionary Pretreatment for Its Implementation at a Biogas Plant. Chemical Engineering and Technology, 2016, 39, 2284-2292. | 1.5 | 6 |
| 28 | Heat transfer similarities between impinging jets and axial-flow impellers. Theoretical Foundations of Chemical Engineering, 2016, 50, 937-944. | 0.7 | 5 |
| 29 | Large eddy simulation of a pitched blade impeller mixed vessel – Comparison with LDA measurements. Chemical Engineering Research and Design, 2016, 108, 42-48. | 5.6 | 12 |
| 30 | Effect of rapid batch decompression on hydrolysate quality after hydrothermal pretreatment of wheat straw. Chemical Papers, 2015, 69, . | 2.2 | 1 |
| 31 | Heat transfer in a jacketed agitated vessel equipped with multistage impellers. Chemical Papers, 2015, 69, . | 2.2 | 4 |
| 32 | The effect of process parameters during the thermal-expansionary pretreatment of wheat straw on hydrolysate quality and on biogas yield. Renewable Energy, 2015, 77, 250-258. | 8.9 | 18 |
| 33 | MECHANICAL DISINTEGRATION OF WHEAT STRAW BY ROLLER-PLATE GRIND SYSTEM WITH SHARP-EDGED SEGMENTS. Acta Polytechnica, 2015, 55, 113-122. | 0.6 | 3 |
| 34 | IMPROVING SPECIFIC POWER CONSUMPTION FOR MECHANICAL MIXING OF THE FEEDSTOCK IN A BIOGAS FERMENTER BY MECHANICAL DISINTEGRATION OF LIGNOCELLULOSE BIOMASS. Acta Polytechnica, 2014, 54, 325-332. | 0.6 | 0 |
| 35 | Energyâ€Efficient Size Reduction Technology for Wet Fibrous Biomass Treatment in Industrial Biofuel Technology, 2014, 37, 1713-1720. | 1.5 | 3 |
| 36 | Pumping Capacity of Pitched Blade Multi-Stage Impellers. Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa, 2014, 35, 47-53. | 0.7 | 5 |

ТомÃiÅi Jirout

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Analysis of heat transfer in a vessel with helical pipe coil and multistage impeller. Canadian Journal of Chemical Engineering, 2014, 92, 2115-2121. | 1.7 | 8 |
| 38 | Effect of Impeller Shape on Solid Particle Suspension. Chemical and Process Engineering - Inzynieria Chemiczna l Procesowa, 2013, 34, 139-152. | 0.7 | 6 |
| 39 | A Study of CFD Simulations of the Flow Pattern in an Agitated System with a Pitched Blade Worn Turbine. Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa, 2013, 34, 39-49. | 0.7 | 3 |
| 40 | BLENDING CHARACTERISTICS OF HIGH-SPEED ROTARY IMPELLERS. Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa, 2013, 34, 427-434. | 0.7 | 3 |
| 41 | CFD SIMULATION OF A STIRRED DISHED BOTTOM VESSEL. Acta Polytechnica, 2013, 53, 906-912. | 0.6 | 1 |
| 42 | Lab-scale Technology for Biogas Production from Lignocellulose Wastes. Acta Polytechnica, 2012, 52, . | 0.6 | 18 |
| 43 | A study on blending characteristics of axial flow impellers. Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa, 2011, 32, . | 0.7 | 7 |
| 44 | The relation between the rate of erosion wear of a pitched blade impeller and its process characteristics. Chemical Engineering Research and Design, 2011, 89, 1929-1937. | 5.6 | 9 |
| 45 | Biomass Size Reduction Machines for Enhancing Biogas Production. Chemical Engineering and Technology, 2011, 34, 391-399. | 1.5 | 209 |
| 46 | Impeller design for mixing of suspensions. Chemical Engineering Research and Design, 2011, 89, 1144-1151. | 5.6 | 36 |
| 47 | Components of wall shear rate in wavy Taylor–Couette flow. Experimental Thermal and Fluid Science, 2011, 35, 1304-1312 | 2.7 | 5 |
| 48 | Mixing system for highly concentrated fine-grained suspensions. Polish Journal of Chemical Technology, 2009, 11, 52-56. | 0.5 | 3 |