

Poster Program

Tuesday , November 17, 2009

| Subject | Code | Title |
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| <i>Petroleum & Reservoir Engineering</i> | 12176 | A Detailed Modeling for Enhanced Fluid Percolation in Fractured Porous Media by Application of Low Frequency Elastic Waves: An Extension of Previous |
| | 12202 | A Literature Review on Utilization of Smart Well Technology |
| | 12248 | A New Generalized Model for Prediction of Two-Phase Relative Permeability: Water-Oil Experimental Results for Berea Sandstone |
| | 12205 | A Novel Approach to Effective Permeability Estimation for Modeling Naturally Fractured Reservoirs |
| | 12216 | A Novel Semi-Empirical Correlation for Prediction of Bubble Point Pressure of Hydrocarbon Mixtures Based on Patel-Teja & Valderrama-Patel-Teja EOS |
| | 12171 | analysis of transport mechanisms in gas condensate reservoir |
| | 12163 | Application of Artificial Intelligence to Evaluate CO2 Flooding Profits for an Iranian Oil Field |
| | 12158 | Artificial Neural Network Modelling Enhances Prediction of Shear Wave Transit Time |
| | 12220 | Association thermodynamics modeling of asphaltene precipitation |
| | 12214 | Comparing the Aspects of the UBD Jobs in Iran |
| | 12152 | Investigation of the Effect of Fractures Geometrical Properties on the Efficiency of Top-Down In-Situ Combustion Process in Fractured Carbonate System |
| | 04206 | Compositional Modeling of Molecular Diffusion in Natural Gas Injection of Tight Gas Fractured Reservoirs – Single Block Approach |
| | 04155 | Uncertainty Analysis of Discrete Fracture Network Modeling |
| | 04241 | Compositional Modeling of Multi-mechanistic flow in Natural Gas Injection of Tight Gas Condensate Fractured Reservoirs – Single Block Approach |
| | 12226 | Computation of first order hydrodynamic loads on a large cylinder in the sea due to combined wave and current, using higher order boundary element met |
| | 12223 | Determination of the best gas/oil ratio in miscible gas injection process |
| | 12213 | Development of a Software for Simulation and Design of Sandstone Matrix Acidizing Process |
| | 12141 | Effect of diffusion on minimum miscible pressure (MMP) during CO2 miscible flood: Case study of Iranian oil fields |
| | 12169 | Effect of seals on evaporation loss from the Khark Island crude oil storage tanks |
| | 12134 | Effects of Filtering Techniques on Interpretation of Production Logs Data in Oil Wells |
| | 12149 | Experimental investigation of double gas hydrate formation with or without presence of L-tyrosine as a kinetic inhibitor in a flow mini-loop apparatus |
| | 12148 | Experimental investigation of simple gas hydrate formation with or without presence of L-Tyrosine as a kinetic inhibitor in a flow mini-loop apparatus |
| | 12154 | Experimental Investigation of Using a Type of Soil as an Additive to a Water Base Mud |
| | 12151 | Experimental Study of the Effect of Barriers on Heavy Oil Recovery during Hydrocarbon Solvent Injections |
| 12222 | Implementing Smart Solution for Controlling Water Cut | |
| 12239 | Investigating the Possibility of Optimizing the Water Injection Rate during Waterflooding in Iranian Oil Reservoirs | |
| 12237 | Investigation of Relation between CEC, Clay Swelling and Chemical Formation Damage | |
| 12219 | Prediction of wax precipitation by Neural Network and Genetic Algorithm and comparison with Multisolid model in crude oil systems | |

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| | 12224 | Investigation of the miscible gas injection process for a variety of oil reservoirs |
| | 12159 | Investigation of Water Coning in Fractured Reservoirs Based on Single Porosity Model |
| | 04233 | Modeling of Asphaltene deposition during Miscible CO ₂ flooding |
| | 12175 | Modeling of Wormhole Formation during Matrix Stimulation of Carbonates |
| | 12238 | Optimizing Size Distribution of Limestone Chips and Shellfish as Lost Circulation Materials |
| | 12161 | Prediction of Bubble Point Pressure Using Artificial Neural Network |
| | 12256 | Reservoir Porosity Estimation from Well Logs using Neural Networks |
| | 12227 | Simulation of Miscible and Immiscible Gas Injection in one of Iranian Fractured Oil Reservoirs |
| | 12166 | Studying Effects of Pipe Line flow rate on metering systems in Kharg Island Oil Terminal |
| | 12143 | thermodynamic hydrate inhibitors for preventing of gas hydrates formation in gas pipeline transmission |
| | 12135 | Unsupervised Fuzzy Logic and Neural Network, Valuable Tools for Interpretation of Well Logs |
| | 12160 | Use of Fuzzy Logic for Predicting Two Phase Inflow Performance Relationship of Oil Wells |
| | 12133 | Using Genetic Algorithm for Optimization of Well Placement |
| | 12140 | Using Reservoir Engineering Data to Solve Geological Ambiguities: A Case Study of One of the Iranian Carbonate Reservoirs |
| | 12225 | Utilizing Intelligent Completion for Smart Gas Lifting |

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| Transport Phenomena | 01214 | A comparison between two types of vaned mist eliminators |
| | 01170 | A direct synthesis approach to the PI tuning problem with application to a distillation column |
| | 01134 | A NEW APPROACH FOR ESTIMATING COMPRESSIBILITY FACTOR OF NATURAL GAS BASED ON ARTIFICIAL NEURAL NETWORK |
| | 01238 | Acid Gases Condensation and Cold End Corrosion |
| | 01232 | Analysis of Natural Convection in Square Enclosure with Two Isothermal Discrete Heat Sources on Opposite Vertical Walls |
| | 01128 | Analytical Solution of Plug flow and Axial Dispersion Models in a Packed Liquid-Liquid Extraction Column |
| | 02204 | Analyzing the longitudinal effect and squircle cross section of projectile in shock tube via perturbation method |
| | 01231 | Applicability of the WLF equation to correlation between different evaluating test methods of scratch resistance of automotive coatings |
| | 01224 | Applications of wickless heat pipe heat exchangers in HVAC systems |
| | 01145 | Boundary Layer Convective Heat Transfer with Pressure Gradient Using Homotopy Perturbation Method (HPM) Over a Flat Plate |
| | 01182 | A solar water bath system with thermal fin |
| | 01139 | RHEOLOGICAL BEHAVIOR OF NON-NEWTONIAN NANOFLUIDS |
| | 01259 | Calculation of final temperature in Claus reaction furnace for phase 4&5 south pars gas complex |
| | 01250 | Calculation of the solid solubilities in supercritical carbon dioxide using a modified Wong-Sandler mixing rule |
| | 01240 | CFD Analysis of the Effect of Different Inlet Geometries on Combined Convection Heat Transfer |
| | 01246 | CFD simulation of the gas-solid flow behavior in FCC riser and parametric study |
| 01193 | Experimental study of two phase flow pressure drop and flow pattern in horizontal and incline pipe | |

