

AICHE Journal Vol. 64 (2018)

Turbulent Flow Field in a Stirred Vessel Agitated by an Impeller with Flexible Blades
Liang, Y., Shi, D., Xu, B., Cai, Z., Gao, Z., pp. 4148-4161

Retardation of the Phase Segregation of Liquid Mixtures with a Critical Point of Miscibility
Califano, F., Mauri, R., pp. 4047-4052

Heat/mass transfer from a neutrally buoyant sphere by mixed natural and forced convection in a simple shear flow
Yuan, B., Yang, C., Mao, Z., Yin, X., Koch, D. L., pp. 2816-2827

The effect of mixing on Co-precipitation and evolution of microstructure of Cu-ZnO catalyst
Jiang, X., Qin, X., Ling, C., Wang, Z., Lu, J., pp. 2647-2654

Scalar mixing in anisotropic turbulent flow
Nguyen, Q., Papavassiliou, D. V., pp. 2803-2815

Monetizing shale gas to polymers under mixed uncertainty: Stochastic modeling and likelihood analysis
He, C., Pan, M., Zhang, B., Chen, Q., You, F., Ren, J., pp. 2017-2036

Influence of Mixing Performance on Polymerization of Acrylamide in Capillary Microreactors
Song, Y., Shang, M., Li, G., Luo, Z. H., Su, Y., pp. 1828-1840

Concentrated Slurry Formation via Drawdown and Incorporation of Wettable Solids in a Mechanically Agitated Vessel
Wood, T., Simmons, M. J. H., Greenwood, R. W., Stitt, E. H., pp. 1885-1895

Improving mixing characteristics with a pitched tip in kneading elements in twin-screw extrusion
Nakayama, Y., Takemitsu, H., Kajiwara, T., Kimura, K., Takeuchi, T., Tomiyama, H., pp. 1424-1434

Reduced power consumption in stirred vessels by means of fractal impellers
Basbug, S., Papadakis, G., Vassilicos, J. C., pp. 1485-1499

Mixing Processes in the Cavity Transfer Mixer: A Thorough Study
Grosso, G., Hulsen, M. A., Fard, A. S., Overend, A., Anderson, P. D., pp. 1034-1048

Eulerian-Lagrangian Simulations of Settling and Agitated Dense Solid-Liquid Suspensions - Achieving Grid Convergence
Derksen, J. J., pp. 1147-1158

Chaotic mixing in a barrier-embedded partitioned pipe mixer
Jung, S. Y., Ahn, K. H., Kang, T. G., Park, G. T., Kim, S. U., pp. 717-729

Numerical and experimental investigation on surface air entrainment mechanisms of a novel long-short blades agitator
Zhang, Y., Pan, X., Wang, Y., Luo, P., Wu, H., pp. 316-325

Particle-resolved PIV experiments of solid-liquid mixing in a turbulent stirred tank
Li, G., Gao, Z., Li, Z., Wang, J., Derksen, J. J., pp. 389-402

Canadian Journal of Chemical Engineering Vol. 96 (2018)

Diffusion and convection mixing of non-Newtonian liquids in an optimized micromixer
Bordbar, A., Taassob, A., Kamali, R., pp. 1829-1836

CFD simulation of hydrodynamics characteristics in a tank stirred by a hollow self-inducing impeller

Li, L., Chen, N., Xiang, K., Xiang, B., pp. 1837-1848

On the mixing characteristics of a poorly water soluble drug through microfluidic-assisted nanoprecipitation: Experimental and numerical study

Rahimi, M., Valeh-e-Sheyda, P., Zarghami, R., Rashidi, H., pp. 1098-1108

Chemical Engineering Communications Vol. 205 (2018)

Passive, active, and interactive drag-reduction technique to reduce friction and enhance the mixing intensity in rotating disk apparatus
Abdulbari, H. A., Salleh, M. A. M., Rashed, M. K., Ismail, M. H. S., pp. 1623-1640

Effects of the impeller blade geometry on the performance of a turbo pneumatic separator
Zhao, H., Liu, J., Yu, Y., pp. 1641-1652

Numerical simulation of mixing process in T-shaped and DT-shaped micromixers
Izadpanah, E., Hekmat, M. H., Azimi, H., Hoseini, H., Rabiee, M. B., pp. 363-371

