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## LIST OF ACCEPTED PAPERS

In the Table below are listed contributions which were accepted for presentation by 20 March 2020. Hitherto submitted but not accepted papers are presented in the [List of Additional Papers](#)

Table below can be sorted according to the column content by clicking on column heading. For more convenience you can filter the table according to the topic. Please select topic from drop-down menu and wait for several seconds for the result. Individual searches in the table can be made by pressing CTRL and F.

Notes and explanations

- Topic = administrative code of the topic (click [here](#))
- Form = assigned form of presentation: L - lecture, P - poster, KL - keynote lecture, PL - plenary lecture
- Author team = list of surnames with speaker denoted by asterisk
- Title = title of paper
- Country = country of the corresponding author. For the list of country codes click [here](#)

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Total number of papers: 523

| <a href="#">Ser. No.</a> | <a href="#">Topic</a> | <a href="#">Form</a> | <a href="#">Author Team</a>                 | <a href="#">Title</a>  | <a href="#">Country</a> |
|--------------------------|-----------------------|----------------------|---|--|-------------------------|
| 0001                     | 84                    | P                    | Yaghobi, Vafajoo*                           | Oxidative coupling of methane: An artificial neural network modeling                                   | IR                      |
| 0003                     | 25                    | L                    | Zamani, Vafajoo*                            | A feasibility study for solar system utilization in an upstream oil and gas facility                   | IR                      |
| 0004                     | 84                    | P                    | Oliveira, Costa, Nucci*                     | Application of Z and Laplace transforms to modelling a bioprocess using an airlift bioreactor          | BR                      |
| 0005                     | 84                    | P                    | Nascimento, Caillaux Filho, Andrade, Nucci* | Decision support system based on Fuzzy Logic for the quality of the finished product of a microbrewery | BR                      |
| 0006                     | 23                    | L                    | Valverde, Espin*, Duran-Olivencia, Ebri     | Role of particle size on the cohesive behavior of limestone powders at high temperature                | ES                      |
| 0007                     | 23                    | P                    | Valverde, Espin*, Ebri                      | Tensile strength and compressibility of fine CaCO <sub>3</sub> powders. Effect of nanosilica addition  | ES                      |
| 0009                     | 31                    | P                    | Hsu*, Tseng                                 | A stochastic simulation of the adsorption of colloidal particles in a cascade system                   | TW                      |

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|------|----|----|--|---|----|
| 0010 | 81 | KL | Salmi, Freites Aguilera*, Russo, Warnå, Tolvanen, Eranen, Leveneur           | Advanced modelling of fatty acid epoxidation process à la Prileschajew  | FI |
| 0011 | 32 | KL | Suerz*, Eranen, Kumar, Aho, Warnå, Murzin, Salmi                             | Dehydration of ethanol in microreactor: kinetics and catalyst durability  | FI |
| 0012 | 75 | P  | Edwards, Moonisar, Riverol*  | Creating a Benfield fail-safe CO2 removal process. A reliability analysis   | TT |
| 0013 | 34 | P  | Hossienpour, Kazemeini*  | Developing an optimized microreactor geometry for catalytic conversion of ethyl mercaptan over a H-ZSM-5 catalyst   | IR |
| 0015 | 22 | L  | Reinsdorf*, Eranen, Salmi  | Direct synthesis of hydrogen peroxide in alcohols: Understanding the role of organic and inorganic processes with transient studies                                       | FI |
| 0017 | 83 | P  | Bitchikh*, Smakghi, Meniai   | Modeling of ibuprofen in pure solvents using UNIFAC and NRTL  | DZ |
| 0019 | 13 | KL | Saeid*, Russo, Tolvanen, Kumar, Eranen, Salmi                                | Development of combined ozonation and catalytic technology for elimination of pharmaceuticals from wastewaters  | FI |
| 0020 | 84 | L  | Hesse*, Antonyuk, Gilberg, Niedziela, Steiner                                | Multiscale modelling of geometry-dependent silo discharge behaviour for cohesive powders  | DE |
| 0021 | 26 | L  | Albo*, Garcia  | Visible-light driven CO2 reduction to methanol at Mo2C-doped TiO2 surfaces  | ES |
| 0022 | 85 | P  | Xu*, Li, Wang, Liu, Wang   | A novel flue gas desulfurization new technology   | CN |
| 0023 | 85 | P  | Wang, Liu, Wang, Li, Xu*   | Study on the regeneration of Fe3+ by electrochemical oxidation of Fe2+ on Ti-supported oxide electrode  | CN |
| 0024 | 32 | L  | Neukauffer*, Hanusch, Rehfeldt, Klein, Grutzner                              | 3D printing as a tool for flexible design of distillation columns for laboratory applications   | DE |
| 0025 | 85 | P  | Xu*, Li, Wang, Liu, Wang   | A novel flue gas desulfurization new technology - Improved Chiyoda flue gas desulfurization process   | CN |
| 0026 | 82 | P  | You*, Chen, Lee  | Energy efficient design of biobutanol purification process from acetone butanol ethanol fermentation  | TW |
| 0027 | 82 | P  | Tsau*, Lee, Chen   | Evolutional design of ethyl lactate production process via reactive distillation with pervaporation   | TW |
| 0028 | 65 | P  | Koltsova, Vasilenko*, Kalenov, Zhabenkova                                    | Experimental research and mathematical modeling of cultivation processes of halophilic algae and halobacteria communities   | RU |
| 0029 | 81 | P  | Ponomaryov, Pisarenko*, Shevchenko   | Kinetic modeling of propane dehydrogenation catalyzed by modified MFI zeolites  | RU |
| 0030 | 81 | P  | Pisarenko*, Ponomaryov, Ilinova  | Kinetic studies of the process of selective hydrogenation of methylacetylene in the propane-propylene fractions of pyrolysis gasses over efficient polymetallic catalysts | RU |
| 0031 | 54 | P  | Barzegary, Kazemeini*, Farhadi, Rezaei, Keshavarz                            | Propane dry reforming upon the NiO-MgO-SiO2 catalyst: Investigations of the Ni loading effects  | IR |
| 0032 | 54 | KL | Vajglova, Kumar*, Maki-Arvela, Eranen, Perula, Hupa, Nurmi, Toivakka, Murzin | Synthesis and characterization of metal (Ru-, Pt-) modified and acidic Beta and Y microporous zeolites shaped catalysts for production of fine chemicals                  | FI |

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|------|----|----|--|---|----|
| 0033 | 84 | L  | Dasgupta, Atta*  | Intensifying a hydrotreating trickle bed reactor by flow modulation   | IN |
| 0034 | 66 | KL | Stanovsky, Zitkova, Karaszova, Syc, Jansen, Gandara, McKeown, Izak*                    | Flue gas purification with membranes based on the polymer of intrinsic microporosity and water swollen thin film composite membrane               | CZ |
| 0035 | 67 | P  | Gheju*, Balcu  | Effect of sand co-presence on contaminant removal in Fe0/H2O system. New light from non-disturbed batch and continuous-flow experiments           | RO |
| 0036 | 65 | P  | Solera, Sales, Perez*  | Anaerobic codigestion of sewage sludge: addition of glycerin as a cosubstrate for enhancing biogas production                                     | ES |
| 0037 | 62 | P  | Baia, Souza, Figueiredo*   | Effect of particle size of different biomaterials, temperature, time and biomaterial / urea ratio on the release rate of urea                     | BR |
| 0038 | 65 | P  | Perez*, Sales, Solera  | Enzymatic pre-treatments to enhance the anaerobic digestion of sewage sludge  | ES |
| 0039 | 11 | L  | Mutch*, McNeil, Iacoviello, Bailey, Neagu, Miller, Papaioannou, Hu, Shearing, Metcalfe | Supported molten-carbonate membranes with self-forming silver dendritic functionality for high carbon dioxide flux                                | UK |
| 0040 | 81 | L  | Eic*, Shirani  | Surface resistance effect analysis in carbon molecular sieves and zeolites using ZLC method   | CA |
| 0041 | 33 | L  | Lebrun*, Hebrard, Dietrich   | Effect of the surfactant length on oxygen mass transfer in bubbly flow  | FR |
| 0042 | 82 | L  | Losch*, Puderbach, Nikolaus, Antonyuk  | Investigation of the particle forces in a shear flow with superimposed electric field   | DE |
| 0043 | 35 | P  | Liu*, Wei, Xiong, Sun, Yang, Tao, Wang   | Numerical simulation of flow field features in stirred tank by perturbed rigid-flexible impeller  | CN |
| 0045 | 32 | P  | Wang, Tan, Luo*  | Gas-liquid microflow for reaction process intensification   | CN |
| 0046 | 11 | L  | Weimann*, Boldrini, Gabrielli, Devendran, van der Velde, Kramer, Gazzani               | Decarbonization of the steel industry: interplay between electrification and carbon capture and storage   | NL |
| 0047 | 32 | P  | Du, Deng*, Zhang, Luo  | Process intensification of Beckmann rearrangement catalyzed by mixed-acids in a microreactor  | CN |
| 0048 | 31 | P  | Khelassi*  | Assessment of interaction and control of binary distillation column UOP3CC  | DZ |
| 0049 | 75 | L  | Zhanat, Gulzhan*, Manira, Almash, Asia   | Researches on phenol sorption from wastewater by using different sorbents   | KZ |
| 0050 | 21 | P  | Wang*, Yu, Guo, Wang   | Advances in coal gasification technology and gaseous hydrocarbon conversion technology of ECUST   | CN |
| 0051 | 13 | P  | Rai, Sinha*  | Complete mineralization of tannery wastewater using dimensionally stable anode and graphite felt cathode  | IN |
| 0052 | 26 | KL | Vijay, Tade*, Shao   | Fault identification in the solid oxide fuel cell stack: Classification based and hybrid approaches   | AU |
| 0053 | 33 | P  | Wei*, Wang, Wu, Yu   | Velocity distribution of the turbulent vertical falling film at high Reynolds number  | CN |
| 0054 | 81 | L  | Wojtalik*, Orciuch, Makowski   | Experimental and theoretical studies on the nucleation and growth kinetics of MoS2 nanoparticles obtain by chemical wet synthesis for obtaining a | PL |

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|      |    |    |   | high-quality product   |    |
| 0055 | 84 | L  | Petrik*, Szepesi, Jarmai  | Experimental and numerical investigation on the air side heat transfer of finned tubes   | HU |
| 0056 | 23 | L  | Barmina, Kolmickovs, Valdmanis*, Zaķe   | Improvement of biomass gasification/combustion characteristics using the microwave pre-treatment of biomass pellets  | LV |
| 0057 | 23 | L  | Besagni*, Croci   | Experimental study of pilot-scale PCM storage for solar assisted heat pumps  | IT |
| 0058 | 83 | L  | Grahl*, Rieger, Berndt, Sonntag, Borner, Herdegen                                     | Characterization and modelling of mass transport and reactions in a three phase system CO <sub>2</sub> , brine and carbonate rock particles under high pressure conditions | DE |
| 0059 | 83 | P  | Bensebia*, Kacel  | Liquid-liquid equilibrium data for ternary mixture of hexane + toluene + nonionic surfactant at 298.15K  | DZ |
| 0060 | 82 | P  | Bensebia*, Belabbes   | Potential use of non-ionic surfactant in the desulfurization of gas oil  | DZ |
| 0061 | 26 | L  | Dolai*, Kluson, Hejda, Stavarek   | Synthesis of g-C <sub>3</sub> N <sub>4</sub> for photo catalytic application in a microreactor platform  | CZ |
| 0063 | 84 | L  | Alzyod*, Charton  | A detailed population balance modelling of pulsed solvent extraction equipment using the entire turbulence spectrum range  | FR |
| 0064 | 66 | P  | Dmitrenko*, Liamin, Kuzminova, Penkova, Ermakov                                       | Development and study of novel green membrane based on sodium alginate modified by fullerene derivatives   | RU |
| 0065 | 32 | P  | Vasilev, Abiev*, Kumar  | Effect of circular pin-fins geometry and their arrangement on the pressure drop and heat transfer in microchannel heat sink  | RU |
| 0066 | 82 | L  | Keneni*, Bahiru, Marchetti  | Effects of different extraction solvents on the amount of oil extracted from Jatropha seeds and the potential of de-oiled seed residues as a heat provider                 | NO |
| 0067 | 33 | P  | Mohamed*, Benkreira   | Mitigation of paraffin wax in oil production facilities  | LY |
| 0068 | 24 | P  | Askarova, Safarik, Bolegenova, Nugymanova*, Maximov, Bolegenova, Bodykbaeva, Mamedova | Numerical modeling of heat and mass transfer processes of combustion chamber boiler BKZ-75 thermal power station of Kazakhstan   | KZ |
| 0069 | 33 | P  | Elbousiffi*, Mohamed  | Rheology: Tool for chemicals performance evaluation and selection  | LY |
| 0070 | 85 | KL | Craig*, Holmes  | Selective heat treatment of ores: Shaking up the economics of mineral recovery   | US |
| 0071 | 65 | P  | Ghobadi-Nejad*, Sadeghzadeh, Hejazi, Ghazvini, Yaghmaei                               | Studying immobilization of laccase from Trametes hirsuta on CMC coated magnetic nanoparticles  | IR |
| 0072 | 54 | P  | Keneni*, Hvoslef-Eide, Marchetti  | Biodiesel production from Jatropha oil using recyclable an anion-exchange resin: optimization of the process   | NO |
| 0073 | 54 | L  | Cimino*, Lisi   | CO <sub>2</sub> capture and methanation over alkali promoted Ru/Al <sub>2</sub> O <sub>3</sub> catalysts   | IT |
| 0074 | 21 | L  | Ahn*, Kim   | Optimal design of supply chain network for microalgae-based biodiesel production under uncertainty in carbon dioxide emission  | KR |
| 0076 | 26 | L  | Jay*, Chirwa, Tichapondwa   | Synthesis and characterisation of novel BiOCl-C <sub>3</sub> N <sub>4</sub> heterojunction visible   | ZA |