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| 01239 | Computational fluid dynamic (CFD) modeling of heat transfer phenomenon in the fluidized bed dryer |
| 01211 | Predicting of friction factor in horizontal two phase flow |
| 17219 | Correlated Solubility of Textile Dyes in Supercritical Carbon Dioxide by Several Density-Based Models |
| 01253 | CuO/water nanofluid heat transfer through triangular ducts |
| 01213 | Design of cryogenic system for liquefaction of hydrogen |
| 04140 | Modeling of Liquid Holdup in Horizontal Slug Two-Phase Flow |
| 04218 | Modeling of Carbochlorination of Zircon in Fluidized Bed Reactor |
| 01222 | Effect of functionality of pressure sensitive adhesives on in vitro evaluation of a double layer fentanyl patch |
| 01160 | Effect of HPHE at Efficiency of Air Condition Systems |
| 01173 | Effect of spatial obstacle on optimum location and inclination of solar cell |
| 01257 | Effect of using reflectors inside a basin solar still |
| 01210 | Energy Recovery in Poultry Plants by Heat Pipe Heat Exchangers |
| 01251 | Estimation of Vapor-Liquid Equilibrium of Carbon dioxide with Methanol at High Pressures Using Artificial Neural Network |
| 01206 | Numerical Study of Turbulent Air Flow through the 180 Degree Oscillating Circular- Sectioned Bend |
| 01166 | Evaluation of urea prilling performance in order to decrease tendency caking |
| 01209 | Experimental Investigation of the Permeability Reduction due to Asphaltene Deposition in Porous Media |
| 01127 | Identification of active site in oxidative coupling of methane on silica support manganese catalysts |
| 12136 | Increasing efficiency and concentration cycle of cooling towers and decreasing scale formation risk in heat exchangers |
| 01148 | Influence of Salinity, Surfactants and Power of Homogenizer on Droplet Size Distribution of Crude Oil Tehran Refinery in Water Emulsions |
| 01157 | Propose suitable model for modeling of moisture ratio and estimation of effective moisture diffusivity of onion slices by hot air dryer |
| 01230 | Investigating gas permeation behavior and morphology of PC membranes |
| 07126 | Heat and Mass Transfer in Capillary Porous Media during Drying Process |

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| <i>Separation Processes</i> | 03162 | A CORRELATION FOR SLIP VELOCITY IN HANSON MIXER-SETTLER EXTRACTION COLUMN |
| | 03220 | A Hydrothermal Treatment for Preparation of Mordenite Membranes |
| | 03221 | A New Approach in Classification of Modeling for Reverse Osmosis Process: a Critical Review |
| | 03154 | A new technology for water purification without the use of mixed bed or EDI |
| | 03233 | Adsorption of Cd(II) by dried activated sludge |
| | 03130 | An Experimental and Modeling Investigation on Facilitated Transport Separation of Propylene-Propane Mixture |
| | 03229 | Batch separation of styrene/ethyl benzene/water dispersions |
| | 03219 | Experimental Design to Explore the Effective Parameters in Formulation of Dextran Microspheres via Emulsion Crosslinking Reaction |
| | 03127 | Comparative Study for Nitrogen Production Technologies: Cryogenic, PSA and Membrane |
| | 04213 | The Effect of Different Parameters on Distillation Column Tray Point Efficiency |
| | 03169 | Simultaneously extraction and stripping of iodine in a bulk liquid membrane pertractor |

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| 03246 | Comparison of High & Low Concentrations of Hydrogen Sulfide Removal from Methane Using Commercial Polyphenylene Oxide Hollow Fiber Membrane |
| 03144 | Design of heat integrated distillation systems for a light ends separation section of olefin and gas process plants |
| 03243 | Desulfurization of simulated light fuel oil by adsorption on activated carbon |
| 03208 | Development of the polymeric blend membrane for CO ₂ /N ₂ separation |
| 03204 | OPTIMIZED PRECIPITATION CONDITIONS FOR SELENIUM FROM SAR-CHEHMEH COPPER ANODE SLIMES LEACHING SOLUTION |
| 03171 | Drying of potato sample, theory and experiment |
| 03138 | Effect of Non Solvent Additives and Volatile Solvents on the Performance of Polysulfone Flat Sheet Gas Separation Membrane |
| 03158 | MORPHOLOGICAL ANALYSIS OF PVP COMPOSITE MEMBRANES FOR FACILITATED TRANSPORT PROCESS |
| 03211 | Effect of Si/Al Ratio on CO ₂ - CH ₄ Adsorption and Selectivity in Synthesized SAPO-34 |
| 03223 | Effect of Silica Nano Particles on Gas Separation Properties of Polyurethane Membrane |
| 03234 | Chemical cleaning of ultrafiltration membrane after treatment of oily wastewater |
| 03105 | Effects of microwave radiation on nanofiltration membrane morphology |
| 03232 | Enhanced flux and improved selectivity using two type of zeolite layer at feed and permeate side of membrane |
| 03239 | evaluation of morphology and performance of polyethersulfon reverse osmosis composite membranes |
| 03213 | Experimental and Modeling Technique for Liquid Holdup between Spherical Particles |
| 03149 | Experimental Investigation of Phase Inversion in a Hanson Mixer-Settler |
| 03231 | extraction of canola oil with supercritical carbon dioxide: experimental and modeling |
| 03148 | Influence of Mass Transfer on Flooding Velocity in Pulsed Columns |
| 04161 | Investigation of different methods for Reverse Osmosis membrane modules Network design |
| 03214 | Kinetically Controlled O ₂ - N ₂ Adsorption for Air in a Carbon Molecular Sieve |
| 03218 | Leaching process for extraction of cobalt from spent Co/Al ₂ O ₃ catalysts |
| 03150 | Liquid-Liquid Extraction in an Impinging-Jets Contacting Device and the Influence of Aqueous Phase pH |
| 03244 | Mathematical modeling of dehydration of THF+water in a fixed bed column |
| 04173 | Mathematical modeling of supercritical fluid extraction of acorn oil |
| 03156 | Membrane separation modeling of propylene and propane in mixture with nitrogen |
| 03205 | Methods for Separation of Substances By Using Mesoporous Material and Procedure of Making Them |
| 03161 | Modeling and Simulation of Adsorption of methane / ethane mixture on the activated carbon and carbon molecular sieve |
| 03166 | Numerical study of dispersion velocity in turbulent flow and the effects on separation efficiency in a cyclone separator |
| 03136 | Oxygen permeation study of synthetic mixed-conducting ceramic membranes |
| 03108 | PERVAPORATION SEPARATION OF BENZENE/CYCLOHEXANE MIXTURES USING MATRIMID® POLYIMIDE MEMBRANES |
| 03137 | Pervaporation separation of n-hexane/thiophene mixtures with PDMS/PA membrane |
| 03209 | Precipitation pool design and study of physical water treatment for decarbonizes water production unit |
| 03140 | Prediction of Mean Drop Size in Pulsed Packed Extraction Columns |
| 03247 | Evaluation of Different Polymeric Membranes Performances in Microfiltration of Rough Non-Alcoholic Beer |