Interactions of mixing and reaction kinetics of depolymerization of cellulose to renewable fuels
Gaikwad, A., pp. 47-81

Chemical Engineering Journal Vol. 331-354(2018)

Micro-reactor mixing unit interspacing for fast liquid-liquid reactions leading to a generalized scale-up methodology
Mielke, E., Plouffe, P., Mongeon, S. S., Aellig, C., Filliger, S., Macchi, A., Roberge, D. M., vol. 352, pp. 682-694

Experimental investigation of the effect of scale-up on mixing efficiency in oscillatory flow baffled reactors (OFBR) using principal component based image analysis as a novel noninvasive residence time distribution measurement approach
Oliva, J. A., Pal, K., Barton, A., Firth, P., Nagy, Z. K., vol. 351, pp. 498-505

Numerical investigation of a coarse-grain discrete element method in solid mixing in a spouted bed
Takabatake, K., Mori, Y., Khinast, J. G., Sakai, M., vol. 346, pp. 416-426

Convective mixing of miscible liquids in a rotor-stator spinning disk reactor
Toma, H., Nishino, K., vol. 346, pp. 329-339

Intensification of the O₃/H₂O₂ advanced oxidation process using a continuous tubular reactor filled with static mixers: Proof of concept
Biard, P. F., Dang, T. T., Bocanegra, J., Couvert, A., vol. 344, pp. 574-582

A techno-economic assessment of the potential for combining supercritical water oxidation with 'in-situ' hydrothermal synthesis of nanocatalysts using a counter current mixing reactor
Al-Atta, A., Huddle, T., Rodriguez, Y. G., Mato, F., Garcia-Serna, J., Cocero, M. J., Gomes, R., Lester, E., vol. 344, pp. 431-440

3D MRI velocimetry of non-transparent 3D-printed staggered herringbone mixers
Wiese, M., Benders, S., Blumich, B., Wessling, M., vol. 343, pp. 54-60

A step forward in heterogeneous photocatalysis: Process intensification by using a static mixer as catalyst support
Diez, A. M., Moreira, F. C., Marinho, B. A., Espindola, J. C. A., Paulista, L. O., Sanroman, M. A., Pazos, M., Boaventura, R. A. R., Vilar, V. J. P., vol. 343, pp. 597-606

Steady and unsteady regimes in a T-shaped micro-mixer: Synergic experimental and numerical investigation
Mariotti, A., Galletti, C., Mauri, R., Salvetti, M. V., Brunazzi, E., vol. 341, pp. 414-431

Simulations on time scales and conversion of fast competing reactions in rapid mixing
Zhu, Z., Wang, X., vol. 336, pp. 741-747

Enhancing anaerobic fermentation performance through eccentrically stirred mixing: Experimental and modeling methodology

Huang, Y., Dehkordy, F. M., Li, Y., Emadi, S., Bagtzoglou, A., Li, B., vol. 334, pp. 1383

Enhancement of mixing inside ionic liquid droplets through various micro-channels design
Bai, L., Fu, Y., Yao, M., Cheng, Y., vol. 332, pp. 537-547

Chemical Engineering and Processing: Process Intensification Vol. 123-134 (2018)

Investigation of mixing efficiency and pressure drop in T-shaped micromixers
Lobasov, A. S., Minakov, A. V., Kuznetsov, V. V., Rudyak, V. Y., Shebeleva, A. A., vol. 134, pp. 105-114

Simulated and experimental evaluation of liquid surface and mixing ratio for rotation revolution mixing
Fukumura, M., Imai, K., Matsuoka, S., Inaba, T., vol. 133, pp. 117-127

Gas to liquid mass transfer in mixing system with application of rotating magnetic field
Rakoczy, R., Konopacki, M., Lechowska, J., Bubnowska, M., Hurter, A., Kordas, M., Fijalkowski, K., vol. 130, pp. 11-18

Experimental investigation of hydrodynamic and heat transfer effects on scaling in an agitated tank
Das, P., Khan, M. M. K., Rasul, M. G., Wu, J., Youn, I., vol. 128, pp. 245-256

Numerical simulation for electro-osmotic mixing under three types of periodic potentials in a T-shaped micro-mixer
Cheng, Y.L., Jiang, Y., Wang, W. Y., vol. 127, pp. 93-102