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|------|----|----|--|--|----|
|      |    |    |  | light induced photocatalyst prepared via ionic liquid-assisted solvent thermal route   |    |
| 0078 | 13 | P  | Belaiba, Hodaifa*  | Tertiary treatment of urban wastewater through Chlorella vulgaris growth. pH influence in kinetic growth and biochemical composition   | ES |
| 0079 | 84 | L  | Kelani*, Abdur Rakib, Al Musharfy                                  | Predictive model of delayed coker unit for studying variations in feed   | AE |
| 0080 | 35 | KL | Alopaeus*  | Modeling surfactant polydispersity in liquid-liquid dispersions with population balances   | FI |
| 0081 | 13 | L  | Russo*, Broccoli, Vitiello, Turco, Tesser, Iesce, Jung, Di Serio   | Adsorption and heterogeneous photodegradation for the removal of ibuprofen from water  | IT |
| 0082 | 35 | KL | Laupsien*, Le Men, Cockx, Line                                     | Bubble plume induced mixing: CFD versus experimental data  | FR |
| 0083 | 32 | L  | Petrazzuoli*, Rolland, Mekki-Berrada, Schuurman                    | Choosing the right packing in millimetric packed bed reactors under gas-solid conditions   | FR |
| 0084 | 12 | L  | Mondal, Samanta, Bandyopadhyay*                                    | Activated hindered amine solvent for less energy intensive and economic post - combustion carbon dioxide capture   | IN |
| 0085 | 33 | L  | Wang*  | An EMMS drag model for polydisperse gas-solid flow   | CN |
| 0086 | 65 | P  | Tewinkel*, Fieg  | Concept for the development and optimization of a submerged aerated fixed-bed reactor for biological treatment of high saline process wastewater   | DE |
| 0087 | 52 | L  | Ungerer*, Thurm, Garnweitner, Nirschl                              | Characterization of the dispersion stability of AZO nanocrystals using X-ray scattering  | DE |
| 0088 | 81 | L  | Russo, Tesser, Rossano, Vitiello, Turco, Salmi, Di Serio*          | Chromatographic reactor application to levulinic acid esterification   | IT |
| 0089 | 23 | P  | Arshanitsa*, Akishin, Andersone, Telysheva, Valdmaniss             | Effect of microwave pre-treatment on composition and thermal degradation characteristics of pre-treated lignocellulosic biomass  | LV |
| 0090 | 83 | L  | Felipe dos Santos*, Ducouso, Andre, Contamine, Cezac               | Experimental measurements of dioxide carbon solubility in aqueous Na2SO4 solutions at high temperatures (303 to 423 K) and pressures (1.5 to 20 MPa) using the potentiometric titration method | FR |
| 0091 | 85 | L  | Rouhollahi*, Mehrabani-Zeinabad, Alemrajebi                        | Experimental study of electro-hydrodynamic drying of tomato and process optimization   | IR |
| 0092 | 75 | L  | Garcia-Hernandez*, Elmoukrie, Leveneur, Gourich, Vernieres-Hassimi | Global sensitivity analysis for thermal risk parameters: application to cottonseed oil epoxidation   | FR |
| 0093 | 54 | P  | Aghamammadova, Nagieva, Gasanova, Nagiev*                          | Identification of coherently synchronized character of cyclohexane biomimetic oxidation by hydrogen peroxide   | AZ |
| 0094 | 52 | L  | Schaldach*, Schroder, Herdegen                                     | Identification of empirical correlations of the properties of bio-based formed (activated) carbons during their production   | DE |
| 0095 | 81 | L  | Russo, Mastroianni, Di Serio, Salmi, Tesser*                       | Intraparticle modelling of non-uniform active phase distribution catalyst  | IT |
| 0096 | 23 | P  | Gargalo*, Carvalho, Gernaey  | Optimal design and planning of a solid waste to bioenergy supply chain: the case of Denmark  | DK |
| 0097 | 31 | L  | Grechushkin*, Lvov   | Probabilistic-statistical model of ion-exchange  | RU |

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| 0098 | 23 | L | Kheloufi*, Bobocioiu, Kefaifi, Medjahed, Kerkar   | Quartz sandstone enrichment in combined technologies   | DZ |
| 0099 | 53 | P | Malikova, Ali-zadeh, Nagiev*  | Semiconductor electrodes for biomimetic sensors  | AZ |
| 0100 | 54 | P | Psenicka*, Bringlerova, Vrablik   | Testing of alternative raw materials on a unit simulating FCC technology   | CZ |
| 0101 | 91 | P | Askarova, Safarik, Bolegenova, Maximov, Nugymanova*, Bolegenova, Tuyakbaev, Baidullaeva | The use of plasma activation of pulverized coal flow to reduce emissions of harmful substances during the combustion of high-ash coal at Kazakhstan's thermal power plants | KZ |
| 0102 | 91 | P | Stipek*, Skocilas   | Viscoelastic properties of collagen dough  | CZ |
| 0103 | 35 | L | Kapranova*, Bahaeva, Stenko, Lebedev, Tarshis   | General approach to stochastic modeling of mixing solid dispersed components in rarefied flows by the energy method  | RU |
| 0104 | 35 | P | Kapranova*, Stenko, Bahaeva, Lebedev, Cherpitsky  | The effect of granulometric composition of bulk materials on the mixing process by a rotary spray  | RU |
| 0105 | 33 | L | Kapranova*, Lebedev, Melzer, Neklyudov, Brykalov  | Stochastic study of factors for increasing the capacity of the control valve taking into account hydrodynamic cavitation   | RU |
| 0106 | 67 | P | Dehghani Mohammad Abadi*, Ghobadi Nejad, Yaghmaei                                       | Bioremediation of soil contaminated by polychlorinated biphenyls (PCBs)  | IR |
| 0107 | 31 | P | Choi*, Kwon, An, Roh, Moon, Kim   | Application of Kalman filter on mixed butane splitting column for mass flow data reconciliation  | KR |
| 0108 | 31 | P | Kozhevnikov*, Chibiryaev, Martyanov   | Continuous-flow methods for dissolution of silica-containing minerals by supercritical aliphatic alcohols producing tetraalkyl orthosilicates                              | RU |
| 0109 | 81 | L | Golman*, Andreev, Skrzypacz   | Dead-core solutions for slightly non-isothermal diffusion-reaction problems  | KZ |
| 0110 | 13 | P | Mori*, Mzinyati, Tsuchia  | Degradation of methylene blue in aqueous solution by titania particles deposited on screen using electrophoretic deposition  | JP |
| 0111 | 91 | P | Strouhal*, Jurena, Jegla  | Development of an innovative approach to the study and modelling of flue gas fouling of heat transfer surfaces by solid pollutants   | CZ |
| 0112 | 13 | P | Tabana*, Labuschagne, Tichapondwa   | Magnesium-aluminium based layered double hydroxide clays infused with transition metals for photocatalytic degradation of phenol   | ZA |
| 0113 | 81 | P | Liu*, Chen, Yue   | Mass transfer characterization during liquid-liquid extraction under slug flow in microreactors  | NL |
| 0114 | 54 | P | Begimova*, Tungatarova  | Morphology and structure of active centers and particles of iron-containing catalysts with urea and glycine  | KZ |
| 0115 | 66 | L | Ma, Chen*   | Organic solvent nanofiltration via a continuous film of UiO-66-type metal-organic framework on polymeric support   | SG |
| 0116 | 31 | P | An*, Roh, Park, Kim, Kim, Cho   | Process development and techno-economic analysis of lactic acid purification process   | KR |
| 0117 | 82 | L | Rasmussen*, Nielsen, Mansouri, Zhang, Abildskov, Huusom                                 | Reactive cyclic distillation   | DK |
| 0118 | 11 | L | Darton*, Yang   | Removing carbon dioxide from the air to stabilise the climate  | UK |
| 0119 | 91 | P | Lange, Fieg*  | Shape optimization of additively manufactured structured packings for  | DE |

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|------|----|----|---|---|----|
|      |    |    |   | distillation columns  |    |
| 0120 | 84 | L  | Yamada*   | Simulation of CO <sub>2</sub> absorption in aqueous piperazine solutions using transition state theory  | JP |
| 0121 | 84 | L  | Kuehlbach*, Baganz, Hass                            | Towards a mathematical model for tumor cell extravasation   | DE |
| 0122 | 33 | L  | Kuehlbach*, Mueller, Baganz, Hass                   | Tumor cell extravasation in a microfluidic device   | DE |
| 0123 | 11 | L  | Aina*, Du Plessis, Mjimba, Brink                    | Waste valorization: Effect of membrane separation on the production of calcium oxide from eggshells via calcination   | ZA |
| 0124 | 31 | L  | Basan*, Coccola, De Prada, Mendez                   | A MILP-based rolling horizon framework for reactive scheduling in power-intensive processes: a case of air separation units                                   | AR |
| 0125 | 33 | L  | Krokhina*, Lvov, Fatova                             | Analysis of mechanisms of fish-hook effect occurrence in small-size hydrocyclones classifiers   | RU |
| 0126 | 43 | L  | Appl*, Fittkau, Moser, Hass                         | Comparison of fixed feeding profiles, RQ feedback control and adaptive model-based control for aerobic <i>Saccharomyces cerevisiae</i> fed-batch cultivations | DE |
| 0127 | 54 | P  | Jaklova*, Vrablik                                   | Comparison of the processes of deactivation   | CZ |
| 0128 | 31 | P  | Lebedev*, Denisova, Menshutina                      | Continuous supercritical drying process modeling  | RU |
| 0129 | 52 | KL | Soto*, Verna, Rasmuson                              | Crystal growth kinetics of Tolbutamide in organic solvents  | IE |
| 0130 | 81 | P  | Golman, Andreev, Skrzypacz*                         | Dead-core and non-dead-core solutions for diffusion-reaction problems with power-law kinetics   | KZ |
| 0131 | 54 | P  | Lu*, Grenman, Estel, Kumar, Leveneur                | Determination of the heat capacity of selected catalysts and catalyst supports  | FR |
| 0132 | 65 | L  | Espinosa-Pardo*, Subra-Paternault, Harscoat-Schiavo | Development of a biorefinery scheme from corn germ: oil, protein and final residue properties   | FR |
| 0133 | 84 | L  | Portillo*, Ateka, Bilbao, Ereña, Aguayo             | Direct olefins production from CO <sub>2</sub> using In <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> /SAPO-34 bifunctional catalyst                          | ES |
| 0134 | 82 | L  | Kallai*, Szepesi, Mizsey                            | Dynamic simulation model and controlling of a rectification column  | HU |
| 0135 | 22 | P  | Cheng*, Yu, Lee                                     | Dynamic simulation of the styrene-acrylonitrile (SAN) co-polymerization process under emergent situations   | TW |
| 0136 | 54 | L  | De Paz Carmona*, Tisler, Svobodova, Vondrova        | Effect of phosphorus addition on sulfur-free mono- and bi-metallic carbide catalysts for the hydrotreating of middle distillates and vegetable oils           | CZ |
| 0137 | 56 | P  | Matousek*, Jisa, Cerny                              | Effect of polyphosphoric acid on properties of bituminous binders with depolymerised PE wax   | CZ |
| 0138 | 52 | L  | Diaz*, Charton, Ode, Doreau, Puel                   | Experimental assessment of the influence of particle properties in filtration. Development and validation of a pilot for nuclear fuel fabrication             | FR |
| 0139 | 52 | L  | Schutz*, Aschl                                      | High and low temperature ring shear powder testing  | AT |
| 0140 | 23 | P  | Silva*, Peixe                                       | Improvement of biogas burning in a sugar-ethanol plant  | BR |
| 0141 | 84 | P  | Pletnev*, Gozhimov, Polosin, Liventsov, Feygin      | Integration of KT-NIMFA and ISS CNFC software systems for solving the problems of visualization of the radiochemical industry technological processes         | RU |
| 0142 | 75 | L  | Vrablik*, Hidalgo, Cerny                            | Marine fuels stability as a challenge for 2020+   | CZ |