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| | 03151 | Prediction of Overall Mass Transfer Coefficients in a Pulsed Perforated Plate Extraction Column |
| | 03215 | Preparation of Nanopore Zeolite membranes from kaolin |
| | 03146 | Removal of Cobalt from Wastewater by Emulsion Liquid Membrane |
| | 03165 | Removal of High Concentration of Hydrogen Sulfide from Methane Using Commercial Polyphenylene Oxide hollow fiber and Poly Ester Urethane Urea Flat Membranes |
| | 03176 | Simultaneous Effects of Ionic Surfactant and Salt on Drop-Interface Coalescence |
| | 03117 | Mathematical simulation of behavior of sunflower oil extraction by supercritical carbon dioxide |
| | 03159 | The Comprehensive Concept of Urea Thermal Hydrolysis in Industrial Urea Wastewater Treatment |
| | 03212 | THE INFLUENCE OF MEMBRANE PREPARATION PARAMETERS ON CHITOSAN MEMBRANE MORPHOLOGY |
| | 03230 | The Possibility of Using Thioglycolic acid instead of sodium sulfide in the Molybdenum Enrichment Plant of Sarcheshmeh Copper Complex |
| | 03153 | The role of metal hydrogensulfates on the acceleration of some organic reactions and especially, separation processes of products. |
| | 03142 | the use of dextran and flocculant with the goal of performance optimization of kelly filters |
| | 03236 | USING MIXED AMINE SOLUTION FOR GAS SWEETENING |
| | 03206 | Using PERVAP 2201 Membrane in Vapor Permeation Facilitated Isopropanol® Propionate Production through Esterification Reaction |
| | 04174 | Vetiver oil extraction Optimization using supercritical fluid |
| | 03155 | Supercritical carbon dioxide extraction of Ferulago Angulata essential oil |

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| <i>Polymer Engineering & Technology</i> | 11173 | Ethylene Polymerization Process With a New Ti-based Ziegler-Natta catalyst |
| | 17125 | Evaluation of ETFE Specifications as Cover of Stadiums Against Effective Climatic Factors |
| | 04277 | Evaluation of Solid Substance Conveying Zone in Extruders and Modeling the Pressure Pattern and Compare it with Experimental Results in this Area |
| | 11235 | Influence of HDPE Content in Shear Rheology of its Blends with LDPE |
| | 11177 | Influence of steric stabilizer on the properties of polyaniline/polyacrylonitrile nanocomposite |
| | 04209 | Numerical modeling of reactive polymer flow in porous media |
| | 11185 | Photo-oxidative Degradation of LDPE in the Presence of Cobalt Naphthenate and 2- Benzoylbenzoic Acid |
| | 11161 | Preparation and characterization of polyaniline colloids by using various steric stabilizers |
| | 11228 | synthesis of mesoporous-catalyst-support-silica particles by sol-gel process |
| | 11125 | Preparation of Polyaniline/Polystyrene Nanocomposites Using Various Surfactants in Aqueous Media |
| | 11194 | RAFT Miniemulsion polymerization of styrene-co-butyl acrylate. A synthetic route to precise copolymer structure |
| | 11196 | Effect of emulsifier and initiator concentration in semi-batch emulsion copolymerization of butyl acrylate and glycidyl methacrylate |
| | 11220 | Recycling of Off Spec EPS in HIPS |
| | 11243 | Synthesis of High Solid-Content Anisotropic Nanoparticles by Cosurfactant Free Microemulsion Polymerization |
| | 11175 | Shear bond strength of resinous systems used dry and underwater concrete repair |
| | 11179 | Studying the effect of compounding ingredients on tearing behavior of rubber |
| 11176 | Studying the properties of polyaniline nanocomposite synthesized in various volume ratios of water/tetrahydroforan solution | |

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| | 11181 | Studying the some properties of Aniline and Vinyl acetate nanocomposite generated in aqueous/non-aqueous media |
| | 11203 | Swelling behavior of pH-sensitive semi-interpenetrating network micro/nano hydrogels composed of poly (vinyl alcohol) and |
| | 11216 | Swelling Rate Analysis of Acrylamide-Based Hydrogels in Distilled Water and Various Solutions and Determination of Diffusion Coefficient |
| | 11218 | Swelling Rate Analysis of Anionic Hydrogels in Distilled Water and Various Solutions with Various Ionic Strengths |
| | 11188 | Synthesis and characterization of copolymer of polyaniline by emulsion polymerization pathway in aqueous and aqueous/non-aqueous media |
| | 11242 | Synthesis and Characterization of New Proton Conducting Hybrid Membranes for DMFC Fuel Cells Based on Poly(vinyl alcohol) and Sulfonated Nanoporous Silica |
| | 11195 | Control System Design for Compressibility Test of Semi-Elastic Materials |
| | 11232 | Synthesis of New Sulfonated Copolyimides with Built In Ether and Oligo Ethylene Glycol Sequence |
| | 11239 | Synthesis of Polyaniline nanocomposite using HPC in aqueous medium |
| | 11202 | Synthesis of zeolite-based nano-composite hybrid hydrogel and its sorption capability on methylene blue |
| | 11169 | Studying Polymer Miscibility by Dissipative Particle Dynamics |
| | 11155 | THERMAL AND MORPHOLOGICAL PROPERTIES OF THERMOPLASTIC ELASTOMER NANOCOMPOSITES BASED ON PA6/NBR |
| | 11200 | Uptake of cationic dye from aqueous solution by absorption onto granular semi-interpenetrating hydrogels |
| | 11171 | using polymers as a binder to improvement of green strength of tableware |
| | 11226 | A Method for Synthesis a High Density Polyethylene by Coordination Polymerization |
| | 11223 | Advanced Catalyst/Process Combinations for Polyethylene |
| | 11167 | Bimodal Polyethylene Technology |
| | 11126 | Comparison between characteristics of polyaniline composites in aqueous/non-aqueous media |
| | 11197 | Controlled release of nitrate fertilizers by using acrylate-zeolite nano-composite hybrid hydrogels |
| | 11222 | Effect of organoclay on the morphological, rheological and mechanical properties of low density polyethylene/ethylene-vinyl acetate blend |
| 11221 | EFFECTS OF CATALYST PRE-CONTACT PROCEDURE ON KINETICS, PROPERTIES AND MORPHOLOGY OF PROPYLENE POLYMERIZATION | |
| 11231 | Effect of the shear rate and stabilization temperature on the foam density | |
| 11193 | investigation of synthesized acrylic terpolymers (MMA,BA,AA) paint properties | |
| 11212 | Using the transient metal-ligand interaction to formation of metallo-supramolecular hydrogels: Kinetics' study | |

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| Environmental Engineering | 13143 | Adsorption Characteristics of Nickel onto Expanded Perlite from Aqueous Solution |
| | 13152 | Adsorption of volatile organic compounds from aqueous solution by granular activated carbon (GAC) |
| | 13141 | Application of Taguchi method in the optimization of treatment of wastewater contaminated with MTBE by UV/H ₂ O ₂ process |
| | 13229 | Application of water super absorbents in biofiltration of n-hexane from air streams |
| | 13215 | Biodiesel production from used cooking oils |
| | 14216 | Co ₂ sequestration in ocean in different form |
| | 13164 | Comparing Performance and Re-acclimation of Two Phase Partitioning Bioreactor and Ordinary Bioreactor under Starvation Period |
| | 13155 | Comparing the influence of nitrogenated and oxygenated additives on diesel fuel properties, combustion performance and emissions |

