

Main Branch	Theme/Area	Title of Project	Year
Chemical	Chemical	OPTIMIZATION STUDIES IN IDEAL AND NON IDEAL REACTOR MODELS USING GAMS	2013
Chemical	Chemical	ESTERIFICATION OF BIO BASED ORGANIC ACID USING ACID CATALYST	2013
Chemical	Chemical	EXTRACTION OF OIL FROM CHLORELLA ALAGE USING SUPER CRITICAL CO2	2013
Chemical	Chemical	EXPERIMENTAL INVESTIGATION OF UREA FORMALDEHYDE RESIN	2013
Chemical	Chemical	EFFECT OF ADDITION OF SALT ON VLE DATA	2013
Chemical	Chemical	DESIGN OF DISTILLATION COLUMN	2013
Chemical	Chemical	ASSESSMENT OF SODA ASH IMPACT ON ENVIRONMENT USING LCA STUDY(TOOLS)	2013
Chemical	Chemical	CLEANER PRODUCTION IN RUBBER MANUFACTURING INDUSTRIES	2013
Chemical	Chemical	VAPOUR-LIQUID EQUILIBRIUM STUDIES FOR BINARY SYSTEMS	2013
Chemical	Chemical	PHOTOCATALYTIC DEGRADATION OF PHARMACEUTICAL COMPOUNDS USING TITANIUM DIOXIDE NANO PARTICLES	2013
Chemical	Chemical	PRODUCTION OF FURAN FROM XYLAN USING SOLID CATALYST	2013
Chemical	Chemical	APPLICATION OF FORWARD OSMOSIS FOR EFFLUENT TREATMENT AND CONCENTRATION OF ORGANICS	2013
Chemical	Chemical	OPTIMAL COMBUSTION IN FURNACE USING OXYGEN RICH STREAM	2013
Chemical	Chemical	EVALUATION OF PROPERTIES AND PERFORMANCE OF BUTYLATED UREA FORMALDEHYDE RESIN	2013
Chemical	Chemical	DEVELOPING A MODEL FOR A SPECIFIC AIR SHED USING RICHARDSON NUMBER	2013
Chemical	Chemical	FEASIBILITY STUDY OF VACUUM HEAT PUMP CYCLE : EXPERIMENTAL INVESTIGATION	2013
Chemical	Chemical	OPTIMAL EFFECT OF SALT ON FREEZING POINT DEPRESSION	2013
Chemical	Chemical	STUDY OF CHLORELLA ALAGE GROWTH IN BIO REACTOR	2013
Chemical	Chemical	RECOVERY OF PARA AMINO PHENOL FROM AQUEOUS SOLUTION IN MANUFACTURING OF PARA AMINO PHENOL	2013
Chemical	Chemical	DEVELOPING A MODEL FOR A SPECIFIC AIR SHED USING MONIN OBUKHOV LENGTH	2013