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|------|----|----|---|--|----|
| 0143 | 43 | L  | Moser*, Moller, Kuchemuller, Deppe, Hernandez Rodriguez, Gassenmeier, Ifrim, Frahm, Portner, Hass | Model-assisted design of experiments - concept, software and applications  | DE |
| 0144 | 84 | L  | Moser*, Appl, Portner, Hass   | Modelling and optimizing small-scale parallelized bioreactors as a tool for scale-up of biotechnological processes                                 | DE |
| 0145 | 65 | L  | Appl*, Hass   | Modelling and simulation of enzymatic starch hydrolysis and enzymatic proteolysis for the development and test of control strategies               | DE |
| 0146 | 83 | L  | Coetzee*, Knoetze, Schwarz  | Numerical modelling of high pressure phase behaviour data using artificial neural networks   | ZA |
| 0147 | 33 | L  | Hallac*, Bayly, Muller, He, MacLeod   | Predicting the breakage of elongated particles in agitated pharmaceutical dryers   | UK |
| 0148 | 23 | L  | Lu*, Lagerquist, Eklund, Leveneur, Estel, Grenman   | Reductive catalytic fractionation of semi-industrial wood based lignin   | FR |
| 0149 | 67 | P  | Wieczorek*, Turala  | Research on the purification of air stream contaminated with xylene using a biotrickling filter with bed of expanded clay                          | PL |
| 0150 | 81 | KL | Burger*, Kraushaar-Czarnetzki   | Selective oxidation of methacrolein to methacrylic acid: Elucidating options for improvement of the reactor performance                            | DE |
| 0151 | 84 | L  | Fluch*, Brunner, Gorter, Wilk, Ponweiser, Klug  | The development of a holistic optimisation approach for the operation and design of hybrid energy supply system in industry                        | AT |
| 0152 | 81 | L  | Øyen*, Haug-Warberg, Jakobsen, Solsvik  | The differential Gibbs and Helmholtz reactors for ideal and non-ideal gases and selected applications  | NO |
| 0153 | 33 | P  | Svetlov, Abiev*, Shevchenko, Ilin   | The effect of surfactants on the synthesis of polymer microspheres in a microfluidic chip  | RU |
| 0154 | 67 | P  | Avdeenkova*, Makarova, Nikulina, Tsirulnikova, Pishaeva   | The study of directed phytoextraction of mercury with various chelating complexes  | RU |
| 0155 | 33 | L  | Khalili*, Vadseth, Kumar, Bruheim, Solsvik  | Unify knowledge from biotechnology and reactor technology in a study of fluid flows with aerobic cell metabolism                                   | NO |
| 0156 | 65 | L  | Garcia-Mendoza*, Espinosa-Pardo, Savoie, Harscoat-Schiavo, Subra-Paternault                       | Valorisation of walnut press-cake by optimizing the phenolic extraction  | FR |
| 0157 | 26 | L  | Gomez Llanos*, Ramos Huerta, Ruiz Martinez, Morales Perez, Castillo Araiza                        | Assessment of iron doping effect on the structural and optical properties of titanium dioxide: generation of reactive species and photodegradation | MX |
| 0158 | 65 | P  | Pinto*, Ribeiro, Giordano, Farinas  | Attenuation of the negative impact of inhibitors on the production of second generation ethanol in biorefineries by washing process                | BR |
| 0159 | 63 | P  | Menden*, Hass   | Degradation and valorization of post-consumer textile fiber materials  | DE |
| 0160 | 25 | L  | Umar, Aboelazayem, Saha*  | Enhancing oxidation stability of biodiesel produced from waste cooking oil via supercritical methanolysis  | UK |
| 0161 | 67 | P  | Gomez Ceballos*, Zapata   | Evaluation of removal of pharmaceutically active compounds by  | CO |



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|------|----|---|--|--|----|
|      |    |   | Benabithe, Lara Martin, Velasquez Jimenez, Quintana Marin  | hyperbranched lignin polymers  |    |
| 0162 | 21 | L | Silva*, João, Silva  | Excess-heat recovery and upgrade: Chemical heat pumps for a lower carbon footprint   | PT |
| 0163 | 33 | L | La Forgia*, Herø, Solsvik, Jakobsen  | Experimental investigation and visual characterization of single particle breakup in turbulent flow conditions   | NO |
| 0164 | 11 | L | Olaniyan, Saha*  | Heterogeneous catalytic synthesis of chloromethyl ethylene carbonate from carbon dioxide and epichlorohydrin using a novel Zr/ZIF-8 catalyst   | UK |
| 0165 | 15 | L | Svobodova*   | Industrial scale co-processing of used cooking oil in a gas oil hydrotreating unit   | CZ |
| 0166 | 33 | L | Fathi, Saadatmand*, Parsa Yeganeh  | Integrating reciprocating mixing with filter paper in a centrifugal microfluidic system for DNA extraction   | IR |
| 0167 | 84 | L | George*, Bockelmann, Schmalhorst, Gerstle, Beton, Torkuhl, Lindermeir, Wehinger                                    | Optimal design of metal foam catalyst carriers by detailed CFD   | DE |
| 0169 | 26 | P | Moja*, Kubeheka, Tichapondwa, Chirwa   | Photocatalytic degradation of phenol using visible light activated Bi <sub>2</sub> S <sub>3</sub> /AgX (X= Cl & Br) heterojunction catalysts   | ZA |
| 0170 | 21 | L | Bojas*, Ditl, Sulc   | Reduction of CO <sub>2</sub> emissions produced by fossil fuel burning using pressure swing adsorption   | CZ |
| 0171 | 35 | L | Moon*, Pang, Adema, van der Stel, Schott   | Segregation of multi-components mixtures in blast furnace: a review  | NL |
| 0172 | 54 | L | Papageridis, Charisiou, Bakagianni, Douvartzides, Goula*   | Selective catalytic deoxygenation of palm oil to renewable diesel over Ni supported on Al <sub>2</sub> O <sub>3</sub> and La <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> catalysts: An investigation of process parameters | GR |
| 0173 | 82 | P | Gutierrez-Oppe*, Salas-Chavez, Huillca-Mamani, Pacheco-Meza, Hanco-Mullisaca, Barraza-Llallacachi, Cardenas-Malaga | Study of glycerin dehydration using ethyl lactate as a biodegradable solvent   | PE |
| 0174 | 33 | L | Romanov, Kasparova, Vobecka, Slouka, Pribyl*   | Synthesis of antibiotics and optically active compounds in multi-phase microfluidic devices  | CZ |
| 0175 | 67 | L | Makarova*, Fedoseev  | Technology for the immobilization of mercury in solid waste, taking into account the principles of green chemistry   | RU |
| 0176 | 13 | L | Yenkie, Pimentel, Orosz*, Cabezas, Friedler  | The P-graph approach for systematic synthesis of wastewater treatment networks   | HU |
| 0177 | 83 | P | Sarmad*, Nikjoo, Mikkola   | Three-component amine-based deep eutectic solvents (DESSs) for CO <sub>2</sub> capture: measurements and modelling   | SE |
| 0178 | 33 | L | Beard*, Penin, Alix  | Towards 3D CFD simulation of two-phase flow in rotating packed bed (RPB) for CO <sub>2</sub> capture   | FR |
| 0179 | 12 | L | Shukla*, Mikkola   | Unusual temperature-promoted carbon dioxide capture in deep-eutectic solvents: the synergetic interactions   | SE |

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| 0180 | 23 | L | Beard*, Noel, Balz, Noel, Teixeira  | Validation of CFD simulation of thermal energy storage (TES) in two pilot scale packed-beds of gravels  | FR |
| 0181 | 81 | P | Faria*, Miguel, Rodrigues, Madeira  | A membrane reactor for the methanation of CO <sub>2</sub> : Modelling and simulation  | PT |
| 0182 | 83 | L | Nichita*  | A new phase equilibrium calculation method at volume, temperature and moles specifications  | FR |
| 0183 | 81 | P | Dorantes-Landa*, Hernandez-Aguirre, Hernandez-Martinez, Castillo-Araiza                         | A RANS based pseudo-continuous model to describe hydrodynamics in a packed bed with low tube-to-particle diameter ratio                                 | MX |
| 0184 | 84 | L | Pudi*, Karcz, Andersson, Mansouri   | A systematic multiscale modeling framework for liquid-liquid phase transfer catalysis   | DK |
| 0185 | 52 | L | Faria, Trujillano, Rives, Miguel*, Rodrigues, Madeira   | Alkaline metal promoted (Na, Cs and K) hydrotalcites for high temperature CO <sub>2</sub> capture from flue gas in cyclic adsorption processes          | PT |
| 0186 | 42 | L | Li*, Lan, Zhang, Guo  | Application of hybrid modelling in process optimization of thermal cracking of hydrocarbon  | CN |
| 0187 | 83 | L | Ayuso*, Navarro, Larriba, Delgado Mellado, Garcia-Somoza, Garcia, Rodriguez, Coutinho, Carvalho | BTX/alkanes separation by extractive distillation with tricyanomethanide-based ionic liquids. Experimental and CPA EoS modeling                         | ES |
| 0188 | 33 | L | Mezui, Obligado*, Cartellier  | Bubble columns operated in the heterogeneous regime: towards a new understanding of their hydrodynamics   | FR |
| 0189 | 52 | P | Lokhat*, Carsky   | Carbon foam supported nickel and nickel oxide catalysts for hydrogenation and adsorption  | ZA |
| 0190 | 81 | L | Seyfeli, Varisli*   | Catalytic activity of supported nickel catalyst in microwave focused reactor system: mesoporous carbon either as a support or as a microwave absorber   | TR |
| 0191 | 33 | P | Kouadri Moustefai*, Boudjema, Bensebia  | CFD simulations of carbon monoxide conversion in a micro-channel  | DZ |
| 0192 | 11 | L | Siakavelas, Charisiou, Polychronopoulou, Goula*   | CO <sub>2</sub> methanation over Ni/CeO <sub>2</sub> modified with Pr <sub>2</sub> O <sub>3</sub> : Effect of oxygen vacancies on catalytic performance | GR |
| 0193 | 13 | L | Tshemese*, Tichapondwa  | Competitive adsorption of chromium VI and phenol from wastewater onto exfoliated graphite   | ZA |
| 0194 | 84 | P | Shcherban, Grishina, Lyubimenko, Godunova*  | Computer modeling of interactions of antiturbulent additive to high viscosity oil products with paraffins and asphaltenes                               | RU |
| 0195 | 68 | P | Hojnik Podrepsek, Knez, Leitgeb*  | Control of enzyme activity in food products after supercritical carbon dioxide treatment  | SI |
| 0196 | 54 | P | Zbuzkova*, Jaklova, Vrablik, Cerny, Bringlerova   | Co-processing of alternative and standard feedstocks in hydrotreating units   | CZ |
| 0197 | 53 | L | Khalighi, Saadatmand*   | Characterization of bio-printed thick scaffold for application in heart tissue engineering  | IR |
| 0198 | 84 | P | Dai*  | Dynamic simulation of pulverized coal gasifier  | CN |
| 0199 | 23 | L | Lowe*, Wong, Chorazewski, Tricoli,  | Effect of surface entropy on thermal effects of non-wetting liquid intrusion  | PL |