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| 13214 | Comparison of Photocatalytic and sonocatalytic removal of methylene blue with titanium dioxide nanopowder |
| 13225 | Evaluation of the contents of MTBE and Benzene in Tehran's atmosphere |
| 13239 | Pollution measurement by mass balance and emission factors in South Pars Gas Complex |
| 13150 | Improvement of Wastewater Treatment Section of Old Urea Plant to Satisfy New Environmental Standards |
| 13224 | Influence of Impregnation Ratio on the Properties of Activated Carbon Prepared via ZnCl ₂ Activation |
| 13157 | Investigation of the activated carbon efficiency on removal of DNBP from aqueous solution by adsorption method |
| 13154 | Investigation on effect of Mn and Ce metal additives on diesel fuel properties and emissions |
| 13248 | Optimization of bagasse pretreatment for production of bioethanol with the help of ultrasound energy by Taguchi method |
| 13237 | Optimization of photocatalytic oxidation by using of artificial network and genetic algorithm |
| 13165 | Photocatalysis Remediation of Organic Dyes under Sunlight |
| 13167 | Potential of Gas Hydrate Method to Capture CO ₂ |
| 13235 | Preparation of a novel catalyst (nano TiO ₂ on Clinoptilolite) for catalytic Oxidation of Oxygen-Containing Volatile Organic Compounds |
| 13145 | Determination of Iron (III) Ions in Water Samples with a Fe ³⁺ -PVC Membrane Sensor |
| 04185 | Effect of pulverized coal combustion to reduce pollutants |
| 13144 | Evaluating the trickling filter performance in achieving nitrite pathway using dissolved oxygen analysis |
| 13219 | Preparation of nanopore MFI zeolite membranes for water Desalination |
| 13240 | Recycling of plastic wastes to valuable chemicals via syngas: A thermodynamic analysis |
| 13159 | Simultaneous minimization of water and energy in process plant |
| 13244 | Study of decolorization of C.I. Basic Red 46 from contaminated water by UV/peroxydisulfate /photocatalyst process |
| 13242 | Study of preparation and characteristics of starch-Based film single packing container |
| 13117 | Synthesis and Characterization of a Biopolymer-Nano Zeolite Composite Adsorbent for Uptake of Heavy Metal Ions |
| 13161 | The removal of carbon monoxide by bio trickling filter |
| 13146 | the study of caustic recovery increase in settling and decreasing the destructive environmental effects in alumina factory |
| 13218 | TPH bioremediation by microbial consortium isolated from oil contaminated soil |
| 14153 | Use of agricultural waste for removal of Cr(VI) from aqueous solution |
| 13246 | Waste Management in Temad Pharmaceutical Company (Case Study) |
| 13249 | Process selection for municipal wastewater treatment plants in Iran |
| 13220 | Numerical Solution of Direct Methanol Fuel Cell Model |
| 13250 | Study of Enhanced Bioremediation in Treatment of Gas Condensates Contaminated Soil |
| 13217 | Removal of C.I. Basic Yellow 2 from contaminated water using UV/ peroxydisulfate process in a rectangular continuous photoreactor |

Wednesday, November 18, 2009

| Subject | Code | Title |
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| <i>Thermodynamics</i> | 02127 | A New Adsorption Isotherm using the Vacancy Solution Theory |
| | 02215 | A new approach using adaptive neuro-fuzzy inference system for estimation of vapour liquid equilibria for the system Carbon Dioxide–Difluoromethane |
| | 02148 | An Intelligent Approach to Estimate Pressure-Volume-Temperature Properties in the System of Methane-Tetrafluoromethane: Densities and Compressibility |
| | 02243 | Application of a new association equation of state for prediction of asphaltenes and resins deposition |
| | 02147 | Application of adaptive neuro-fuzzy inference system for estimation of vapor+ liquid equilibria of binary systems, carbon dioxide–ethyl caproate, eth |
| | 02150 | Comparison between obtained Lennard-Jones and Kihara parameters of methane and nitrogen using P-V-T data |
| | 05119 | Computational Studies on Molecular Structure and Properties of Dibenzothiophene in Petroleum Fluid |
| | 04234 | Computer Simulation of the N ₂ and O ₂ Adsorption Properties of Zeolite Ag, Li-LSX |
| | 02135 | Determination of solubilities of cinnamic acid, phenoxyacetic acid and 4-methoxyphenylacetic acid in Sc-CO ₂ using three mixing rules |
| | 02221 | Dielectric study on binary mixtures of (Ester-Alcohol) |
| | 02156 | Effect of Mixed Thermodynamic and Kinetic Hydrate Promoters on Kinetics, Stability and Storage Capacity of Methane Hydrate |
| | 02132 | Effect of various types of equations of state for prediction of gas consumption in simple gas hydrate formation with or without presence of kinetic in |
| | 02218 | Energy and Exergy Analysis of the Butadiene Purification Plant at BIPC in IRAN |
| | 17181 | Estimation of critical property data of DMAE by group-contribution |
| | 02145 | Estimation of vapour liquid equilibria for the Sulfur Dioxide–difluoromethane system using adaptive neuro-fuzzy inference system |
| | 02244 | Experimental Study of Methane Hydrate Formation in Water in the Presence of Thermodynamics and Polymeric Inhibitors |
| | 02237 | Experimental Study on the Effects of Mechanical Parameters in Methane Gas Hydrate Formation |
| | 02124 | GROUP CONTRIBUTION METHOD FOR PREDICTING PHASE BEHAVIOR OF BINARY MIXTURES CONTAINING CARBON DIOXIDE |
| | 02122 | Isobaric VLE for the binary systems of diisobutyl ether+ 2-ethyl-1-hexanol and dibutyl ether+ 2-ethyl-1-hexanol |
| | 02134 | Liquid-liquid equilibria of ternary system of (n- formylmorpholine + benzene + hexane) at T = (303.15 to 313.15) K |
| | 02129 | Measurement and modeling of solubilities of ibuprofen in supercritical carbon dioxide using Stryjek and Vera EoS |
| | 02205 | Modeling of co-precipitation of resin and asphaltene in crude oil by association equation of state |
| | 02241 | Modification of SRK EOS for prediction of thermodynamic properties of fluids near critical point |
| | 02151 | New Correlations for Prediction of Critical Constants |
| | 02133 | prediction of gas hydrate forming conditions by using PR equation of state and different mixing rules |
| | 02217 | Prediction of Liquid–Liquid Equilibria of Binary Systems Containing Alcohols using EoS-GE Models |
| 05122 | prediction of vapor liquid equilibrium of CO ₂ +1-pentanol and CO ₂ +2-pentanol, using artificial neural network | |
| 02121 | Study of phase equilibria of ternary system of (water+ acid propionic + toluene) and (water+ acid propionic + p.xylene) at 303.2 K | |
| 02213 | Thermodynamic Analysis of Direct Partial Oxidation of Methane to Benzene | |

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| 02228 | Thermodynamic modeling of the pure and binary adsorption equilibria using two dimension equations of state |
| 02245 | Prediction of Enthalpy of Solvation for organic solutes and gases Dissolved in Solvent (N,N-dimethylformamide and tert-butanol) With Combining Genetic |
| 02139 | Thermodynamic Properties of Glycols Using PC-SAFT |
| 01181 | Densities, Excess Molar Volumes, Viscosity and Refractive Indices of Binary Liquid Mixtures of Acetic acid (1) + m-Xylene (2), Acetic acid (1) + o-Xy |
| 02128 | UNIQUAC-NRF Model for the Correlation of the Mean Activity Coefficient of Electrolyte Solutions |
| 08128 | Investigation of Surfactin Behavior at the Water/Oil Interface: A Molecular Dynamics Simulation Study |
| 02125 | Application of GMDH-Type Neural Network to Prediction of Liquid-Liquid Equilibrium for System Water + Ethanol + Trans-Decalin |
| 02220 | Using NRTL Thermodynamic model for predicting phase equilibrium of Xylene Isomers |