Numerical investigation of mixing enhancement for multi-species flows in wavy channels
Borgohain, P., Choudhary, D., Dalal, A., Natarajan, G., vol. 127, pp. 191-205

A review on the application, simulation, and experiment of the electrokinetic mixers
Rashidi, S., Bafeqr, H., Valipour, M. S., Esfahani, J. A., vol. 126, pp. 108-122

Mixing enhancement in microchannels using thermo-viscous expansion by oscillating temperature wave
Isfahani, A. H. M., Nasehi, R., Shirani, E., vol. 126, pp. 123-131

Investigation of power characteristics in a novel cup-shaped-blade mixer
Guo, C. L., Xue, S., Li, W., Qin, H. Y., Guo, J. H., Zhang, J. L., vol. 125, pp. 150-162

Process intensification in a chaotic SMX static mixer to achieve an energy-efficient mixing operation of non-newtonian fluids
Jegatheeswaran, S., Ein-Mozaffari, F., Wu, J. N., vol. 124, pp. 1-10

Analyzing mixing quality in a T-shaped micromixer for different fluids properties through numerical simulation
Lobasov, A. S., Minakov, A. V., vol. 124, pp. 11-23

Hydrogenation of vinyl acetate using a continuous flow tubular reactor with catalytic static mixers
Nguyen, X., Carafa, A., Hornung, C. H., vol. 124, pp. 215-221

CFD studies on effects of SCR mixers on the performance of urea conversion and mixing of the reducing agent
Tan, L. G., Feng, P. F., Yang, S. B., Guo, Y. G., Liu, S. C., Li, Z. W., vol. 123, pp. 82-88

Chemical Engineering Research and Design Vol. 129-140 (2018)

Analysis of MHD micro-mixers with differential pumping capabilities for two different miscible fluids
Xiao, X., Li, T., Kim, C. N., vol. 139, pp. 12-25

Influence of rheological properties of stirred liquids on the axial and tangential forces in a vessel with a PMT impeller
Story, A., Jaworski, Z., Major-Godlewska, M., Story, G., vol. 138, pp. 398-404

Intensity and efficiency of droplet dispersion: Pulsating flow type apparatus vs. static mixers
Vasilev, M. P., Abiev, R. S., vol. 137, pp. 329-349

Blending in above ground storage tanks with side-entering agitators

Grenville, R. K., Giacomelli, J. J., VanOmmeren, G. J., Hastings, C. F., Walters, M. J., vol. 137, pp. 395-402

Mixed-time mixed-integer linear programming for optimal detailed scheduling of a crude oil port depot

Zhang, H. R., Liang, Y. T., Liao, Q., Gao, J., Yan, X. H., Zhang, W., vol. 137, pp. 434-451

Characterization of a vibromixer: Experimental and modelling study of mixing in a batch reactor

Orlewski, P. M., Wang, Y., Hosseinalipour, M. S., Kryscio, D., Iggleland, M., Mazzotti, M., vol. 137, pp. 534-543

Impact of operating parameters on values of a volumetric mass transfer coefficient in a single-use bioreactor with wave-induced agitation
Pilarek, M., Sobieszuk, P., Wierzchowski, K., Dabkowska, K., vol. 136, pp. 1-10

Complementary methods for the determination of the just-suspended speed and suspension state in a viscous solid-liquid mixing system
Bertrand, O., Blais, B., Bertrand, F., Fradette, L., vol. 136, pp. 32-40

Flow and power characteristics of an axial discharge rotor-stator mixer

Minnick, B. A., Kim, J. W., Ko, D. I., Calabrese, R. V., vol. 136, pp. 477-490

Inter-compartment interaction in multi-impeller mixing: Part I. Experiments and multiple reference frame CFD

Haringa, C., Vandewijer, R., Mudde, R. F., vol. 136, pp. 870-885

Inter-compartment interaction in multi-impeller mixing. Part II. Experiments, sliding mesh and large Eddy simulations

Haringa, C., Vandewijer, R., Mudde, R. F., vol. 136, pp. 886-899

A continuous multi-stage mixed-suspension mixed-product-removal crystallization system with fines dissolution

Acevedo, D., Jarmer, D. J., Burcham, C. L., Polster, C. S., Nagy, Z. K., vol. 135, pp. 112-120