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| 0200 | 55 | P  | Pridal*, Pridal, Cejka                                    | Effective coating of stainless steel surfaces by photocatalytic functional layers  | CZ |
| 0201 | 84 | P  | Bensebia*, Bensebia, Kouadri Moustefai                    | Estimation of infinite-dilution diffusivity for dense and supercritical fluids by different approaches : determinations and analysis | DZ |
| 0202 | 31 | L  | Lehuen*, Delenne, Sadoudi, Duri, Ruiz                     | Evaluation of power dissipation in a granular bed disturbed by an intruder a tool to design kneading operations                      | FR |
| 0203 | 31 | L  | Durr*, Przywara, Antos, Kienle                            | Experimental analysis and modelling of product formation in continuous pan granulators   | DE |
| 0204 | 33 | L  | Kure*, Jakobsen, Solsvik                                  | Experimental investigation of mass transfer from a single bubble rising in a stagnant liquid   | NO |
| 0205 | 14 | L  | Bukamba Tshanga, Malumba Kamba, Van Engenland, Debaste*   | Experimental study and modelling of the drying kinetics and sorption isotherm of Cirina forda caterpillar                            | BE |
| 0206 | 56 | L  | Chi, Adiche*  | Fabrication of superhydrophobic surfaces on thermoplastic polymer films  | DE |
| 0207 | 67 | L  | Garbujo*, Lanza, Rohart, Lahougue, Gaudry, Ostuni, Biasi  | Fe-FER and Fe-ZSM5 catalysts for NOx/N2O abatement: the best industrial solution   | CH |
| 0208 | 81 | P  | Akca, Varisli*  | Formation metal carbides during ammonia decomposition reaction under microwave energy and their effects on the activity              | TR |
| 0209 | 32 | L  | Yue*  | Gas-liquid mass transfer in slug flow microreactors: mechanistic insights and its effect on reaction performance                     | NL |
| 0210 | 84 | KL | Dixon*, O'Malley, Willis                                  | Identification of the structure and parameters of kinetic models using Mixed Integer Linear Programming                              | UK |
| 0211 | 55 | P  | Vasic*, Knez, Leitgeb                                     | Immobilization of alcohol dehydrogenase onto carboxymethyl dextran coated magnetic nanoparticles via epoxy cross-linking             | SI |
| 0212 | 75 | L  | Godunova, Grishina, Masanov*                              | Impact assessment of surfactants on the reaction rate of liquids for intensification of oil recovery with the carbonate rock surface | RU |
| 0213 | 35 | L  | Celan*, Cosic, Kuzmanic                                   | Impact of simultaneous application of mechanical stirring and ultrasound irradiation on nucleation kinetics of borax decahydrate     | HR |
| 0215 | 52 | L  | Saberi*, Alamdari, Rasoolzadeh, Mohammadi                 | Insights into kinetic inhibition effects of MEG, PVP and L-tyrosine on natural gas hydrate formation                                 | IR |
| 0216 | 32 | L  | Gojun*, Salic, Zelic                                      | Integrated microsystem for biodiesel production  | HR |
| 0217 | 33 | L  | Kossov, Fedorenko*, Asembaeva, Mukamedenkyzy, Zhusanbaeva | Intensification of the separation of isothermal ternary gas mixtures containing carbon dioxide in the diffusion-convective mode      | KZ |
| 0218 | 35 | L  | Brito*, Fonte, Santos                                     | Mixing of liquids with dissimilar viscosities in T-Jets  | PT |
| 0219 | 84 | P  | Pletnev*, Gozhimov, Polosin, Liventsov, Goryunov, Feigin  | Modeling of crystal dissolving in a storage container of a linear crystallizer   | RU |
| 0220 | 81 | P  | Nemec*, Koci  | Modeling of internal transport limitation in catalytic particulate filter  | CZ |
| 0221 | 75 | P  | Mikaczo*, Szepesi, Simenalvi                              | Modelling of propane explosion venting in case of various vent duct geometries   | HU |
| 0222 | 84 | L  | Zhang*, Lan, Shi, Gao                                     | Multi-scale modelling method of chemical process based on EMD-MRMS   | CN |

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|------|----|----|--|---|----|
| 0223 | 83 | P  | Saberi*, Alamdari, Shariati, Mohammadi                           | Natural gas hydrate equilibrium condition in presence of MEG aqueous solution : experimental measurement and thermodynamic modeling   | IR |
| 0224 | 11 | L  | Kumar Chaudhary*, Deo  | Ni-Co modified Al <sub>2</sub> O <sub>3</sub> catalyst for O <sub>2</sub> -coupled dry reforming of methane   | IN |
| 0225 | 32 | P  | Chaouche*, Kouadri Moustefai, Bensebia, Sadi                     | Numerical investigation of phenol nitration in continues flow microreactor  | DZ |
| 0226 | 84 | P  | Lebedev*, Menshutina   | Numerical simulation of submicron particles production via rapid expansion of supercritical solutions and ultrasonic dispersion   | RU |
| 0227 | 65 | L  | Mountraki*, Hsieh, Ambye-Jensen                                  | On the systematic modular design of real-life multiproduct biorefineries  | DK |
| 0228 | 72 | L  | Vermorel*, Stepanek  | Opportunities for students and young researchers to boost their careers through European Research Council projects  | BE |
| 0229 | 12 | L  | Castro-Amoedo*, Santecchia, Kantor, Casquilho, Marechal          | Optimization of waste management systems: key for CO <sub>2</sub> mitigation  | CH |
| 0230 | 12 | KL | Voskov*, De Hoop   | Parametrization approach for reactive flow coupled with thermodynamic equilibria  | NL |
| 0231 | 67 | L  | Turingan, Singson, Melchor, Alorro, Beltran, Orbecido*           | Passive treatment of acid mine drainage using low grade nickel ore and other alkaline generating materials  | PH |
| 0232 | 85 | L  | Siakavelas, Charisiou, Goula*                                    | Performance of commercial molecular sieve for separation of C <sub>2</sub> H <sub>4</sub> , C <sub>2</sub> H <sub>6</sub> , CO <sub>2</sub> , CO and CH <sub>4</sub> by adsorption – desorption process; dynamic adsorption – desorption measurements | GR |
| 0233 | 44 | L  | Pridal*  | Possibilities of treatment with modern experimental drugs in the Czech Republic and abroad  | CZ |
| 0234 | 54 | P  | Blazek, Placha*, Koci, Svoboda, Novak, York                      | Preparation and microstructure characterization of washcoated catalytic monolith filters  | CZ |
| 0235 | 54 | P  | Iida*, Tatematsu, Okumura  | Preparation of CaWO <sub>4</sub> catalyst using an in-liquid impinging stream micro-reactor   | JP |
| 0236 | 31 | L  | Brito*, Sanchez-Salvador, Sousa, Monte, Manrique, Blanco, Santos | Production of emulsions in continuous impinging jets mixers for the food industry   | PT |
| 0237 | 55 | P  | Spasic*, Manojlovic, Jovanovic                                   | Quantum aspects of electrocoalescence process   | RS |
| 0238 | 85 | L  | Marhaenia*, Charoensaeng, Kitiyanan, Suriyapraphadilok           | Reduction of surfactant adsorption by combining alkaline and nanoparticles injection in enhanced oil recovery process   | TH |
| 0239 | 13 | L  | Dires*, Saroha   | Removal of reactive orange 4 dye from synthetic solution using electrocoagulation   | IN |
| 0240 | 21 | L  | Axon, Darton*  | Risks in fuel supply chains: insights into long-term energy security  | UK |
| 0241 | 84 | P  | Jisa*, Cerny   | Simple empirical model for prediction of visbreaking conversion and product yields  | CZ |
| 0242 | 52 | P  | Soto*, Heffernan, Hodnett, Rasmuson                              | Study of the crystal growth kinetics of Curcumin form I in isopropanol  | IE |
| 0243 | 33 | L  | Makwashi, Zhao*  | The effect of pipe curvature on wax depositional behaviour: experimental results vs OLGA simulation data  | UK |
| 0244 | 32 | L  | Dewes*, Van Gerven   | Ultrasound-assisted crystallization of zeolite A  | BE |

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| 0245 | 55 | P | Tatlier*  | Water recovery from atmospheric air by using zeolite coatings directly crystallized on metal surfaces  | TR |
| 0246 | 81 | P | Platosova*, Rusin   | Control of digestion with dissolved hydrogen   | CZ |
| 0247 | 54 | L | Vela Diaz, Lezcano, Trueba*, Palos, Azkoiti, Gutierrez                            | Tuning the operating conditions in the hydrocracking of a blend of HDPE and VGO to promote the formation of automotive-fuel                        | ES |
| 0248 | 67 | P | Bezza*, Chirwa  | Adsorptive removal of pentavalent arsenic (V) from contaminated water using microbial surfactant stabilized zero valent iron nanoparticles (nZVIs) | ZA |
| 0249 | 35 | L | Wojtas*, Krzosa, Adamek, Orciuch, Makowski  | Application of population balance to modelling particle breakdown in batch homogenizers  | PL |
| 0250 | 84 | L | Placha*, Koci, Isoz, Sourek, Hlavaty, Price, Thompsett                            | CFD model of filtration in catalytic particulate filters   | CZ |
| 0251 | 14 | L | Petzold*, Cochachin, Moreno, Orellana-Palma                                       | Concentration of whey by centrifugal freeze crystallization  | CL |
| 0252 | 63 | P | Meriño*, Ortega, Martinez, Albis  | Evaluation of energetic potential of coconut (cocos nucifera) and mayze (zea mays) agroindustrial waste  | CO |
| 0253 | 81 | P | Moreno-Barrueta, Morales-Perez, Ruiz-Martinez, Alvarado-Camacho, Castillo-Araiza* | Evaluation of the dynamics of the oxidative dehydrogenation of ethane over a NiSnO based catalyst  | MX |
| 0254 | 35 | L | Martinez-de Jesus*, Ramirez-Muñoz, Angel-Cuapio                                   | CFD study of hydrodynamic performance induced by grooved high-shear impellers in Newtonian and shear-thinning fluids                               | MX |
| 0255 | 33 | P | Kouadri Moustefai*, Bensebia, Assal, Della  | Hydrodynamic study of inverse gas-liquid-solid fluidized bed: CFD analysis   | DZ |
| 0256 | 61 | P | Xiangwei, Perez-Moya*, Graells, Miralles-Cuevas, Cabrera-Reina                    | Improving photo-Fenton process through hydrogen peroxide dosage based on dissolved oxygen monitoring   | ES |
| 0257 | 52 | L | Tada, Buck, Thomeo*   | Mass transfer in static horizontal drums partially filled with particles   | BR |
| 0258 | 33 | L | Vyazmin*, Pokusaev, Nekrasov, Zakharov, Khramtsov, Shumova                        | Mass transfer to the volume of the gel from the system of artificial microchannels   | RU |
| 0259 | 84 | L | Eppinger*, Aglave   | Packed bed reactors: from particle-resolved to multi-tubular reactor simulation  | DE |
| 0260 | 63 | L | Esteves*, Kessas, Kara, Maheut, Hemati  | Parametric study of biomass and waste steam gasification in a bubbling fluidized bed between 700 and 850°C   | FR |
| 0261 | 15 | L | Sepulveda*, Blanco, Polo  | Trends analysis and review of the scientific structure of sustainable production   | CO |
| 0262 | 67 | P | Abreu, Fabiano*   | Use of the synthetic clay modified hydrotalcite (CuFe, CuMgAl and FeMgAl) adsorbing diclofenac sodium in aqueous solution                          | BR |
| 0263 | 54 | L | Vajglova*, Kumar, Peurla, Hupa, Semikin, Sladkovskiy, Murzin                      | Effect of Pt location in Beta-Bindzil extrudates on their catalytic stability in hydro-isomerization of straight chain paraffinic hydrocarbons     | FI |
| 0264 | 33 | L | Norajsha*, Shiau, Suriyapraphadilok, Charoensaeng                                 | Phase behaviors and interfacial property of nanoparticles assisted microemulsions using carboxylate extended-surfactant system                     | TH |
| 0265 | 32 | L | Harmsen*, Verkerk   | Breakthrough in process intensification - Part I   | NL |