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| <i>Transport Phenomena</i> | 02234 | INVESTIGATION ON COOLING POTENTIAL OF EVAPORATIVE WATER COOLER TO PRODUCE CHILLED WATER |
| | 02232 | Investigation on the Effects of Flow Direction and Characteristics of Direct Evaporative Cooler (DEC) on Thermal Performance |
| | 04175 | Mathematical modeling and experimental validation of ice melting processes |
| | 01129 | Mathematical Modeling and Numerical Solution of Differential Equations of Concentration in a Packed Column |
| | 01171 | Measurement and study on the thermodynamic properties of binary systems of propylacetate, 2-butanol and 2-pentanol at T=298.15K. |
| | 17180 | Measurement of polarization curve and development of a semi empirical model for a single polymer electrolyte membrane fuel cell (PEMFC) |
| | 17128 | Microstructure of Inorganic Polymeric Binder Based on Natural Pozzolan |
| | 05206 | An Inverse Boundary Design Problem in a Radiant Enclosure |
| | 01137 | Modeling of Mass Transfer Coefficients for Osmo-Dehydrated Fruits with Edible Coatings |
| | 01156 | Modeling of moisture ratio and shrinkage of onion slices during hot air drying |
| | 01175 | Modeling of reactive dividing wall batch distillation column with Ethyl acetate synthesis |
| | 01195 | Molecular Dynamics Simulations of Dynamics and Diffusion Coefficients of Tetrabutylphosphonium Amino Acid Based Room Temperature Ionic Liquids |
| | 04212 | On Simulation of the Droplet Vaporization under the Influence of Forced Convection |
| | 01254 | Optimization of Steam Network in Shiraz Refinery Utility Systems, Using Variable Physical Properties |
| | 17131 | Organo-modified Bentonite as an admixture for Portland Cement Mortar |
| | 01179 | Poly (vinyl alcohol)/ Chitosan metal adsorbents: preparation and properties |
| | 17127 | Durability of Portland Cement Blended with RFCC Spent Catalyst Exposed to Sea Water Attack |
| | 17129 | Determining the Optimum Dosage and Composition of Activator for Alkali-Activated Blast-furnace Slag |
| | 17132 | Important Engineering Properties of Natural Pozzolan Activated with a Solid Compound Activator |
| | 17130 | Portland Cement Paste Modified by Polyvinyl Alcohol Acetate |
| | 01187 | Powder mixing and influence of solvent on mixture quality in the production of amlodipin tablet |
| | 01135 | PREDICTION OF DIMETHYL ETHER DENSITY USING ARTIFICIAL NEURAL NETWORK |
| | 01169 | Prediction of Flooding in a Hanson mixer-settler extraction column |
| 01121 | Pre-feasibility study for construction of a unit for styrene extraction from pyrolysis gasoline in the south parts of Iran | |
| 01154 | Preparation of Nano pore mordenite membranes for dehydration of water-UDMH mixtures | |

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| | 01143 | Pressure Drop of Nanofluid through a Shell and Tube Heat Exchanger |
| | 01203 | Propose an empirical model for mean drop size in a mixer-settler extractor with anionic surfactant |
| | 01168 | Review on Forced Convective Heat Transfer of Nanofluids |
| | 16117 | Reynolds Number Effect on Optimization of Pressure Drop and Thermal Efficiency in Cyclic Thermal Regenerators with Axial and Radial Heat Dispersion As |
| | 01144 | Study on Mixing Power Consumption in a Dual Rushton Stirred Tank |
| | 01165 | Supercritical Extraction Modeling On Plant Oil by Using Equations of State |
| | 01204 | The effect of anionic surfactant concentration on mean drop size in a mixer-settler extractor without mass transfer |
| | 01220 | The experimental study of effective parameters on mean drop size in mixer settler |
| | 01141 | The Influence of Si/Al ratio on the Aromatic Adsorption from Aromatic/Alkanes Mixture by BETA Zeolite |
| | 01248 | Thermophoretic deposition of aerosol particles in laminar mixed convection flow in a channel with two heated built-in square cylinders |
| | 01147 | Using chemical blowing agent systems based on azodicarbonamide for producing polyethylene foams |

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| <i>Nanotechnology</i> | 10133 | A Comparative Thermal Survey on TiO ₂ and SnO ₂ Nanofluids' properties |
| | 10242 | An experimental design approach to determine the effect of process parameters on the properties of hydroxyapatite nanoparticles |
| | 10154 | Calculation of water molecules properties in the single wall carbon nanotube |
| | 10223 | Characterization and Catalytic Activity of CeO ₂ /Al ₂ O ₃ Nano-catalyst on VOC Abatement |
| | 10159 | Characterization of Polyaniline nanocomposites in water/methanol solution using various surfactant |
| | 10126 | Characterization of Electrospun Nanofibers |
| | 10167 | Comparative study of SiO ₂ nanofluid: experimental and theoretical investigation |
| | 10141 | Effect of a magnetic field on the copper oxide/water nanofluid heat transfer enhancement in two-phase closed thermosyphon |
| | 10231 | Electrocatalytic determination of phenylhydrazine on tin hexacyanoferrate nanoparticles modified carbon ceramic electrode |
| | 10243 | Heat transfer in water-based nanofluids |
| | 10244 | Preparation of epoxy-modified carbon nano tube composites based on reaction in dispersion stage |
| | 10113 | HYDROTHERMAL SYNTHESIS OF COPPER OXIDE NANOPARTICLES AT SUPERCRITICAL CONDITIONS |
| | 10239 | Morphological investigation of Nafion/TiO ₂ nanocomposite membranes of PEM Fuel Cell |
| | 10227 | Fabrication of Highly Stable Platinum Nanoparticle via Microemulsions |
| | 10148 | Nano Haloing in Stabilization of Colloidal Microspheres |
| | 10180 | Preparation and characterization of noncovalent nanohybrid of ferrocene with MWCNTs on carbon-ceramic electrode and enhanced electrochemical property |
| | 10162 | Investigation of Convective Heat Transfer in Nanofluids by Finite Element analysis |
| | 10158 | preparation and characterization of protein nanoparticles from human serum albumin (HSA) as a novel drug delivery system |
| | 10221 | Preparation and Properties of Nanostructured Rubber-Clay Composites by Two Different Mixing Methods |
| | 10179 | Prparation of magnetite nanoparticles containing polymerizable functional groups |
| 10169 | Simulation and Optimization of RESS Process in Engineering Nanoparticles Synthesis | |
| 10156 | Sonochemical Reduction of Silver Ions in | |