Effect of mixing conditions on the wet preparation of ceramic foams

Celani, A., Blackburn, S., Simmons, M. J. H., Stitt, E. H., vol. 134, pp. 1-14

Mixing of fluids with dissimilar viscosities in Confined Impinging Jets

Brito, M. S. C. A., Esteves, L. P., Fonte, C. P., Dias, M. M., Lopes, J. C. B., Santos, R. J., vol. 134, pp. 392-404

An investigation of mixing performance in helically coiled microchannels by the Villermaux/Dushman reaction

Izadi, M., Rahimi, M., Beigzadeh, R., vol. 134, pp. 507-517

Experimental study on the solid suspension characteristics of coaxial mixers

Liu, B. Q., Xu, Z. L., Fan, F. Y., Huang, B. L., vol. 133, pp. 335-346

Performance of agitated-vessel U tube heat exchanger using spiky twisted tapes and water based metallic nanofluids

Khoshnagh-Aliabadi, M., Davoudi, S., Dibaei, M. H., vol. 133, pp. 26-39

Gas-liquid mixing in dual agitated vessels in the heterogeneous regime

Jamshed, A., Cooke, M., Ren, Z., Rodgers, T.L., vol. 133, pp. 55-69

Foreword: ISMIP, 1995 to 2020, THE International Mixing Conference

Nienow, A. W., Hirata, Y., vol. 133, pp. 314-315

An energy transport based evolving rheology in high-shear rotor-stator mixers

Ahmed, U., Michael, V., Hou, R. Z., Mothersdale, T., Prosser, R., Kowalski, A., Martin, P., vol. 133, pp. 398-406

Multi-particle suspension in a laminar flow agitated by a Rushton turbine

Wang, C., Zhang, L., Li, Z. P., Gao, Z. M., Derksen, J. J., vol. 132, pp. 831-842

Particle de-agglomeration with an in-line rotor-stator mixer at different solids loadings and viscosities

Padron, G. A., Ozcan-Taskin, N. G., vol. 132, pp. 913-921

Hydrodynamic characterization of dual-impeller submerged membrane bioreactor relevant to single-use bioreactor options

Vlaev, S. D., Tsibranska, I., Dzhonoua-Atanasova, D., vol. 132, pp. 930-941

Mixing enhancement of a novel C-SAR microfluidic mixer

Chen, K. X., Lu, H., Sun, M., Zhu, L., Cui, Y. P., vol. 132, pp. 338-345

Investigation of vertical mixing in thin-layer cascade reactors using computational fluid dynamics

Severin, T. S., Apel, A. C., Bruck, T., Weuster-Botz, D., vol. 132, pp. 436-444

Study of drop coalescence and mixing in microchannel using Ghost Particle Velocimetry

Kovalchuk, N. M., Chowdhury, J., Schofield, Z., Vigolo, D., Simmons, M. J. H., vol. 132, pp. 881-889

Macro- and micro-scale mixing in a shaken bioreactor for fluids of high viscosity

Rodriguez, G., Micheletti, M., Ducci, A., vol. 132, pp. 890-901

Linking continuous and recycle emulsification kinetics for in-line mixers

De Hert, S. C., Rodgers, T. L., vol. 132, pp. 922-929

Optimisation of mixing performance of helical ribbon mixers for high throughput applications using computational fluid dynamics

Mihailova, O., Mothersdale, T., Rodgers, T., Ren, Z., Watson, S., Lister, V., Kowalski, A., vol. 132, pp. 942-953

Pumping capacity of inline dynamic mixers and its effect on process flow control

Casugbo, C., Baker, M. R., vol. 132, pp. 982-988

Flow studies in an in-line Silverson 150/250 high shear mixer using PIV

Espinoza, C. J. U., Simmons, M. J. H., Alberini, F., Mihailova, O., Rothman, D., Kowalski, A. J., vol. 132, pp. 989-1004

Experimental and computational investigation of mixing with contra-rotating, baffle-free impellers

Satjaritanun, P., Bringley, E., Regalbuto, J. R., Regalbuto, J. A., Register, J., Weidner, J. W., Khunatorn, Y., Shimpalee, S., vol. 130, pp. 63-77

Local levels of dissipation rate of turbulent kinetic energy in a rotor-stator mixer with different stator slot widths-An experimental investigation