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Chemical	Chemical	EFFECT OF IONIC LIQUID & ORGANIC SALTS ON SEPARATION OF CLOSE BOILING COMPONENTS	2013
Chemical	Chemical	STUDY OF COKE MORPHOLOGY IN DELAYED COKER USING DIFFERENT VACUUM RESIDUE FEEDSTOCK	2013
Chemical	Chemical	HYDRODYNAMIC CHARACTERIZATION AND APPLICATION OF AIRLIFT LOOP REACTOR	2013
Chemical	Chemical	EVALUATION OF TREATMENT METHODS OF WASTE FROM GASIFICATION SYSTEM OF SMALL SCALE INDUSTRIES	2013
Chemical	Chemical	SEPARATION OF AZEOTROPIC MIXTURE AND HEAT SENSITIVE MATERIAL BY FREEZE CRYSTALLIZATION	2013
Chemical	Chemical	EVAPORATIVE COOLING OF WATER FOR INDIRECT AIR COOLING	2013
Chemical	Chemical	DYNAMIC SIMULATION OF ETHANOL RECTIFICATION USING CHEMCAD AND HYSIS ,MOTTMCDOWALD	2013
Chemical	Chemical	SYNTHESIS OF POLYURETHANE SOLUTION	2013
Chemical	Chemical	Fermentation (Preparation of Acetic Acid)	2013
Chemical	Chemical	SULPHONATION OF ORGANIC BY SO ₃	2013
Chemical	Chemical	MODELLING AND SIMULATING OF COCKER FIRED HEATER AND ESTIMATION OF RUN LENGTH	2013
Chemical	Chemical	SIMULATION & OPTIMIZATION OF HIGH PRESSURE CATALYTIC REACTOR	2013
Chemical	Chemical	CETP UPGRADATION	2013
Chemical	Chemical	SPRAY DRYER OPTIMIZATION THROUGH HUMIDITY CONTROL	2013
Chemical	Chemical	DESIGN OF JET LOOP REACTOR FOR HYDROGENATION ALKYLATION	2014
Chemical	Chemical	EVAPORATIVE COOLING	2014
Chemical	Chemical	WASTEWATER TREATMENT	2014
Chemical	Chemical	NOVEL EFFLUENT TREATMENT TECHNIQUES IN TEXTILE INDUSTRY	2014
Chemical	Chemical	GENERATION OF HIGH CALORIFIC VALUE BIOGAS UTILIZING WASTE MATERIAL BY A COMPACT BATCH REACTOR	2014
Chemical	Chemical	FREEZE CRYSTALLISATION	2014
Chemical	Chemical	SEPARATION OF FORMIC ACID AND WATER MIXTURE USING LI-BR SOLUTION	2014

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Chemical	Chemical	PACKED TOWER TYPE ABSORBER	2014
Chemical	Chemical	MATLAB APPLICATION FOR DESIGN OF DISTILLATION COLUMN	2014
Chemical	Chemical	DEMINERALIZATION OF WHEY BY ELECTRODIALYSIS	2014
Chemical	Chemical	OPTIMIZATION AND SIMULATION OF HEAT EXCHANGER IN CHEMCAD	2014
Chemical	Chemical	ENERGY CONSERVATION AND POLLUTION CONTROL IN CERAMICS TILES INDUSTRY	2014
Chemical	Chemical	BIODEGRADABLE POLYMERS	2014
Chemical	Chemical	KINETICS OF ETHANOL FERMENTATION	2014
Chemical	Chemical	DETERMINATION OF VLE DATA FOR BINARY SYSTEM INVOLVING ECO-FRIENDLY SOLVENT 2-METHYLTETRAHYDROFURAN	2014
Chemical	Chemical	STUDY OF PHASE EQUILIBRIA OF AZEOTROPIC MIXTURE USING BENIGN SOLVENTS	2014
Chemical	Chemical	SEPARATION OF HYDROCARBONS FROM ITS MIXTURE USING IONIC LIQUIDS	2014
Chemical	Chemical	SYNTHESIS AND CHARACTERIZATION OF THE JANUS PARTICLES	2014
Chemical	Chemical	PREPARATION OF ACTIVATED CARBON FROM AGRICULTURAL WASTE AND DEVELOPMENT OF ADSORPTION COLUMN	2014
Chemical	Chemical	STUDIES ON IMPROVEMENT IN THIN FILM COMPOSITE REVERSE OSMOSIS MEMBRANE PRODUCTIVITY	2014
Chemical	Chemical	NON-CATALYTIC AND CATALYTIC SYNTHESIS OF PHTHALATE ESTERS AND CATALYTIC SYNTHESIS OF NICOTINATE ESTERS	2014
Chemical	Chemical	MINLP AND MILP BASED SUPERSTRUCTURE FOR CHEMICAL REACTOR NETWORK OPTIMIZATION IN GAMS	2014
Chemical	Chemical	TREATABILITY STUDY OF LOW COST ADSORBENTS USED FOR WASTEWATER TREATMENT	2014
Chemical	Chemical	FEASIBILITY OF EFFECTIVE UTILIZATION OF HAZARDOUS WASTE GENERATED FROM VARIOUS INDUSTRIES	2014
Chemical	Chemical	PROPERTIES STUDY FOR BIODIESEL BLENDING WITH DIESEL	2014
Chemical	Chemical	STUDY OF TRANSESTERIFICATION REACTION USING VARIOUS REACTOR	2014
Chemical	Chemical	STUDY OF F.A.M.E. USING WASTE SEED	2014
Chemical	Chemical	ESTERIFICATION OF SUCCINIC ACID USING ZEOLITE CATALYST	2014