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|------|----|----|--|---|----|
| 0266 | 82 | L  | Vagi*, Kolay Kovacs, Jinsong, Szekely                                  | Extraction of bioactives from white mulberry ( <i>Morus alba</i> L.) seeds, an industrial by-product  | HU |
| 0267 | 65 | P  | Zhang, Zhang*  | Green modification and synthesis of low pour point vegetable-based lubricants in solvent-free system  | CN |
| 0268 | 83 | P  | Agarwal*, Mondal, Samanta  | Measurement of vapor-liquid equilibrium (VLE) and e-NRTL model development of CO <sub>2</sub> absorption in aqueous dipropylenetriamine (DPTA)        | IN |
| 0269 | 31 | L  | Ribeiro*, Manrique, Barreiro, Lopes, Dias                              | Continuous production of Pickering emulsions using a novel static mixer – NETmix: comparison with batch mode  | PT |
| 0270 | 85 | L  | Peng*, Huang, Fang   | Engineering dual bed hydrocracking catalyst employing used catalysts: Enhanced high-octane gasoline generation from light circle oil                  | CN |
| 0271 | 84 | P  | Nafees*, Abdul Rasid   | Kinetic approaches for simulation of SOFC fuel cell system  | MY |
| 0272 | 32 | L  | Wu*  | Micro/nanostructured surfaces tailored for boiling heat transfer intensification  | SE |
| 0273 | 23 | L  | Nafees*, Abdul Rasid   | Modeling and simulation of waste gas based SOFC fuel cell system  | MY |
| 0274 | 32 | L  | Moreira*, Manrique, Martins, Rodrigues, Lopes, Dias                    | The NETmix technology, a novel approach for continuous production of melamine based microcapsules for textile application                             | PT |
| 0275 | 23 | P  | de Jesus*, Moreira, Maciel Filho                                       | Current status in industrial production of microalgae biodiesel: present or future?   | BR |
| 0276 | 66 | P  | Dmitrenko*, Penkova, Plisko  | Membranes with hierarchical structure: development and investigation  | RU |
| 0277 | 13 | P  | Quispe*, Ivanovic  | Recovery and recycle of water from closed-loop hydroponic purge to increase the water efficiency and reduce its water footprint in the Atacama Desert | CL |
| 0278 | 82 | L  | Yucelen*, Vagi, Kolay-Kovacs, Szekely, Guvenc                          | Investigation of obtaining valuable components from ‘Katırbaşı’ pomegranate ( <i>Punica granatum</i> L.) wastes by different extraction methods       | HU |
| 0279 | 66 | KL | Gardeno, Bousa, Lanc, Vopicka, Ashtiani, Cihal, Klepic, Sofer, Friess* | Ultrapermearable composite membranes based on carbon nanotubes and graphene oxide for efficient H <sub>2</sub> /CO <sub>2</sub> separation            | CZ |
| 0280 | 84 | P  | Bourahla*, Kouadri Moustefai   | Adsorption of water on NH <sub>4</sub> NO <sub>3</sub> and (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> : A first-principles study                 | DZ |
| 0281 | 81 | P  | Laredo*, Perez-Romo, Vega-Merino                                       | Effect of the experimental conditions in the selective hydrogenation of Light Cycle Oil for BTEX production   | MX |
| 0282 | 44 | L  | Alfano*, Benassi, Gaspari, Cottini, Di Renzo, Di Maio                  | Analysis of fluid flow and particle dispersion in simplified Dry Powder Inhalers (DPI) through CFD-DEM simulations                                    | IT |
| 0283 | 82 | P  | Vagi*, Kolay Kovacs, Tolner, Marton, Molnar, Molnar, Szekely           | Optimization of extraction of bioactives from sea buckthorn ( <i>Hippophae rhamnoides</i> L.) woody waste   | HU |
| 0284 | 67 | L  | Martin-Marroquin*, Garrrote, Hidalgo, Corona                           | A new system based in heterotrophic microalgae for the treatment of effluents generated by the fruit and vegetable processing industry                | ES |
| 0285 | 15 | L  | Hidalgo*, Sanz-Bedate, de la Fuente, Buhigas                           | Sustainable mobility model based on empirical data to manage traffic emissions  | ES |
| 0286 | 85 | L  | Guler, Varisli*  | Application of microwave focused reactor system to ammonia decomposition reaction using carbon fiber supported monometallic Fe and                    | TR |



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|      |    |    |   | Mo catalysts  |    |
| 0287 | 84 | L  | Grohn*, Oesau, Heinrich, Antonyuk                                     | Investigation of the contact behavior of particles during coating in a fluidized bed  | DE |
| 0288 | 53 | KL | Tokarova*, Kaspar   | Sustainable antimicrobial systems inspired by nature  | CZ |
| 0289 | 26 | KL | Hoffmann*, Cid  | Onsite photovoltaic-powered wastewater treatment for use in the developing world: a design concept to full-scale manufacturing in five years          | US |
| 0290 | 67 | P  | Hidalgo*, Martin-Marroquin, Corona, Lopez                             | Municipal waste management model that encourage recycling in remote areas   | ES |
| 0291 | 82 | P  | Lehrich, Adiche*  | Cost-optimal design of the distillation process in the Andrussow process for the production of hydrogen cyanide                                       | DE |
| 0292 | 85 | L  | Jirasek*, Lukes   | Oxidation, chlorination and nitration ability of plasma-chemical reactive liquids   | CZ |
| 0293 | 32 | KL | Harmsen, Verkerk*   | Breakthrough in process intensification – Part II   | NL |
| 0294 | 61 | P  | Hidalgo*, Castro, Antolin, Alvarez                                    | The housing sector, a niche for business opportunities in the frame of circular economy   | ES |
| 0295 | 33 | KL | Lucas*  | CFD modelling of poly-disperse bubbly flows – status and perspectives   | DE |
| 0296 | 64 | L  | Karaszova*, Hercikova, Gaalova, Bourassi                              | Sorption and pertraction of Ibuprofen by commercial PERVAP™ 4060 membrane   | CZ |
| 0297 | 54 | L  | Kholkina*, Kumar, Lehtonen, Peurla, Palonen, Salonen, Rahkila, Murzin | Ultrasound irradiation as an effective technique in creation of slag-based catalytic materials: Synthesis, characterization and catalytic application | FI |
| 0298 | 71 | L  | Bogle*  | Some trends and challenges in chemical engineering education in Europe  | UK |
| 0299 | 68 | P  | Stamenic*, Lukic, Tadic, Skala  | Supercritical carbon dioxide extraction of Cannabis Sativa  | RS |
| 0300 | 10 | PL | Bogle*  | A role for chemical engineers in systems approaches to physiology and clinical medicine   | UK |
| 0301 | 10 | PL | Noel*   | Innovation in catalysis through use of microreactor technology  | NL |
| 0302 | 10 | PL | Drioli*, Macedonio  | Membrane engineering for a sustainable industrial growth, today and tomorrow  | IT |
| 0304 | 10 | PL | Zondervan*  | Processes and products: Two to tangle!  | DE |
| 0305 | 83 | P  | Sadenova*, Kulenova, Shaimardanov, Shaimardanova, Charykov, Keskinov  | Isobaric multiphase open phase processes differential equations   | KZ |
| 0306 | 52 | P  | Kulenova, Sadenova*, Shaimardanov, Shaimardanova, Charykov, Keskinov  | Production of the cements, modified by polyhydroxylated water soluble fullerenes, with improved strength characteristics                              | KZ |
| 0307 | 65 | P  | Cancela*, Gesteira, Sanchez, Alvarez                                  | Biocrude of bark and forest residues  | ES |
| 0308 | 13 | P  | Cancela*, Rodriguez, Sanchez, Alvarez                                 | Microalgae separation from water with green filters   | ES |
| 0310 | 65 | L  | Wu*, Tsai   | Techno-economic analysis and life cycle assessment of specific microalgal   | TW |



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|------|----|----|--|---|----|
|      |    |    |  | biorefineries using a superstructure optimization approach  |    |
| 0311 | 54 | P  | Aghazadeh*, Salari, Naiei                                    | Catalytic oxidation of volatile organic compound on nano-bimetallic catalysts   | IR |
| 0312 | 23 | L  | Hu*, Lin, Ma   | Designs of carbon nanofibers/manganese dioxide nanocomposites for flexible asymmetric supercapacitors   | TW |
| 0313 | 65 | L  | Hidalgo*, Martin-Marroquin, Castro, Gomez, Garrote, Antolin  | Effect of alternative pretreatments on the digestibility of lignocellulosic biomass for biogas production   | ES |
| 0314 | 67 | L  | Makarova*, Pysina  | Modelling tropospheric ozone concentration using neural networks  | RU |
| 0315 | 32 | L  | Adiche*  | Numerical investigation of mass transport properties in a membrane based microcontactor   | DE |
| 0316 | 63 | P  | Sugawara*, Sakusabe, Kato, Okawa                             | Recovery process of precious metals from E-waste  | JP |
| 0317 | 65 | KL | Golberg*, Steinbruch, Ghosh, Epstein, Kribus, Gozin          | Reducing the plastic waste: hydrothermal processing of green seaweed Ulva sp. biomass and its components for polyhydroxyalkanoates production                     | IL |
| 0318 | 56 | P  | Hosseini*  | Rheological and mechanical properties of ABS/SBS blends   | IR |
| 0319 | 56 | P  | Wang, Cheng*   | Synthesis of photo-curable hyperbranched polyurethane acrylates   | TW |
| 0320 | 54 | P  | Yergaziyeva*, Dossumov, Azat, Mambetova, Askaruly            | Conversion of ethanol over copper catalysts on rice husk  | KZ |
| 0321 | 12 | P  | Dossumov, Yergaziyeva*, Telbayeva, Myltykbayeva              | Ni-Co containing catalyst for dry reforming of methane  | KZ |
| 0322 | 33 | KL | Zawala*  | Influence of interfacial mobility on bubble motion, collision kinetics and stability of liquid films at interfaces - experiment and modeling                      | PL |
| 0323 | 54 | P  | Lin, Fang, Chen*   | Study on solventless catalytic etherification of glycerol over calcium and lanthanum oxides supported on alumina  | TW |
| 0324 | 54 | P  | Soto*, Badia, Ramirez, Bringue, Fite, Iborra, Tejero, Cunill | Optimization and green metrics analysis of the liquid-phase synthesis of sec-butyl levulinate by esterification of levulinic acid with 1-butene over Amberlyst™15 | IE |
| 0325 | 54 | L  | Soto*, Alarcon, Guilera, Andreu                              | Unravelling of the enhanced tolerance to sulfur poisoning by CeO2 presence in the CO2 methanation reaction  | IE |
| 0326 | 84 | L  | Zheng, Zhang, Wu*  | GPU-enhanced DEM modelling of particulate flow in twin screw granulators  | UK |
| 0327 | 52 | P  | Kambara*, Yoneda, Naoe, Okano, Matsuda, Imai                 | Filtration behavior of Pickering emulsions stabilized by stearate microparticles  | JP |
| 0328 | 55 | P  | Horiki*, Hamano, Sawai, Naoe, Imai                           | Preparation of Pickering emulsions stabilized by antibacterial silver nanoparticle  | JP |
| 0329 | 26 | KL | Chou*  | Semiconducting polymers as photocatalysts for solar-driven hydrogen evolution from water  | TW |
| 0330 | 11 | L  | Wang*, Luo, Liu, Hu  | MoS2 purification process with low acid consumption   | CN |
| 0331 | 81 | L  | Karaba*, Zamostny, Herink                                    | Semi-mechanistic model of steam-cracking improved for evaluation of the difference between blend/separate processing scenarios for naphtha feedstock              | CZ |

