

Publications: List from 2012 till May 14, 2018
Department of Chemical Engineering
List of SCI Publications

Sr. No	Authors	Title of Paper	Journal Name	Volume	Year	Starting Page	End Page	Impact Factor	Month
1.	Arghya Datta, Raj Kumar Gupta, Sunil Goswami, Vijay Kumar Sharma, Haripada Bhunia, Damandeep Singh, Harish Jagat Pant	Radiotracer investigation on the measurement of residence time distribution in an ethyl acetate reactor system with a large recycle ratio	Applied Radiation and Isotopes	130	2017	245	251	2.051	12
2.	Gurpreet Singh, Gangacharyulu Dasaraju, Vijaya Kumar Bulasara	Heat transfer and pressure drop performance of water-based Al ₂ O ₃ nanofluid in a flat vertical tube of a radiator	Journal of Chemical Engineering Communications	205	2017	257	268	1.297	12
3.	J. Singla, A. Verma, V. K. Sangal	Performance and Evaluation of Electro-oxidation treatment of Human Urine metabolite Uric Acid using Response Surface Methodology	Journal of The Electrochemical Society	164	2017	312	320	2.822	12
4.	Jyoti Sharma Raj Kumar Arya Sanjeev Ahuja Chitresh Kumar Bhargava	Residual Solvent Study In Polymer – Polymer – Solvent Coatings: Poly(styrene) – Poly(methyl methacrylate) – Tetrahydrofuran Coatings	Progress in Organic Coatings	113	2017	200	206	2.858	12
5.	Karanbir Singh, Tarun Nanda, Rajeev Mehta	Addition of nanoclay and compatibilized EPDM rubber for improved impact strength of epoxy glass fiber composites	Composites Part A: Applied Science and Manufacturing	103	2017	263	271	4.075	12
6.	M. Sarkar, V. K., Sangal, V. K. Sharma, H. Bhunia, P.K. Bajpai, A. Kumar, A. K. Naithani, H. J. Pant	Radiotracer Investigation of a Pulp and Paper Mill Effluent Treatment Plant	Nukleonika	62	2017	289	294.	0.82	12

7.	P. Kaur, J. P. Kushwaha V. K. Sangal,	Electrocatalytic oxidative treatment of real textile wastewater in continuous reactor: degradation pathway and disposability study	Journal of Hazardous Materials	346	2017	242	252	6.065	12
8.	Kamaljit Sokhal, Gangacharyulu Dasaraju and Vijaya Kumar Bulasara	Effect of bio-polymer and salt concentrations on the drag reduction and shear degradation properties of turbulent flow of water in a pipe	Journal of Carbohydrate Polymers	181	2017	1017	1025	5.13	11
9.	P. Kaur, J. P. Kushwaha, V. K. Sangal.	Evaluation and disposability study of actual textile wastewater treatment by electro-oxidation method using Ti/RuO ₂ anode.	Process Safety and Environmental Protection	111	2017	13	22	0.58	11
10.	Arvind K. Kaushal, Madhup Mittal and Dasaraju Gangacharyulu	Productivity correlation and economic analysis of floating wick basin type vertical multiple effect diffusion solar still with waste heat recovery	Journal of Desalination	423	2017	95	103	3.756	09
11.	Mohit Garg Shruti Sharma Sandeep Sharma Rajeev Mehta	Effect of hygrothermal aging on GFRP composites in marine environment	Steel and Composite Structures,	25	2017	93	104	3.198	09
12.	Deepak Tiwari Haripada Bhunia Pramod K. Bajpai	Epoxy based oxygen enriched porous carbons for CO ₂ capture	Applied Surface Science	414	2017	380	389	3.387	08
13.	M Singh JS Saini H Bhunia	Application of Taguchi method in the optimization of geometric parameters for double pin joint configurations made from glass-epoxy nanoclay laminates	Journal of Composite Materials	51	2017	2689	2706	1.275	08
14.	M. Sarkar, V. K. Sangal, V. K. Sharma, J. Samantray, H. Bhunia, P.K. Bajpai, A. Kumar, A. K. Naithani, H. J. Pant	Radiotracer investigation and modeling of an activated sludge system in a pulp and paper industry	Applied Radiation and Isotopes	130	2017	270	275	1.128	08