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| | 10213 | Stability of Antibacterial Effect of PP/Nanosilver Nanocomposites Thin Film Prepared by Melting Method |
| | 10161 | Study of CH ₄ -CO ₂ Binary Adsorption Equilibria in MWCNT-OH by Excess Gibbs Energy Models |
| | 10147 | Studying the adsorption of PEG and PVA on the Zinc oxide nanoparticles |
| | 10170 | Synthesis of carbon nanotubes by Arc-discharge in water: a novel double wall beaker set-up |
| | 10220 | Synthesis of CeO ₂ Nano-catalyst via Precipitation Method for Total Oxidation of Toluene |
| | 10131 | Synthesis of Nanocrystalline Magnesium Oxide with Plate-Like Shape |
| | 10216 | Synthesis of T type Zeolites for Effective Separation of CO ₂ from Natural Gas |
| | 10238 | Synthesis of WO ₃ Nanoparticles via Reverse Micelle Method as a catalyst application |
| | 10130 | Synthesis of ZnO nanoparticles using Microwave in the presence of |
| | 10163 | The effect of various solvents on physical properties of the ambient pressure dried silica aerogels |
| | 10134 | Thermo-physical properties of nanoparticles/fluid suspension |
| | 10168 | Thin film composite co-polyamide nanofiltration membrane:preparation and characterization |
| | 10117 | β -Carotene nanoemulsions prepared by spontaneous emulsification process |

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| <i>Kinetics, Catalysis & Reactor Design</i> | 06138 | A comparison study of different metal washcoating methods |
| | 06176 | A Mechanochemical Reaction for Highly Efficient Preparation of 1, 1'-Bi-2-naphthol from 2-Naphthol |
| | 06132 | Advantages of Zeolite Catalysts over Chlorinated Alumina Catalyst in Naphtha Isomerization Process |
| | 06150 | An investigation of influence of copper on the redox properties and catalytic performance of LaMnO ₃ + λ perovskite- type catalyst |
| | 06233 | Application of bimetals for catalytic oxidation of volatile organic compounds |
| | 05124 | Carbon disulfide production via hydrogen sulfide methane reformation |
| | 06128 | Catalytic hydrogenation of dimethyl-nitrobenzene to Dimethyl-aniline over Ni catalysts |
| | 01205 | Catalytic Trimerization of Ethylene for producing Hexene-1 based on Chromium Catalyst |
| | 06115 | Chemical Role of Alkali Ion by In Situ Electrical Conductivity-Catalytic Performance Studies of (Mn+A+W)/SiO ₂ Catalysts for Oxidative Coupling of Meth |
| | 06110 | Methanol conversion to light olefins utilizing metal-mordenite catalysts |
| | 06151 | Deactivation behavior of Co-Ru/ γ -Al ₂ O ₃ Fischer-Tropsch synthesis catalyst along the catalytic bed |
| | 06121 | Co-Mo bimetallic nitride catalyst for ammonia synthesis |
| | 06154 | Comparative study on the Overall Kinetic Modeling of OCM by Genetic and Marquardt Algorithms |
| | 06224 | Comparison of the performance of the Ni/La ₂ O ₃ Rh/La ₂ O ₃ and LaNiO ₃ catalysts in dry reforming of methane |
| | 06235 | DEACTIVATION MODELING OF COBALT CATALYSTS SUPPORTED ON CARBON NANOTUBES IN FISCHER-TROPSCH SYNTHESIS |
| | 06165 | Development of a Discrete Kinetic Model for Modeling of Industrial Hydrocracking Reaction Accompanied With Catalyst Deactivation |
| | 06149 | Development of a model for Determination of Yield Distribution and coke formation in thermal cracking of atmospheric gasoil |
| | 06161 | Effect of competitor adsorbates on platinum adsorption in Pt/ θ -alumina catalyst |
| | 06220 | Effect of excess palladium on the activity of perovskite catalysts for Oxidation of exhaust gas pollutants emitted from natural gas fueled vehicles (N |

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| 06230 | Effect of Manganese Oxide Addition on Structural and Redox Property of LaCoO ₃ Perovskite |
| 06239 | Kinetic study of different Ziegler-Natta catalysts for propylene polymerization |
| 06133 | Effect of Mordenite Catalyst types on Dehydration of Methanol to Dimethyl Ether |
| 04214 | Effect of the heating method on the performance of hydrodesulphurization reactive column |
| 06175 | Effect of vibration frequency and molar ratio of reactants on solid state reaction oxidative coupling of 2-naphthole with FeCl ₃ |
| 06231 | Effects of Ceria addition on the structural properties of LaCoO ₃ perovskite |
| 01243 | Effects of Manganese substituted Lithium or Magnesium of SrMnO ₃ perovskite on Light off Temperature of CO and Hydrocarbon Oxidation |
| 06222 | Effects of precursor anion on performance of catalysts of Oxidative Coupling of Methane (OCM) |
| 04156 | Enhancement of Methanol Production in a Single-Type Reactor with CO Injection |
| 06177 | Evaluation of Mn-Cu and La-Mn-Cu mixed oxide catalysts for efficient CO oxidation |
| 06143 | Exhibition and Evaluation of Kinetic Model in Direct Conversion of Methane to Methanol |
| 06212 | Hydrogenation of dimethyl-nitrobenzene to dimethyl-aniline in a three-phase Reactor |
| 06164 | Integration of oxidative coupling of methane (OCM) and dehydrogenation of ethane for enhancement of C ₂ H ₄ yield over Mn-Na ₂ WO ₄ /SiO ₂ catalyst |
| 06146 | Investigation and parametric study of hydrocraker catalyst activity in Iran-Arak Shazand Refinery Company |
| 13149 | Investigation of deactivation of Cr- ZSM-5 zeolite during catalytic oxidation of ethyl Acetate in a fixed bed reactor |
| 06167 | Investigation of polymerization conditions on polyethylene properties Synthesized by Bis-2PhIndZrCl ₂ Metallocene Catalyst |
| 06148 | Kinetic model for gasification of ethylbenzene dehydrogenation catalyst by oxygen |
| 06234 | Kinetic modeling and prediction of the deactivation mechanism in zeolite-catalyzed alkylation of isobutane with 2-butene |
| 06158 | Kinetic Study of CO Hydrogenation Reaction over Cobalt Catalyst without inhibitor and Support |
| 06159 | Kinetic Study of CO Hydrogenation Reaction with Cobalt Catalyst with Titania Support (Co/TiO ₂) |
| 06225 | Kinetic study of styrene – butadiene rubber (SBR) epoxidation with Dimethyldioxirane (DMD) and phase transfer catalysis method |
| 06178 | Kinetic study of the catalytic partial oxidation of methane to synthesis gas |
| 04146 | Mathematical Modeling Of Fluidized-Bed Reactors, Application For The Reduction Of Iron Ores |
| 06112 | Maximization Of Propylene In FCC Process By Adding ZSM-5 Additive to FCC Catalyst |
| 06238 | MODELING COMPLEX HETEROGENEOUS CATALYTIC PROCESSES USING NON-LANGMUIR APPROACH |
| 06211 | Modeling of an adiabatic fixed-bed reactor for methanol dehydration to DME |
| 06130 | Modeling of ethane hydrate decomposition kinetics based on chemical affinity |
| 06160 | Modeling of non-adiabatic reactors, used in Di-Methyl Ether (DME) synthesis |
| 04270 | Modeling of a Catalyst Pellet with Non-Uniform Activity Distribution in Fischer-Tropsch Synthesis |
| 06162 | Oxidative Coupling of Methane on Sr/La ₂ O ₃ catalyst prepared by Precipitation Method |
| 06228 | PREPARATION AND EVALUATION OF MONOLITHIC CATALYSTS FOR STEAM REFORMING OF METHANE |
| 06147 | Preparation of Bi-supported Ziegler-Natta catalysts of MgCl ₂ /SiO ₂ for Ethylene polymerization |
| 06119 | Side reactions in dehydrogenation of propane to propylene over Pt-Sn/Al ₂ O ₃ catalysts |
| 06218 | Sorption-Enhanced Steam Methane Reforming with Hydrotalcite as a CO ₂ Sorbent |