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| 0332 | 67 | P  | Makarova*, Ivanova   | The assessment of the effectiveness of chemical reclamation against the impact of anti-icing reagents   | RU |
| 0333 | 55 | L  | Chen*, Ramakrishnan, Kuo   | Quasicrystals: wetting properties and applications in OLED  | TW |
| 0334 | 65 | L  | Chen*, Hsueh, Wu   | Polyphenolic compounds as electron shuttles for sustainable energy utilization  | TW |
| 0335 | 66 | L  | Qazi*, Gomez-Coma, Albo, Druon-Bocquet, Irabien, Sanchez-Marcano | Coupling of 1-ethyl-3-methylimidazolium cation based room temperature ionic liquids with membrane contactor; post combustion CO2 capture                  | FR |
| 0336 | 84 | L  | Chang*   | Prediction of Brownian particle deposition in porous media using the triangular network model   | TW |
| 0337 | 67 | KL | Topka*, Gaalova  | Gold catalysts for the oxidation of volatile organic compounds  | CZ |
| 0338 | 33 | L  | Basarova*, Crha, Sladka, Kordac Orvalho                          | Consequences of anomalies of aqueous solutions of simple alcohols for bubble behaviour and multiphase reactors design                                     | CZ |
| 0339 | 54 | P  | Afir*  | High temperature X-ray diffraction study of tantalum behaviour  | DZ |
| 0340 | 54 | P  | Chikh-Afir*  | In-situ X-ray diffraction study of alumina $\alpha$ -Al2O3 behavior   | DZ |
| 0341 | 52 | P  | Figueiredo*, Souza   | Use of the "Technology Roadmap" to identify the trend of slow or controlled release fertilizer holders  | BR |
| 0342 | 91 | P  | Nadar*, Lokhat, Carsky   | Assessment of extraction techniques for bio oil production from marine macroalgae   | ZA |
| 0343 | 54 | L  | Berkovich*   | Friction Force Microscopy as a mean to provide direct nanoscale information on surface potentials of catalysts  | IL |
| 0344 | 13 | L  | Ashtiani*, Friess  | Synthesis and characterization of novel magnetic nanoparticles decorated with MOFs grafted from GO and O-SWCNTs for catalytic activity in water treatment | CZ |
| 0346 | 85 | P  | Niyazbekova*, Serekpaeva, Usserbayev, Kokaeva, Abdulina          | Research of properties of glass-crystal materials based on metallurgical slags  | KZ |
| 0347 | 32 | L  | Abiev*, Kumar  | Mathematical model of hydrodynamics and heat transfer in microchannel heat pipe with circulating two-phase Taylor flow                                    | RU |
| 0348 | 13 | P  | Tikker*, Kornev, Preis   | Oxidation energy efficiency in water treatment with gas-phase pulsed corona discharge as a function of spray density                                      | EE |
| 0349 | 53 | P  | Kim*, Kim, Kwon, Ha  | Pinpointing transition metal vanadate with multi-functionalities deployable to reduce NOX and to decompose poisons at low temperatures                    | KR |
| 0350 | 54 | P  | Kim*, Kwon, Ha, Kim  | Tuning surface characters of CeVO4 solid solutions mediated by rare-earth metal substituents for selective catalytic NOX reduction                        | KR |
| 0351 | 15 | L  | Mukesh*, Mikkola   | Rapid desorption of CO2 from deep eutectic solvents at lower temperature: An alternative technology with industrial potential                             | SE |
| 0352 | 12 | L  | Rahmanian*, Nair   | Effect of impurities on formation of carbon-dioxide hydrates  | UK |
| 0353 | 55 | P  | Ten, Luo, Lee*   | Self-assembly behavior and monolayer characteristics of dodecylamine on Au (111) surface  | TW |
| 0354 | 13 | L  | Borquez*, Vargas, Pino   | Increase of performance of nanofiltration membranes by surface  | CL |

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| 0355 | 84 | P | Tirado*, Trejo, Ancheyta                          | Modelling of a bench-scale fixed-bed reactor for catalytic hydrotreating of vegetable oil   | MX |
| 0356 | 65 | L | Zakova*, Kratky, Jirout                           | The elimination and the removal of the algal biofilm from an internal illuminated surface of closed photobioreactors                      | CZ |
| 0357 | 44 | L | Garcia Fracaro*, Wilk, Glassey, Bernaerts         | Preliminary study of virtual reality application for chemical operators training on pilot plant procedure                                 | DE |
| 0358 | 85 | L | Wang*, Song, Yu                                   | Enhanced the froth properties in KCl flotation  | CN |
| 0359 | 23 | P | Bak*  | Bio-diesel production from soybean oil by using oyster shell catalysts  | KR |
| 0360 | 32 | L | Saeed, Alatyar, Gadi Man, Berrouk*, AlShehhi      | CFD modelling of thermal and hydraulic characteristics of a rotating packed bed reactor used for CO2 capture                              | AE |
| 0361 | 35 | P | Abiev*, Grigoreva                                 | Novel mixer design for effective mixing in liquid-solid systems   | RU |
| 0362 | 81 | L | Grilc*, Hocevar, Prasnikar, Hus, Likozar          | Selective H2-free dehydroxylation of aldaric acids to adipic acid: Reaction pathway network and microkinetics                             | SI |
| 0363 | 56 | P | Cho*  | Surface-modified cellulose nanocrystals as reinforcing precursors for electrospinning   | KR |
| 0364 | 22 | L | Wolna*, Fricke                                    | Teaching with a global contest: how a process simulator vendor adds value to the education of chemical process engineering students       | DE |
| 0365 | 67 | P | Hidalgo, Corona, Martin Marroquin*                | Effect of effective microorganisms on poultry, cattle and pig manure  | ES |
| 0366 | 65 | L | Primozic, Vasic, Knez, Leitgeb*                   | Cultivation of Pleurotus ostreatus fungi on substrates from agricultural wastes   | SI |
| 0367 | 26 | L | Bojarska*, Mazurkiewicz-Pawlicka, Makowski        | Synthesis of molybdenum disulphide-carbon nanomaterials nanocomposites in the impinging jet reactor and their electrochemical performance | PL |
| 0368 | 91 | P | Wallergraber*, Paulik                             | Investigation of a Michael-addition in a scaleup process  | AT |
| 0369 | 66 | L | Bautista-Patacsil*, Cabato, Pinga                 | Synthesis of nanocellulose-silica forward osmosis membrane using Ananas comosus leaves for desalination                                   | PH |
| 0370 | 52 | L | Porgar, Rahmanian*                                | Investigation of the role of aluminum oxide nanoparticles on water based fluid and improvement of thermal properties                      | UK |
| 0371 | 84 | L | Nakasu*, Kushimoto, Ishihara, Kano                | A coupled DEM-SPH model for the liquid bridge   | JP |
| 0372 | 66 | L | Durdakova, Hrdlicka, Dendisova, Svecova, Vopicka* | A new insight into the plasticization of polymers   | CZ |
| 0373 | 84 | L | Kushimoto*, Ishihara, Junya                       | Analysis for the effect of motion of grinding balls on particle behavior in liquid  | JP |
| 0374 | 85 | P | Patrascu*, Bildea, Kiss                           | Enhanced reactive distillation process for dimethyl carbonate production by indirect alcoholysis of urea                                  | RO |
| 0375 | 75 | P | Polednik*, Skrinisky                              | Influence of vessel shape and volume on autoignition temperature of alcohol/air and Fischer-Tropsch mixtures                              | CZ |

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|------|----|---|---|---|----|
| 0376 | 65 | L | Sibalic*, Salic, Zelic, Jurinjak Tusek, Tisma               | Lipase from Thermomyces lanuginosus: From production by solid-state fermentation to isolation   | HR |
| 0377 | 75 | P | Skrinsky*, Rusin, Chamradova                                | The effect of low and high temperatures on the explosion characteristics of a biogas/air mixtures   | CZ |
| 0378 | 75 | P | Helegda*, Skrinsky  | The role of burning velocity in the validity of the hybrid mixtures measured in 1m3 and 20 l chambers   | CZ |
| 0379 | 32 | L | Otaola*, Mottelet, Terrien, Guenin, Luart, Leturia          | Additive manufacturing, residence time distribution characterization and flow chemistry applied to the development of microreactors   | FR |
| 0380 | 52 | P | Lovskaya*, Lebedev, Menshutina                              | Biopolymer aerogels for pharmaceutical industry and medicine  | RU |
| 0381 | 33 | L | Du*, Ibaseta, Guichardon, Montagnier, Hubard                | Calibrated microencapsulation of octyl salicylate by polyurea shell via microfluidics: influence of the shell thickness on the UV absorbance  | FR |
| 0382 | 32 | P | Proskurina, Sirotkin, Sokolova, Abiev*, Gusarov             | Confined impinging jets microreactor plus heat treatment as a tool for formation of BiFeO3 and YFeO3 nanoparticles  | RU |
| 0383 | 68 | L | Sovova*, Pleskac, Topiar                                    | Enzymatic reactions of oils in supercritical carbon dioxide – pros and cons   | CZ |
| 0384 | 75 | P | Lyagoubi, Vernieres-Hassimi*, Khalij, Estel                 | Influence of the random deviation in operating conditions on the safety and reliability of a chemical reactor   | FR |
| 0385 | 33 | L | Zednikova*, Stanovsky, Orvalho, Travnickova                 | Mechanism of bubble breakup after interaction with a vortex-ring  | CZ |
| 0386 | 82 | L | Udrea*, György, Bildea                                      | Modelling of complex middle vessel batch distillation processes   | RO |
| 0387 | 84 | L | Suzuki*, Kushimoto, Ishihara, Kano, Soda, Ozaki             | Numerical simulation of particles behavior in a jet mill  | JP |
| 0388 | 31 | L | Witte*, Kunkel  | Simulation based scale up for continuous high viscous recycling processes   | CH |
| 0389 | 85 | L | Moraru, Zaharia, Bildea*                                    | Solid-catalysed processes for 4-hydroxybutyl acrylate production  | RO |
| 0390 | 26 | L | Dubov*, Font Capafons                                       | Solution-processable precursors to semi-amorphous carbon nitride films: a promising approach to anchoring catalytic metallocomplexes and nanoparticles to metallic and carbon-based electrode supports for electrocatalysis | ES |
| 0391 | 82 | P | Ulloa, Bringas, San Roman*                                  | Study of nickel and copper recovery from industrial acid solutions by chelating weak base resins  | ES |
| 0392 | 75 | L | Ben Talouba, Balland*, Mouhab, Diop                         | Synthesis of a bio-additive cetane improver by bio-fuel nitration with acetyl nitrate: Kinetic modelling and thermal stability study  | FR |
| 0393 | 12 | P | Kheiririk, Ahmed, Homayoonfard, Rahmanian*                  | Techno-economic analysis of carbon capture processes  | UK |
| 0394 | 66 | L | Gul*, Khattak   | Synthesis of low cost geopolymeric membrane from waste fly ash for forward osmosis applications   | PK |
| 0395 | 82 | L | Popescu*, Iancu, Plesu, Bildea, Todasca, Isopencu, Josceanu | Effect of tomato variety and extraction methods on recovered carotenoids, antioxidant and antimicrobial activities  | RO |
| 0396 | 67 | P | Krejčíková*, Spacilová, Dytrych, Soukup, Marsik, Solcova    | Removal of diclofenac from water by sorption and photo processes  | CZ |
| 0397 | 15 | L | Payet*, Carlu, Gourlia, Debard                              | What are the key challenges for energy efficiency in industries?  | FR |

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| 0398 | 56 | L  | Stasi, Giuri, La Villetta, Cirillo, Guerra, Maffezzoli, Ferraris, Esposito Corcione* | An innovative method for the recycling of carbon-based ashes wastes as reinforcing fillers and catalysts for different polymers                                     | IT |
| 0399 | 11 | KL | Dubois, Mouhoubi, De Weireld, Thomas*  | CO <sub>2</sub> capture applied in the cement industry: reducing the energy consumption of the post-combustion absorption-regeneration process                      | BE |
| 0400 | 81 | P  | Fotovat*, Mehrnaz  | Comparison and reduction of the kinetic mechanisms proposed for thermal partial oxidation of methane (TPOX) in porous media   | IR |
| 0401 | 66 | L  | Merlet*, Flores, Cabezas, Romero, Quijada-Maldonado                                  | COSMO-RS Design of a Perstraction process for the extraction of persistent organic pollutants (POPs) from bovine milk using ionic liquids as receiving phase        | CL |
| 0402 | 14 | P  | Morm, Hoeun, Phoem, In, Haut, Debaste*   | Drying characterization of white pepper ( <i>Piper nigrum</i> L.): experiments and mathematical modeling  | BE |
| 0403 | 68 | P  | Pleskac*, Sovova   | Enzymatic hydrolysis of vegetable oil in supercritical carbon dioxide and analysis of fatty acid profile in the reaction product                                    | CZ |
| 0404 | 52 | P  | Abdelbaki*, Guillal, Bensghier, Gaceb, Betayeb                                       | Optimum use of high strength steel in the construction of pipeline system   | DZ |
| 0405 | 52 | L  | Tuzun*   | Relative Importance of van der Waals and Lubrication Forces in Particulate Packed-Bed and Suspension Flows  | UK |
| 0406 | 85 | L  | Dubbink*, Geverink, Haar, Koets, Kumar, van den Berg, van der Ham, Lange             | Systematic design of a chemical production plant for FDCA from furfural – a techno-economic evaluation  | NL |
| 0407 | 44 | L  | Pishnamazi*, Hafizi, Pishnamazi, Marjani, Walker                                     | Controlled-release development of paracetamol using drug-loaded functionalized KCC-1, a silica based nanoparticles applying direct compaction tableting             | IE |
| 0408 | 67 | L  | Vindas, Duran*   | Design and evaluation of a 3D printed catalytic support for use in heterogeneous Fenton processes for degrading persistent pollutants                               | CR |
| 0409 | 23 | L  | Itaya*, Kusumoto, Matsushita, Kobayashi, Nakagawa                                    | Heat storage effect and high temperature generation in LiBr/H <sub>2</sub> O absorption heat pump using LiBr crystal fine particle slurry for exhaust heat recovery | JP |
| 0410 | 72 | L  | Brodawka*, Balys, Szczurowski  | How to teach CHEMCAD: From basic examples to the PSC competition  | PL |
| 0411 | 65 | P  | Avdeenkova*, Pishchaeva, Makarova, Saproshina  | Reclamation of landfills and solid municipal waste landfills using bioremediation methods   | RU |
| 0412 | 67 | P  | Brodawka*, Balys, Szczurowski  | Adsorption of CH <sub>4</sub> , N <sub>2</sub> , CO <sub>2</sub> and O <sub>2</sub> on carbon materials for methane separation and enrichment                       | PL |
| 0413 | 44 | L  | Tripathi*, Francqui, Lumay   | Flowability characterization of lactose process based on relative humidity  | BE |
| 0414 | 63 | P  | Zarębska, Baran, Gazda-Grzywacz, Brodawka*, Szczurowski, Balys                       | Geopolymers with insulation properties based on fly ash   | PL |
| 0415 | 33 | P  | Dobrowolska, Sosnowski*  | Liquid atomization in medical nebulizers: droplet velocity characteristics  | PL |
| 0417 | 43 | L  | Cherkasov*, Baldwin, Isakov  | Autonomous self-optimising reactors based on low-cost sensors   | UK |
| 0418 | 32 | L  | Cherkasov*   | Intensification of hydrogenation reactions in continuous flow   | UK |