Mortensen, H. H., Innings, F., Hakansson, A., vol. 130, pp. 52-62

Improving oxygen transfer efficiency by developing a novel energy-saving impeller

Zheng, Z. Y., Sun, D. D., Li, J., Zhan, X. B., Gao, M. J., vol. 130, pp. 199-207

Experimental investigation on an aerated mixing vessel through electrical resistance tomography (ERT) and response surface methodology(RSM)

Malik, D., Pakzad, L., vol. 129, pp. 327-343

Chemical Engineering Science Vol. 175-192 (2018)

Lagrangian mixing simulation and quantification of scales

Matos, J., Brito, M. S. C. A., Dias, M. M., Lopes, J. C. B., Santos, R. J., vol. 192, pp. 199-210

The effect of mixing on silver particle morphology in flow synthesis

Yang, T., Segets, D., Thajudeen, T., Han, Y. S., Peukert, W., vol. 192, pp. 254-263

Hydrodynamics, mass transfer and cell growth characteristics in a novel microbubble stirred bioreactor employing sintered porous metal plate impeller as gas sparger

Li, G. L., Li, H., Wei, G. G., He, X., Xu, S., Chen, K. Q., Ouyang, P. K., Ji, X. J., vol. 192, pp. 665-677

DEM simulation of the mixing behavior in a spheronization process

Weis, D., Evers, M., Thommes, M., Antonyuk, S., vol. 192, pp. 803-815

Homogenization of liquids inside a new soft elastic reactor: Revealing mixing behavior through dimensional analysis

Delaplace, G., Gu, Y. Y., Liu, M. H., Jeantet, R., Xiao, J., Chen, X. D., vol. 192, pp. 1071-1080

Investigation of propeller mixer for agitation of non-Newtonian fluid flow to predict the characteristics within the design process

Reviol, T., Kluck, S., Etringer, G., Wang, P., Bohle, M., vol. 191, pp. 420-435

Discrete element method based analysis of mixing and collision dynamics in adhesive mixing process
Deng, X. L., Zheng, K., Dave, R. N., vol. 190, pp. 220-231

A new design method for propeller mixers agitating non-Newtonian fluid flow
Reviol, T., Kluck, S., Bohle, M., vol. 190, pp. 320-332

Mixing of non-Newtonian fluids in a cylindrical stirred vessel equipped with a novel side-entry propeller
Wang, P., Reviol, T., Kluck, S., Wurtz, P., Bohle, M., vol. 190, pp. 384-395

Simulations of dense agitated solid-liquid suspensions - Effects of the distribution of particle sizes
Derksen, J. J., vol. 189, pp. 56-64

Hydrodynamic inhomogeneities in large scale stirred tanks - Influence on mixing time
Rosseburg, A., Fitschen, J., Wutz, J., Wucherpfennig, T., Schluter, M., vol. 188, pp. 208-220

In-pipe rheology and mixing characterisation using electrical resistance sensing
Machin, T. D., Wei, H. Y., Greenwood, R. W., Simmons, M. J. H., vol. 187, pp. 327-341

Pulsatile electroosmotic flow in a microchannel with asymmetric wall zeta potentials and its effect on mass transport enhancement and mixing
Medina, I., Toledo, M., Mendez, F., Bautista, O.,
vol. 184, pp. 259-272

Formulation and validation of a computational model for a dilute biomass slurry undergoing rotational mixing
Sprague, M. A., Stickel, J. J., Sitaraman, H., Crawford, N., vol. 182, pp. 108-118

Simulation of reactive mixing behaviors inside micro-droplets by a lattice Boltzmann method
Fu, Y. H., Bai, L., Zhao, S. F., Zhang, X., Jin, Y., Cheng, Y., vol. 181, pp. 79-89

Single droplet breakup in a rotor-stator mixer
Ashar, M., Arlov, D., Carlsson, F., Innings, F., Andersson, R., vol. 181, pp. 186-198

Mixing in a soft-elastic reactor (SER) characterized using an RGB based image analysis method
Xiao, J., Zou, C., Liu, M. H., Zhang, G. D., Delaplace, G., Jeantet, R., Chen, X. D., vol. 181, pp. 272-285

Computational fluid dynamic studies of mixers for highly viscous shear thinning fluids and PIV validation
Cortada-Garcia, M., Weheliye, W. H., Dore, V., Mazzei, L., Angeli, P., vol. 179, pp. 133-149