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| | 06136 | Study of the effect of external and internal diffusion of the Pt-Sn/Al ₂ O ₃ in propane dehydrogenation via experimental approach |
| | 06227 | Synthesis of MTO catalyst for enhancement of light olefins selectivity; study the effect of crystallization time, agitation and template ratio |
| | 06169 | The Influence of THF contents performance of LC2253 as catalyst in ethylene dimerization reaction |
| | 06216 | Synthesis and Characterization of H-ZSM-5 Catalyst and Its Application for dehydration of methanol to dimethyl ether |
| | 06217 | Photocatalytic degradation of 4-Nitrophenol as a model contaminant in a quartz tubular continuous-flow photoreactor with supported TiO ₂ nanoparticles |

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| Bioprocess Engineering & Biotechnology | 08131 | A Microcosm Study on P-nitrophenol Biodegradation in Slurry Phase by <i>Alcaligenes faecalis</i> and Screening of Effective Factors |
| | 08125 | Bioethanol production from lignocellulosic biomass: Modeling of pretreatment step |
| | 08219 | Biosynthesis and Comparison silver nanoparticles production by <i>Fusarium oxysporum</i> in the presence of silver nitrate and sulfate |
| | 08110 | Development an efficient method for over-production of human granulocyte colony stimulating factor (G-CSF) by HCDC of recombinant <i>E. coli</i> |
| | 08222 | Effects of Flow Conditions and Mass Transfer on SRB Corrosion of Water Injection Piping System in Dorod 3 plant of Iranian Offshore Oil Company |
| | 08217 | Kinetics of styrene biodegradation by an industrial activated sludge |
| | 08220 | Optimization of alpha amylase production by solid-state fermentation of <i>Bacillus sp.</i> KR-8104 in a laboratory scale packed bed bioreactor |
| | 08126 | Optimization of Plant Peroxidase Purification |
| | 08210 | Production of biodiesel from microalgae with <i>Rhizopus oryzae</i> immobilized cells |
| | 08130 | Screening Effective Factors in Slurry Phase Bioremediation of TNT Contaminated Soils |
| | 08227 | Stabilization of Oil-Water Emulsions by Production Bioemulsifier from Proprietary Bacteria Species |
| | 08216 | Statistical Optimization of Media Compositions for Anaerobic Decolorization of Reactive Black 5 |
| | 08215 | Study of biological processes of gas sweetening and sulfur recovery |
| | 08224 | Study of Parameters Affecting the Degradation of Reactive Red 198 in a Sequential Anaerobic-Aerobic Process Using Activated Sludge |
| | 08137 | Environmental Bioremediation Using BioSurfactant |
| 08211 | Using Biocide Materials for Remove Pollution from Anion Resins Packed Beds | |

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| Biomedical Engineering | 09212 | Preparation and Stabilization Methods of Liposomes as drug carriers |
| | 04139 | Pulsatile Hydrodynamic Model of Cerebrospinal Fluid within the Human Ventricular System |

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| HSE | 07132 | A modified risk matrix method for determination of safety integrity levels (SILs) |
| | 14115 | Chemical Destruction of Unsymmetrical Dimethyl Hydrazine in Industrial Waste Water |
| | 14141 | Gas pipeline leak detection system |
| | 14154 | Risk analysis of a distillation column's feed using Hazop procedures |

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| Modeling, Simulation & Control | 05118 | Adaptive Differential Evolution (ADE) for optimization of Non-linear chemical processes |
| | 05120 | Analysis of Entrance Chamber Design Effects on De-oiling Hydrocyclone Separation Efficiency with CFD Simulation |
| | 04223 | Analyzing and Simulating a Heat Exchanger by LQG Controller Using MATLAB® |
| | 04273 | Ant colony Optimization of water usage and treatment networks |
| | 04235 | Application of Artificial Neural Network for modeling of the ABS latex coagulation processes |
| | 04149 | CFD modeling of particle rotation for segregation in bubbling gas-fluidized beds |
| | 04261 | CFD simulating of hydrodynamic and mass transfer in airlift reactors and effect of bubble size |
| | 04162 | Comparison between Back propagation, Elman and Radial Basis Function (RBF) networks in modeling of Tehran refinery hydrocracking unit |
| | 04220 | Control of unstable delayed multivariable processes |
| | 04125 | Designing MPC schemes for control of recombinant E. coli fed-batch cultivation |
| | 04222 | Dual Composition Control of a Distillation Column Using Proportional-Integral-Plus (PIP) Control |
| | 04282 | Dynamic evolution of droplet/particle size distribution in suspension polymerization of styrene |
| | 04136 | Dynamic Modeling and Simulation of DME Synthesis in Fixed bed reactor |
| | 04227 | Dynamic simulation of multi-effect falling-film evaporator: Milk powder production plant |
| | 05213 | Educational Software for Simulation of Interacting Population Models |
| | 04191 | Evaluation of Test Signal Effects on Ill-Conditioned Process Identification With Focus on Prediction Capabilities |
| | 04239 | Fuzzy self-tuning PID control of an unstable continuous stirred tank reactor |
| | 04224 | Long term static modeling of Arak refinery hydrogen plant and prediction of temperature and conversion profile in the reformer tube |
| | 01188 | Mathematical Modeling and Simulation of Bed-to-Surface Heat Transfer in Fluidized Beds |
| | 01189 | Mathematical Modeling and Simulation of Two-Zone Fluidized Bed Reactors for Catalytic Propane Dehydrogenation |
| | 04164 | Modeling of apple drying using artificial neural network(MLP) |
| | 04195 | Modeling of Methanol-Steam Reforming Catalytic Reactor to Produce Hydrogen: Determination of Optimum Conditions |
| | 04131 | Modeling of MSMR Potassium Nitrate Crystallizer |
| | 04199 | Modeling Phase Equilibria of polyethylene solutions with the Sanchez-Lacombe Equation of State |
| | 04198 | Modeling Phase Equilibria of Polystyrene in Methylcyclohexane Solutions with SWP Equation of State |
| | 04130 | New Method for Designing of Data Reconciliation Block in RTO System |
| | 04259 | Numerical investigation of hydrogen production inside a solar chemical reactor from sour natural gas |
| | 04280 | One-dimensional Pseudo-homogeneous Modeling and Simulation of Autothermal Reformer |