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| 0419 | 68 | L | Sajfrtova*, Srailova, Cerhova, Jandova, Kosovic                | Micronization of extracts from sea buckthorn waste using supercritical antisolvent   | CZ |
| 0420 | 23 | L | Quintero-Masselski*, Portha, Falk                              | Ammonia as a hydrogen carrier: Process synthesis using superstructure optimization for the storage of renewable energy sources in chemical compounds | FR |
| 0421 | 62 | P | Ferraz, Dutra, Dallastra, Morais, Grajales*                    | A production chain without waste - taking full advantage of babassu processing   | BR |
| 0422 | 56 | L | Wu*, Cui, Wang, Wu, Cui, He                                    | De-anion and hydrogen bond network fabrication strategy for advanced polybenzimidazole anion exchange membranes                                      | CN |
| 0423 | 66 | L | Cabezas*, Duran, Merlet, Romero, Quijada-Maldonado             | Development of silicone-coated hydrophobic deep eutectic solvent-based membranes for pervaporation of biobutanol                                     | CL |
| 0424 | 12 | P | Baizhumanova*, Kaumenova, Kassymkan, Zheksenbaeva, Tungatarova | Dry reforming of propane into important petrochemical products   | KZ |
| 0425 | 56 | L | Greco*, Ferrari  | Effect of plasticizer addition on the thermal and relaxation properties of poly(lactid acid)   | IT |
| 0426 | 54 | P | Wu*, Cui, Sun, Cui, Wu, He                                     | Oxygen vacancy-rich 1D In-SnO <sub>2</sub> hollow nanofiber architecture for high CO <sub>2</sub> electroreduction activity                          | CN |
| 0427 | 23 | P | Sariyer*, Sezgi, Doğu  | Sorption enhanced steam reforming of ethanol in the microwave and conventionally heated reactors over Ni impregnated mesoporous carbon               | TR |
| 0428 | 84 | L | Kozakovic*, Kramolis, Travnickova, Kohout, Havlica             | The effect of sliding friction coefficient on the mixing process in a granular vertical bladed mixer   | CZ |
| 0429 | 83 | L | Krajkova*, Chaloupka, Kosek                                    | Two-phase and three-phase equilibria important for catalytic ethylene polymerization in liquids  | CZ |
| 0430 | 13 | P | Simoes dos Reis*, H. Larsson                                   | Efficient ciprofloxacin removal from water and hospital effluent treatment by eco-friendly inorganic waste-APTES functionalized adsorbent            | SE |
| 0431 | 12 | L | Papalas*, Antzaras, Kouris, Lemonidou                          | Enhancing the sorption performance of CaO-based mineral and industrial waste resources for post-combustion CO <sub>2</sub> capture                   | GR |
| 0432 | 23 | P | Jang*, You, Park, Kim, Kim                                     | Operational optimization and demand response for high penetration of renewable electricity in a distributed energy system                            | KR |
| 0433 | 56 | P | Kukralova*, Schneider, Kosek                                   | Morphological changes in polyethylene during sorption processes studied by Differential Scanning Calorimetry   | CZ |
| 0434 | 61 | P | Simoes dos Reis*, H. Larsson, G. Cazacliu, Artoni              | Rotating carbonation process for improving of recycled sand properties   | SE |
| 0436 | 65 | P | Granacher*, Celebi, Marechal                                   | The potential of the pulp and paper industry to act as an integrated biorefinery under varying economic conditions                                   | CH |
| 0437 | 54 | P | Park*, You, Jang, Kim, Lim, Kim                                | Artificial intelligence (AI)-based modelling and heterogeneous catalyst design of CO <sub>2</sub> hydrogenation for methanol production              | KR |
| 0438 | 24 | P | Kansha*, Sato  | Comparative study of carbon dioxide capture process for utilization  | JP |
| 0439 | 43 | L | Kansha*, Ishizuka  | Energy harvesting wireless sensors using magnetic phase transition   | JP |



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| 0440 | 25 | L | Tabernilla*, Izaddoust, Diaz, Valecillos, Bilbao, Aguayo, Epelde         | High-pressure 1-butene oligomerization to clean liquid fuels on HZSM-5 zeolite catalyst with hierarchical porous structure                       | ES |
| 0441 | 56 | L | Kardous*, Mckenna, Sheibat-Othman  | Optimization of grade transition in fluidized-bed reactors accounting for condensed agent effects  | FR |
| 0442 | 11 | L | Damartzis*, Li, Marechal   | Towards CO2 neutral energy systems: a framework for energy and carbon flows modeling for the energy transition                                   | CH |
| 0443 | 23 | L | Landa*, Remiro, Garcia-Gomez, Elordi, Valle, Gayubo, Bilbao              | Deactivation of NiAl2O4 catalyst in the steam reforming of bio-oil: Role of acetol   | ES |
| 0444 | 52 | L | Berkinova*, Yermukhambetova, Boribayeva, Zharbossyn, Golman              | Study of thermal behavior of powder compacts using Discrete Element Method   | KZ |
| 0445 | 81 | P | Klimosek*, Krajakova, Zubov, Kosek                                       | Systematic investigation of diffusion in semicrystalline polyolefins   | CZ |
| 0446 | 81 | L | Alvear*, Eranen, Murzin, Salmi   | Towards a deeper understanding of propene oxide synthesis in a trickle bed reactor through transient experiments                                 | FI |
| 0447 | 63 | L | Kolarova, Jantac*, Sklenarova, Kosek                                     | Triboelectric separation of plastics: can we use it to improve recycling of plastic waste?   | CZ |
| 0448 | 26 | P | Nafees*, Abdul Rasid   | Advancement in solid oxide fuel cells modeling approaches  | MY |
| 0449 | 26 | L | Khan*, Tarek, Sarmin, Yee  | B-doped CuFe2O4@g-C3N4 an efficient visible light active catalyst for photoreforming of wastewater for hydrogen production                       | MY |
| 0450 | 23 | P | Kouhili*, Abdelouahed, Sebbagh, Estel                                    | Detailed modeling and optimization of hydrogen production by water electrolysis from renewable sources (solar and wind)                          | FR |
| 0451 | 81 | L | Lalleman*, Magnaldo, Garzon-Losik, Arab-Chapelet, Charlier, Marc, Schaer | Dissolution phenomena of mixed (U,Pu) oxides   | FR |
| 0452 | 66 | L | Celik*, Deniz  | Effects of CUMOF types on CO2 separation properties of PEBA/CUMOF mixed matrix membranes   | TR |
| 0453 | 84 | L | Miyamoto*, Kushimoto, Ishihara, Kano                                     | Evaluating effects of heat energy on mechanochemical reaction  | JP |
| 0454 | 67 | L | Weidlich*, Bendova, Kamenicka, Nydrle                                    | Facile degradation of polar halogenated pharmaceuticals from contaminated waste water; Diclofenac and its CF3 analogue as the model contaminants | CZ |
| 0455 | 84 | P | Chaloupka*, Zubov, Kosek   | Radical profiles during two phase emulsion copolymerisation modelled by Monte Carlo approach   | CZ |
| 0456 | 84 | L | Zubov*, Chaloupka, Sin   | Modelling of aliphatic polyesters production by ring-opening polymerization: from kinetics to rheology   | CZ |
| 0457 | 24 | L | Abotaleb*, Amhamed   | Modified kalina system for an efficient power and water production   | QA |
| 0458 | 35 | L | Fitschen*, Hofmann, Wutz, Wucherpennig, Hoffmann, Schluter               | Novel method to visualize local mixing time distribution in aerated stirred tank reactors  | DE |
| 0459 | 13 | P | Onga*, Kornev, Preis   | Oxidation of reactive azo-dyes with pulsed corona discharge: Surface   | EE |



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|      |    |    |   | reaction enhancement   |    |
| 0460 | 56 | L  | Boura*, Zubov, Kosek  | Preparation of micro-cellular scaffolds from poly(lactic acid) by thermally induced phase separation   | CZ |
| 0461 | 54 | P  | Sivri*, Dilek, Sezgi  | Recycling of polylactic acid with metal and ionic liquid loaded silica aerogel catalysts   | TR |
| 0462 | 83 | L  | Schneider*, Chaloupka, Kukralova, Kosek                                     | Sorption of gaseous and liquid penetrants in polyethylene measured by low field NMR  | CZ |
| 0463 | 26 | L  | Sklenarova*, Jantac, Kosek  | Study of electrostatic and adhesive forces in dielectric systems: anti-dust solutions for photovoltaics  | CZ |
| 0464 | 68 | L  | Cerhova*, Srailova, Kosovic, Jandova, Sajfrtova                             | Supercritical antisolvent precipitation of polyphenols from grape marc   | CZ |
| 0465 | 15 | KL | Azapagic*   | Sustainability of global supply chains: Are we ready for a circular economy?   | UK |
| 0466 | 24 | KL | Amhamed*, Abotaleb, Almasri, Elrayyah, Al-Kuwari                            | Sustainable energy harvesting system for power and water production in desert climate  | QA |
| 0467 | 65 | L  | Mikola, Ahola*, Tanskanen   | The solvent effect in direct conversion of cellulose to levulinic acid   | FI |
| 0468 | 26 | L  | Tirano*, Zea, Luhrs   | An empirical model for the kinetics of highly ordered TiO <sub>2</sub> nanotubes synthesis by electrochemical anodization by using Ti as cathode | CO |
| 0469 | 35 | L  | Padron*   | Effect of viscosity (or lack thereof) on the flooding point in a gassed stirred tank   | UK |
| 0470 | 42 | KL | Fasel, Bruns, Riese*  | New tray column design for flexible operation by enhanced operation ranges and reduced start-up times  | DE |
| 0471 | 52 | L  | Das, Larsson*, Holdo, Agar, Rudolfsson                                      | Novel milling of wet wood logs to fine powders with increased sphericity   | SE |
| 0472 | 26 | KL | Schroder*, San Roman, Ortiz Uribe   | Photocatalytic degradation of Triclosan: assessment of potential formation of chlorinated organic by-products                                    | ES |
| 0473 | 32 | L  | Gahfif*, Chateau, Portha, Schaer, Gauthier, Rocha, Belliere-Baca            | Sizing of a washcoated reactor for the catalytic oxidation of propylene to acrolein on a solid bismuth/molybdate catalyst                        | FR |
| 0474 | 33 | L  | Stavarek*, Havlica, Kantor, Araujo, Alves, Miranda                          | Two-phase flow hydrodynamics in trickle bed reactor with 3D printed packed bed   | CZ |
| 0475 | 26 | L  | Barbosa*, Brito, Oliveira, Fernandes, Sampaio, Faria, Silva, Santos, Santos | A multichannel device for high throughput photocatalysts testing   | PT |
| 0476 | 83 | P  | Bedretdinov*, Chelyuskina   | Analysis of various iso-manifolds in multicomponent systems with biazeotropic constituents   | RU |
| 0477 | 25 | P  | Longati*, Pratto, Giordano, Cruz  | Ethanol production from sugarcane straw via PSSSF process: climate change and techno-economic analysis   | BR |
| 0478 | 26 | L  | Kask*, Bolobajev, Krichevskaya  | Gas-phase photocatalytic degradation of VOCs and ozone in continuous multi-section reactor   | EE |
| 0479 | 68 | L  | Katsinas, Cocero, Enriquez-De-Salamanca, Rodriguez-Rojo*                    | Intensified extraction of olive pomace polyphenols using green solvents  | ES |