A validation of commonly used CFD methods applied to rotor stator mixers using PIV measurements of fluid velocity and turbulence
Mortensen, H. H., Arlov, D., Innings, F., Hakansson, A., vol. 177, pp. 340-353

LES and PIV investigation of turbulent characteristics in a vessel stirred by a novel long-short blades agitator
Pan, X., Ding, L., Luo, P. C., Wu, H., Zhou, Z., Zhang, Z. B., vol. 176, pp. 343-355

Mixing and orientation behaviors of cylindrical particles in a mixing layer of an Oldroyd-B fluid
Lin, J. Z., Wang, Y. L., Zhang, P. J., Ku, X. K., vol. 176, pp. 270-284

Chemical Engineering & Technology Vol. 41 (2018)

Structuring of Batch Mixer Loading to Improve Mixing Time and Mixture Quality of Solids
Mizonov, V., Balagurov, I., Berthiaux, H., Gatumel, C., pp. 1505-1510

Borax Crystallization Kinetics in a Pitched-Blade Turbine/Straight-Blade Turbine Dual-Impeller Crystallizer
Celan, A., Cosic, M., Kuzmanic, N., pp. 1342-1349

CFD Modeling of Active Volume Creation in a Non-Newtonian Fluid Agitated by Submerged Recirculating Jets

Wu, B. X., Kennedy, S., Eshtiaghi, N., Parthasarathy, R., pp. 1441-1447

Prediction of Power Consumption in a Mechanically Agitated Gassed Reactor in Viscous Batches
Petricek, R., Moucha, T., Rejl, F. J., Valenz, L., Haidl, J., pp. 936-947

Computational Fluid Dynamics Study of Flow Induced by a Grooved High-Shear Impeller in an Unbaffled Tank
Martinez-de Jesus, G., Ramirez-Munoz, J., Garcia-Cortes, D., Cota, L. G., pp. 580-589

Industrial & Engineering Chemistry Research Vol. 57 (2017)

Highly Efficient Production of Graphene by an Ultrasound Coupled with a Shear Mixer in Supercritical CO₂
Wang, W. C., Gai, Y. Z., Song, N. N., Xiao, D., Tan, H. J., Zhao, Y. P., pp. 16701-16708

Understanding the Crystallization Process in Detergent Formulations in the Absence and Presence of Agitation
Summerton, E., Bettoli, J., Jones, C., Britton, M. M., Bakalis, S., pp. 16162-16171

Study of Soybean Oil Epoxidation: Effects of Sulfuric Acid and the Mixing Program
Vianello, C., Piccolo, D., Lorenzetti, A., Salzano, E., Maschio, G., pp. 11517-11525

Multiscale Modeling and Simulation of Macromixing, Micromixing, and Crystal Size Distribution in Radial Mixers/Crystallizers
da Rosa, C. A., Braatz, R. D., pp. 5433-5441

Mixing of Stratified Miscible Liquids in an Unbaffled Tank with Application in High Concentration Protein Drug Product Manufacturing
Yu, Z., Finch, B. A., Hale, D. A., pp. 3397-3409

Development of a DEM-VOF Model for the Turbulent Free-Surface Flows with Particles and Its Application to Stirred Mixing System
Wu, L., Gong, M., Wang, J. T., pp. 1714-1725

Chinese Journal of Chemical Engineering Vol. 26 (2018)

Effects on the mixing process of a coiled tube after a T-junction: Simulation and correlation
Zhu, S., Wang, K., Lu, Y. C., pp. 2441-2447

Experimental study on gas-liquid dispersion and mass transfer in shear-thinning system with coaxial mixer
Liu, B. Q., Zheng, Y. J., Cheng, R. J., Xu, Z. L., Wang, M. M., Jin, Z. J., pp. 1785-1791

Effects of rotational speed and fill level on particle mixing in a stirred tank with different impellers
Bao, Y. Y., Lu, Y., Cai, Z., Gao, Z., pp. 1383-1391

Characterization on the hydrodynamics of a covering-plate Rushton impeller
Su, T., Yang, F., Li, M., Wu, K., pp. 1392-1400

Critical impeller speeds for a gas-inducing stirring tank loaded with solid particles
Zhang, Y., Zhang, Z., Wei, C., Wang, H., pp. 1423-1429