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| | 04163 | Prediction of Octane Number and Additives for Gasoline Blends Using Artificial Neural Networks |
| | 04251 | Sensor Fault Detection of a Highly Nonlinear CSTR Plant Using an Unscented Kalman Filter |
| | 04252 | Sensor Fault Detection of a Highly Nonlinear CSTR Using an Unknown Input Observer |
| | 04144 | Separation of 1,3-Butadiene from C4 cut by extractive distillation in Butadiene unit: Simulation in two modes |
| | 08132 | Simulation of dilute acid hydrolysis of lignocellulosic materials |
| | 04109 | Structure Identification of Recombinant E.coli Fed-Batch Cultivation with GP-OLS Method |
| | 04197 | Study of Pressure Fluctuations for Quantifying Probabilities of Fluidization Regimes |
| | 04246 | The comparison of the quantified dynamic behavior and steady state performance of quaternary simple distillation sequences |
| | 04242 | Transient simulation of lime softening process |
| | 04142 | Study of influential parameters on H ₂ S conversion efficiency of LO-CAT bubble column reactors: a statistical approach |
| | 14152 | CO ₂ Emission in Industrial Hydrogen Plants |
| | 04243 | Efficient numerical method for solving Population Balance Equation |

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| Process Engineering | 07125 | A Study on Combined Infrared and Microwave Drying of Wood |
| | 07134 | Area targeting of heat exchanger network considering fouling |
| | 07117 | Area Targeting of HEN for Shiraz Refinery Atmospheric Distillation Unit with Variable Physical Properties of Crude Oil Consideration |
| | 07231 | Beneficiation of Iranian feldspar for application in the ceramic industry |
| | 05208 | A new algorithm for optimization of distillation columns |
| | 05209 | Optimization of batch distillation processes using BB-BC method |
| | 07130 | Biodiesel, produced from Malaysian RBD Palm oil |
| | 07139 | Increasing of NGL recovery in Sarkhon & Qeshm gas treating company |
| | 07228 | Comparing Genetic Algorithm and Simulated Annealing in Optimization of Distillation Column Sequences |
| | 07229 | COMPARISON BETWEEN DEHYDROGENATION OF ISOPROPANOL AND DIRECT OXIDATION OF PROPYLENE FOR PRODUCING ACETONE |
| | 07224 | Design and Optimization of Multi- Stream Plate- Fin Heat Exchangers, by Simulated Annealing Algorithm |
| | 04187 | Design and Synthesis of Heat Integrated Distillation Sequences (HIDS) for a Separation Plant |
| | 07215 | Evaluation of fouling in heat exchangers of pre-heat section in crude oil distillation unit of Bandar Abbas oil refinery |
| | 07226 | Effect of MEG Reclaiming unit on the PH of sea line in PH stabilization mode |
| | 02143 | EXERGY ANALYSIS APPLICATION ON PARALLEL PLATE COUNTER FLOW HEAT EXCHANGERS |
| 07123 | IMPACTS OF DRYING METHODS ON POROUS MEDIA | |

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| | 07137 | Heat recovery from CR unit furnaces hot flue gas in Tabriz refinery |
| | 07213 | Low Aromatic Normal Paraffin Content Production by Three Components Solvent Method |
| | 04159 | Mathematical modeling of heat pipe heat exchanger (HPHE) to improve energy utilization of industrial boilers |
| | 04182 | Modeling for Production Unit of Ethylene by Steam Cracking Process |
| | 07220 | Modification of finger type transfer line heat exchangers for resolving the problem of corrosion and failure in hot tube sheet section |
| | 07145 | Multi objective optimization of the water network in an oil refinery using Reuse method |
| | 02138 | Optimizing separators pressure in multistage crude oil production unit |
| | 04274 | Simulation and optimization of an on-board oxygen generation system |
| | 07219 | Simulation of CO ₂ -Reforming over Rh/Al ₂ O ₃ Catalyst Using HYSYS Software |
| | 07216 | Studying Operational Problems of Natural Gas Dehydration and Presenting Convenient Solving Methods to Reduce Them |
| | 07120 | Uptake of fluids by wooden pipelines |
| | 07144 | Water and wastewater minimization using non-linear programming |
| | 07142 | Technical feasibility study of applying methanol instead of acetic acid in light ends recovery system of acetic acid production unit |

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| <i>Food Science & Engineering</i> | 15223 | Effect of microwave pretreatment of soy hull on the yield and quality of extracted pectin |
| | 15171 | Experimental Survey on the combination of fluidized bed dryers and infrared heat source for drying of shrinking cubic shaped bodies |
| | 08124 | Extraction and biochemical characterization of a peroxidase from soybean (Glycine max) seed coats |
| | 15117 | Influence of different edible coatings on the banana ripening |
| | 15167 | Investigation of the effect of temperature in drying process on quality and quantity of extracted rice bran oil |
| | 15169 | Kinetics of Lactose Crystallization; Effect of Seeding, Initial Concentration & Temperature on Overall Lactose Crystallization Rate |
| | 15218 | Manufacturing of Chekideh (Concentrated Yogurt) by Ultrafiltration and Compare Its Properties with the Other Production Methods |
| | 04160 | Modeling of fouling in food industry |
| | 15118 | Modeling of microfiltration fouling in protein solutions using pore-network model |
| | 15216 | Numerical simulation of freezing time of individual food |
| | 15222 | Numerical study of digestive biscuit's temperature in the cooling line of Razavi Food Industries Company |
| | 15221 | Simulation of the Transport Phenomena during Drying of Food with Ohmic Heating in Static System |

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| | 15220 | The effect of microwave heating on the yield and quality of soy hull pectin |
| | 15160 | Thixotropic Characterization of Non Fat and Full Fat Stirred Yoghurt |

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| CFD | 04250 | Study of Maldistribution of a Two-Phase Steady State Flow on Structured Packing Using CFD Technique |
| | 04257 | Removing mal-distribution through a radial-flow fixed bed reactor using CFD |
| | 04228 | Investigation of oil droplet characteristics in gas solid fluidized bed reactor |
| | 05115 | Implicit numerical solution of three-dimensional advection-diffusion equation using simultaneously temporal and spatial weighted parameters |
| | 05114 | Explicit numerical solution of three-dimensional advection-diffusion equation using simultaneously temporal and spatial weighted parameters |
| | 04272 | CFD Modeling of Adsorption in Packed Bed Micro Reactors |
| | 04225 | CFD modeling of subcritical water extraction |
| | 04188 | Modeling and simulation of coil-wire insert in concentric tubes and evaluation of its effect on heat transfer enhancement |
| | 05207 | On Lattice Boltzmann flow simulations in Stirred tanks |
| | 04263 | CFD MODELING OF TEMPERATURE, REACTION AND CONCENTRATION PROFILES IN HTWGS INDUSTRIAL REACTOR |
| | 04193 | CFD investigation on premixed micro-combustion of hydrogen-air mixture: effects of chamber size, wall heat conductivity and fuel/air flow rate |
| | 04171 | CFD Modeling and Optimization of DME Direct Synthesis from Syngas in Slurry Bed Reactor |
| | 04226 | Experimental and Numerical analysis of flow and heat transfer in a gas- liquid thermosyphon heat exchanger in a pilot plant |
| | 04133 | Evaluation of the Effects of Turbulence Modeling on Swirling Flow Predictions in boilers |
| | 04265 | Hydrodynamics Analysis of Quadrilobe Catalyst by CFD Simulation |
| | 04176 | Simulation of Settler's Launder of Sarcheshmeh Copper Complex Using Computational Fluid Dynamics |
| 04129 | Numerical Modeling of Spray Dryers in Process of Salt Production From Salty Lakes Using CFD | |