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Chemical	Chemical	EVAPORATIVE COOLING OF WATER IN AIR AT LOW PRESSURE	2014
Chemical	Chemical	MODELLING AND SIMULATION OF VACUUM HEAT PUMP CYCLE FOR WATER BASED EMULSIONS	2014
Chemical	Chemical	ATTAINABLE REGION STUDY FOR GENERIC CHEMICAL REACTIONS USING MULTI-OBJECTIVE OPTIMIZATION	2014
Chemical	Chemical	EXPERIMENTAL INVESTIGATION OF MELAMINE UREA FORMALDEHYDE RESINS	2014
Chemical	Chemical	EXPERIMENTAL OPTIMIZATION OF METHYLATED UREA FORMALDEHYDE PROCESS	2014
Chemical	Chemical	FLUX ENHANCEMENT DURING NANOFILTRATION OF AQUEOUS MIXTURE IN A PILOT PLANT	2014
Chemical	Chemical	KINETIC STUDY OF THE EXTRACTION OF PHENOL FROM AQUEOUS STREAM INTO EMULSION LIQUID MEMBRANES	2014
Chemical	Design and Modification of Double cone Vaccum Dryer and solevnt recovery	Design and Modification of Double cone Vaccum Dryer and solevnt recovery	2012
Chemical	Design and simulation of crystallizer	Design and simulation of crystallizer	2012
Chemical	Electrochemical Treatment	Electrochemical Treatment: an efficient method to reduce the C.O.D. Of textile dye waste water	2012
Chemical	Green Energy	To study the Algae growth using Photobioreactor	2012
Chemical	green fuel	Biodiesel production from algae	2012
Chemical	Green Innovative Technology	Bimetallic thermopile for thermoelectricity generation from waste heat of flue gases	2012
Chemical	Green Technology	Solar adsorption refrigeration	2012
Chemical	Green Technology	Reduction of pollution with green technology at source sustainability developement on calcium chloride effluent	2012
Chemical	Implementation of Cleaner Production in Dyes Manufacturing Plant	Implementation of Cleaner Production in Dyes Manufacturing Plant	2012
Chemical	Intensification and process modification	To increase Con.of H ₂ SO ₄ in Alpha-Blue Pigment Process	2012
Chemical	New Separation Technique	Supercritical fluid extraction of oil from CALOTROPIS GIGANTEA (Ankro)	2012

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Chemical	Non-Conventional Energy Source	Direct Ethanol Fuel Cell	2012
Chemical	Optimal trade-off between recovery and purity for pressure swing adsorption using Multi objective optimization	Optimal trade-off between recovery and purity for pressure swing adsorption using Multi objective optimization	2012
Chemical	Performace upgradation of CETP's in Gujarat	Performace upgradation of CETP's in Gujarat	2012
Chemical	Polymer Technology	To measure the rate of water production and butanol consuption with respect to time and characterize the BUFR	2012
Chemical	Polymer Technology	To study the curing effects on modified urea formaldehyde resins.	2012
Chemical	Removal of organics from effluent via freeze crystalization	Removal of organics from effluent via freeze crystalization	2012
Chemical	Simulation of Reactive Distillation using CHEMCAD	Simulation of Reactive Distillation using CHEMCAD	2012
Chemical	Studying the effects of various salts on acetic acid-water system	Studying the effects of various salts on acetic acid-water system	2012
Chemical	Supercritical extraction	Supercritical extraction on fenugreek seeds by using CO2 as a solvent	2012
Chemical		Optimisation of Energy consumption in Soda ash process	2012
Chemical		Effect of Polymer bound chemicals on Rubber Product Properties	2012
Chemical		Design & Simulation of Air cooler	2012
Chemical		Process optimisation using ChemCAD	2012
Chemical		Development and Kinetics of Urea-formaldehyde Resin	2012
Chemical		Reduction of Ammonical Nitrogen and color from Effluent in Auramine O plant	2012
Chemical		Separation of binary mixture Via Freeze crystallization	2012