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| 0480 | 33 | L  | Strohner*, Antonyuk   | Investigation of the impact behaviour of particles on microstructured surfaces covered by a liquid layer   | DE |
| 0481 | 83 | P  | Smirnov*, Toikka, Samarov, Toikka   | Liquid-liquid phase equilibria in the reacting system acetic acid - n-butanol - n-butyl acetate - water at 318.15 K and atmospheric pressure                     | RU |
| 0482 | 56 | L  | Jablonski*, Samikannu, Konwar, Christiansen, Hansen, Mikkola, Irgum           | Methanolysis of polyhydroxyalkanoates (PHA) in the presence of N-doped active carbon, DBU and NbOPO <sub>4</sub> catalysts for monomers production               | SE |
| 0483 | 82 | L  | Marik*, Haidl, Rejl   | On the way to distillation interfacial area quantification - conditions at the interface directly measured with thermography!                                    | CZ |
| 0484 | 55 | KL | Soukup*, Topka, Hejtmanek, Solcova  | Preparation of nanofibrous carriers by electrospinning technique for deposition of catalyst nanoparticles and living cells                                       | CZ |
| 0485 | 66 | L  | Amin*, Dubov, Stuber, Font  | Role of carbon layer on anaerobic azo dye reduction  | ES |
| 0486 | 83 | P  | Chelyuskina*, Polkovnichenko  | The transformations of the structures of an equilibrium phase diagrams of three component biazeotropic systems under external conditions change                  | RU |
| 0487 | 33 | L  | Fernandes*, Brito, Manrique, Dias, Lopes, Santos                              | Two-phase flow in NETmix reactors  | PT |
| 0488 | 66 | P  | Jarboui*, Mericq, Mezenge, Thami, Charmette, Adam, Biermans, Veillard, Bouyer | A 2-D mathematical model for corneal oxygenation with scleral lens wear: interplay between local corneal oxygenation and swelling                                | FR |
| 0489 | 26 | L  | Muller*, Kohns, Strofer, Hasse  | A cold plasma reactor for partial oxidation of methane   | DE |
| 0490 | 84 | L  | Abazie, Alabi*  | A very accurate explicit approximation of the implicit Colebrook-White equation  | NG |
| 0491 | 67 | L  | Cordeiro, Senechal, Lahem, Hantson*   | Bioactive coatings development for indoor formaldehyde depollution   | BE |
| 0492 | 23 | P  | Tungatarova, Xanthopoulou, Kaumenova, Zhumabek, Baizhumanova, Kotov*          | Carbon dioxide reforming of methane for production of synthesis-gas  | KZ |
| 0493 | 82 | L  | Svoboda*, Henke, Gillarova, Bubnik, Hinkova                                   | Development of a continuous chromatography process in SMB mode for separation of mannose from guar gum hydrolysate   | CZ |
| 0494 | 81 | P  | Alvarez*, Amutio, Lopez, Cortazar, Fernandez, Santamaria, Olazar              | Effect of biomass metallic species on the char conversion during steam gasification in a conical spouted bed   | ES |
| 0495 | 67 | P  | Dal Pozzo*, Moricone, Tugnoli, Cozzani  | HCl and SO <sub>2</sub> removal by sodium bicarbonate at low temperatures  | IT |
| 0496 | 85 | L  | Marycz*, Brillowska-Dąbrowska, Gębicki  | Identification of environmental fungi from peat capable of carrying out enantioselectively reactions on racemic mixtures   | PL |
| 0497 | 71 | L  | Portha*, Costa da Cruz, Mendes, Thybaut                                       | Assessment of the kinetic model complexity required for methanol synthesis by carbon dioxide hydrogenation over a Cu/ZnO-Al <sub>2</sub> O <sub>3</sub> catalyst | FR |
| 0498 | 33 | KL | Roche, Helle, Saxen*  | Model of hearth drainage in large blast furnaces   | FI |
| 0499 | 31 | L  | Seyfang*  | Process optimization – you can only improve what you understand  | DE |
| 0500 | 61 | P  | Gillarova*, Henke, Svoboda, Pour,   | Sugar by-products fractionation using ion exchangers   | CZ |

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|      |    |    | Bubnik   |   |    |
| 0501 | 26 | L  | Henke*, Gillarova, Pour, Hinkova, Bubnik, Kadlec, Slukova                      | Utilization of titanium dioxide/UV light photocatalysis for decomposition of organic acid pollutants  | CZ |
| 0502 | 14 | L  | Amaya, Tellez, Castro*, Noriega, Serrato                                       | Modeling of galacto-oligosaccharides synthesis in symbiotic fermented milk beverage process using $\beta$ -galactosidase from <i>Aspergillus oryzae</i>                 | CO |
| 0503 | 75 | L  | Moucha*, Linek, Boura, Kracik  | Hydrogen sensor development   | CZ |
| 0504 | 33 | L  | Orvalho*, Hashida, Stanovsky, Zednikova, Kulaviak, Ruzicka, Tomiyama           | Study of slurry bubble column hydrodynamics   | CZ |
| 0505 | 55 | L  | Manrique*, Barreiro, Lopes, Dias   | NETmix: a novel technology to produce functionalized nano-hydroxyapatite and hydroxyapatite-based hybrid materials for bone regeneration                                | PT |
| 0506 | 31 | P  | Caballero*, Guzman, Perez, Almanza   | Energy optimisation case of study applied to MHC Unit in Colombian Refinery using computational models. Part I  | CO |
| 0508 | 26 | P  | Tirano*, Zea, Bredol   | Structure and morphology of nickel-doped titania nanotube prepared by direct and pulse current electrodeposition  | CO |
| 0509 | 34 | P  | Kasparova*, Hasal, Slouka, Vobecka, Pribyl                                     | Biosynthesis and enantioselective separation of mandelic acid   | CZ |
| 0510 | 13 | P  | Milosevic*, Milovanovic, Bugarcic, Radovanovic, Petrovic, Marinkovic, Petrovic | Efficient removal of Cd <sup>2+</sup> from aqueous solution by <i>Handkea utrifomis</i> - modified hybrid materials   | RS |
| 0511 | 13 | P  | Bugarcic*, Milosevic, Sokic, Milovanovic, Milivojevic, Marinkovic              | Fabrication and characterization of manganese ferrite/expanded vermiculite as a magnetic adsorbent of nickel ions   | RS |
| 0512 | 13 | P  | Milovanovic*, Milosevic, Ljubic, Popovic, Bugarcic, Lazarevic, Petrovic        | The removal of anionic dye from aqueous solution by mercaptosilanized acid activated sepiolite  | RS |
| 0513 | 91 | P  | Hammond*, Lokhat, Carsky   | Interfacial separation of coal and superfine iron oxide catalyst mixtures   | ZA |
| 0514 | 33 | KL | Nandakumar*  | Enabling Process Innovation through Computation (EPIC) for multiphase, multiscale, multiphysics process systems   | US |
| 0515 | 23 | L  | Kukwa*, Chetty   | Kinetics and thermodynamics of lipid and hydrocarbons accumulation as the Microalga <i>Scenedesmus</i> sp. is cultivated in CO <sub>2</sub> -sparged brewery wastewater | ZA |
| 0516 | 85 | P  | Moguel-Castañeda*, Zenteno-Catemaxca, Puebla, Rivera, Hernandez-Martinez       | Monitoring of the production of ethanol and sodium acetate: a proposal based on multi-scale analysis  | MX |
| 0517 | 54 | P  | Schmidt*, Reinsdorf, Kumar, Eranen, Salmi                                      | Catalyst development for the direct synthesis of hydrogen peroxide  | FI |
| 0518 | 71 | KL | De Haan*, Swinkels   | Product and Process Design, the Delft Design Method   | NL |
| 0519 | 56 | P  | Zhang, Zhou, Lu, Zhong, Qing, Wang*  | Molecularly imprinted polymers (MIPs) for the purification of macro-molecules: Effects of solvent, monomer, and operational conditions                                  | AE |

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| 0520 | 23 | P  | Arregi, Alvarez*, Amutio, Artetxe, Orozco, Garcia, Olazar                                  | Regeneration of a commercial Ni catalyst in the pyrolysis and in-line reforming of biomass  | ES |
| 0521 | 54 | P  | Ranjbar, Hakkak*   | Investigation effect of different sol-gel matrix and utilization of supramolecular precursor to reach nano sized yttrium stabilized zirconia ceramic  | DE |
| 0522 | 23 | P  | Park*, Kim, Jeon, Lee, Kim   | Heterogeneous synthesis of fatty acid amide by amidation of FAME  | KR |
| 0523 | 10 | PL | Thiele*  | Miniaturized polymer materials as platforms for cell-free biosynthesis and cell biology   | DE |
| 0524 | 22 | L  | Mahmud*  | Numerical study of mixing performance of a novel 'Y-U' sar micromixer   | BD |
| 0525 | 67 | P  | Urbaniak*, Ciupek, Judt  | Analysis of the possibilities of application of the industrial quality analyzer of the combustion process for boiler control  | PL |
| 0526 | 85 | L  | Saric*, Heesink, Sumbharaju, van Delft, Kupiainen, Pitkanen, van Goethem                   | Energy efficient combined heat and mass process for CO2 absorption  | NL |
| 0527 | 35 | P  | Xi*, Sun, Zhao   | Mixing and heat transfer characteristics of built-in Chinese-knot static mixer for viscous fluids   | CN |
| 0528 | 56 | KL | Xi*, Song, Zhao  | Preparation of functional MBG/PLGA scaffolds via sc-CO2 foaming for guided tissue regeneration  | CN |
| 0529 | 64 | P  | Spacilova*, Dytrych, Krejckova, Fajgar, Solcova  | Removal of microplastics from water by specific sorbents  | CZ |
| 0530 | 56 | P  | Trofimchuk*, Khavpachev, Moskvina, Demina, Nikonorova                                      | Crazing of the fibers based on biodegradable polyesters   | RU |
| 0531 | 66 | P  | Ulson de Souza*, Regis, Moreno, Farias Souza, Marinho, Mazur, Silva, Guelli Ulson de Souza | Micellar enhanced ultrafiltration for the removal of oilfield water-soluble compounds   | BR |
| 0532 | 65 | P  | Guelli Ulson de Souza*, Bittencourt, Mazur, Marinho, Silva, Ulson de Souza                 | Process intensification in the Cr(VI) removal from aqueous solution using Laminaria hyperborea saturated with iron as biophotocatalyst  | BR |
| 0533 | 84 | L  | Grigs*, Bolmanis, Galvanauskas   | Application of software and hardware sensors for recombinant P. pastoris GS115 biomass estimation: a case analysis of HBcAg (Mut+) and HBsAg (MutS) obtainment under varying cultivation conditions | LV |
| 0534 | 44 | P  | Keshavarz, Pishnamazi*, Steendam, Khandavilli, Collins, Walker, Frawley                    | Tailoring crystal size distributions for product performance, compaction of Paracetamol   | IE |
| 0535 | 85 | P  | Bednarova*, Vidensky, Zlamal, Sedlarova  | Study of reprocessing of iron(II) sulphate heptahydrate from TiO2 production using MgO  | CZ |
| 0536 | 13 | P  | Kribeche*, Brosullion, Zaviska, Ginestet, Lhomme   | Activ'H2O, innovative electrochemical process for water disinfection, efficiency evaluation and influencing factors   | FR |
| 0537 | 54 | P  | Hakimi, Rashchi*, Shakibania, Mahmoudi   | Electrosynthesis of Ti/PbO2-RuO2 nano-composites for improving the catalytic activity of the zinc electrowinning anodes   | IR |

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| 0538 | 82 | P | Hamamah*, Grutzner                      | Extraction in rotating devices – characterization of a highly efficient device supporting the modularization in chemical process industry | DE |
| 0539 | 31 | P | Labovsky*, Labovska, Danko, Jelemensky  | Model based hazard identification of chemical processes and industrial clusters using GPU accelerated simulation                          | SK |
| 0540 | 32 | P | Labovska*, Labovsky, Sulgan, Jelemensky | Multilevel intensification of chemical processes and industrial clusters  | SK |

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