Assessment of k-epsilon models using tetrahedral grids to describe the turbulent flow field of a PBT impeller and validation through the PIN technique
Mendoza-Escamilla, V. X., Alonzo-Garcia, A., Mollinedo, H. R., Gonzalez-Neria, I., Yanez-Varela, J. A., Martinez-Delgadillo, S. A., pp. 942-956

Synergistic and interference effects in coaxial mixers: Numerical analysis of the power consumption
Huang, J., Dai, G., pp. 684-694

Korean Journal of Chemical Engineering Vol. 35 (2018)

Nanoliter scale microloop reactor with rapid mixing ability for biochemical reaction
Jeong, S. G., Jeong, J. H., Kang, K. K., Jin, S. H., Lee, B., Choi, C. H., Lee, C. S., pp. 2036-2042

Gas-liquid mass transfer studies: The influence of single- and double-impeller configurations in stirred tanks
Pan, A., Xie, M., Xia, J., Chu, J., Zhuang, Y., pp. 61-72

JOURNAL OF CHEMICAL ENGINEERING OF JAPAN Vol. 51 (2018)

On the Agitation Characteristic Curve of Medium Light Particles in a Stirred Tank Based on CFD Simulation
Liu, Z., Li, M., Xu, W., Ouyang, D., Li, M., Li, Z., Xie, D., Sun, J., pp. 556-565

Investigation of Torque and Horizontal Load on a Paddle Impeller in Eccentric Mixing
Tanabe, H., Misumi, R., Kaminoyama, M., Nishi, K., pp. 197-202

Submerged Recirculating Liquid Jet Mixing: A Comparison of Nozzle Orientation and Tank Aspect Ratio
Kennedy, S., Bhattacharjee, P. K., Eshtiaghi, N., Parthasarathy, R., pp. 166-169
Application of a Rotationally Reciprocating Plate Impeller on Crystallization Process
Date, T., Komoda, Y., Suzuki, H., Hidema, R., Suzuki, K., pp. 159-165

Mixing Characteristics of Submerged Fungal Fluid in a Flexible Stirred Mixer System
Ghobadi, N., Ogino, C., Ogawa, T., Ohmura, N., pp. 143-151

Analyses of Dynamical Systems Structures and Mixing Patterns in an Anchor Agitator
Jo, H. J., Jang, H. K., Kim, Y. J., Hwang, W. R., pp. 136-142

Intensification of Mixing Processes with Complex Fluids
Ohmura, N., Masuda, H., Wang, S., pp. 129-135

Effects of Location of Baffle and Clearance between Baffle and Vessel Wall on Isolated Mixing Regions
Furukawa, H., Ohtani, S., Kato, Y., Tada, Y., pp. 29-32

Chaotic Analysis Based on Velocity Measurement in Nozzle Opposed Impinging Stream Mixer
Zhang, J., Zhang, Z., Dong, X., Feng, Y., Shang, P., pp. 21-28

Electrochemical Ozone Water Production with External Gas-Liquid Mixer
Okada, F., Kato, T., Nagashima, K., Nozawa, D., Naya, K., pp. 6-15

化学工学論文集 Vol. 44 (2018)

高粘度用搅拌翼 LR500 の混合性能
加藤, 根本, 吾郷, 荒井, 古川, 加藤, pp. 346-349

潜在的混合パターンに基づく流体混合理論
井上, 341-345

回転円筒型液液抽出装置内における流動・分散・物質移動シミュレーション
佐野, 坂本, 竹内, 三角, 國井, 轟, 仁志, 上ノ山, pp. 335-340

非ニュートン流体に対する槽回転新型アンカー翼の開発
荒井, 森川, 朝山, 古川, 加藤, pp. 292-297

装置サイズが異なる回転円筒型液液抽出装置の混合部における流動状態
三角, 轟, 國井, 仁志, 上ノ山, 佐野, 坂本, 竹内, pp. 285-291

回転円筒型液液抽出装置における流動状態におよぼす操作条件の影響
三角, 國井, 轟, 仁志, 上ノ山, 佐野, 坂本, 竹内, pp. 135-141

液液搅拌槽における最小分散回転数の汎用的推算法
相田, 庄野, pp. 94-98

マグネチックスターへの HB 搅拌翼の応用
鈴木, 池田, 古川, 加藤, pp. 91-93