15.	Poonam Kumari, Jai Prakash Kushwaha, Vikas K. Sangal, Neetu Singh	Dairy wastewater treatment in continuous stirred tank electrochemical reactor (CSTER): parametric optimization and kinetics	Environmental Engineering and Management Journal	xxx	2017	xxx	xxx	1.008	08
16.	Arvind K. Kaushal Madhup Mittal Dasaroju Gangacharyulu	An experimental study of floating wick basin type vertical multiple effect diffusion solar still with waste heat recovery	The International Journal of Desalination	414	2017	35	45	3.756	07
17.	Deepak Tewari Chitrakshi Goel Haripada Bhunia Pramod K. Bajpai	Melamine-formaldehyde derived porous carbons for adsorption of CO ₂ capture	Journal of Environmental Management	197	2017	415	427	4.049	07
18.	Dev K. Mandal, Haripada Bhunia, Pramod K. Bajpai, Vinod K. Bhalla	Thermal degradation kinetics and estimation of lifetime of radiation grafted polypropylene films	Radiation Physics and Chemistry	136	2017	1	8	1.380	07
19.	Karanbir Singh Tarun Nanda Rajeev Mehta	Compatibilization of polypropylene fibers in epoxy based GFRP/clay nanocomposites for improved impact strength	Composites Part A: Applied Science and Manufacturing	98	2017	207	217	3.719	07
20.	Alok Garg, Ashutosh Singh, Vikas K. Sangal, Pramod K. Bajpaia, Neha Garg	Synthesis, Characterization and anticancer activities of metal ions Fe and Cu doped and co-doped TiO ₂	New Journal of Chemistry	41	2017	9931	9937	3.277	06
21.	Deepak Tiwari Chitrakshi Goel Haripada Bhunia Pramod K. Bajpai	Dynamic CO ₂ capture by carbon adsorbents: kinetics, isotherm and thermodynamic studies	Separation and Purification Technology	181	2017	107	122	3.299	06
22.	Parminder Kaur J P Kushwaha V K Sangal	Evaluation and disposability study of actual textile wastewater treatment by electro-oxidation method using Ti/RuO ₂ anode	Process Safety and Environmental Protection	111	2017	13	22	2.905	06

23.	Shilpa Narang Rajeev Mehta S.N. Upadhyay	Solvent free cycloaddition of CO ₂ and Propylene Oxide to Cyclic carbonates using different ligand metal complexes	Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry	47	2017	909	916	0.51	06
24.	Dev K. Mandal Haripada Bhunia Pramod K. Bajpai Chandrasekhar V. Chaudhari Kumar, A. Dubey Lalit Varshney	Morphology, Rheology and Biodegradation of Oxo-degradable Polypropylene/Poly (lactic acid) blends	Journal of Polymer Engineering	38	2017	239	249	0.658	05
25.	Jasdeep Kaur Vikas Kumar Sangal	Reducing energy requirements for ETBE synthesis using reactive dividing wall distillation column	Energy	126	2017	671	676	4.810	05
26.	Jyoti Sharma, Kshitij Tewari, Raj Kumar Arya	Diffusion in Polymeric Systems – A Review on Free Volume Theory	Progress in Organic Coatings	111	2017	82	92	2.632	05
27.	Kshitij Tewari Gaurav Singhal Raj Kumar Arya	Adsorption Removal of Malachite Green Dye from Aqueous Solution	Reviews in Chemical Engineering (DOI: 10.1515/revce-2016-0041)	xxx	2017	xxx	xxx	2.427	05
28.	Alok Garg Vikas K Sangal Pramod K Bajpai	Photocatalytic treatment of binary mixture of dyes using UV/TiO ₂ process: Calibration, modeling, optimization and mineralization study	International Journal of Chemical Reactor Engineering	15	2017	xxx	xxx	0.759	04
29.	Aman Pathania, Raj Kumar Arya, Sanjeev Ahuja	Crosslinked Polymeric Coatings: Preparation, Characterization, and Diffusion Study	Progress in Organic Coatings	105	2017	149	162	2.302	04
30.	Sanjeev Ahuja Raj Kumar Arya	Comparison of The Performances of Different Reduced Forms of a Condenser Model	Chemical Engineering & Technology	40	2017	1630	1637	2.385	04

31.	Dev K. Mandal, Haripada Bhunia, J P. Kushwaha, Pramod K. Bajpai, C. V. Chaudhari, K. A. Dubey, L. Varshney	Optimization of acrylic acid grafting onto polypropylene using response surface methodology and its biodegradability	Radiation Physics and Chemistry	132	2017	71	81	1.380	03
32.	Karanbir Singh Tarun Nanda Rajeev Mehta	Processing of poly-ethylene terephthalate fiber reinforcement to improve compatibility with constituents of GFRP nanocomposites	Materials and Manufacturing Processes (DOI: 10.1080/10426914.2017.1291955)	xxx	2017	xxx	xxx	1.419	03
33.	Sharma Bikramjit Rahul Chhibber Rajeev Mehta	Curing studies and mechanical properties of glass fiber reinforced composites based on silanized clay minerals	Applied Clay Science	138	2017	89	99	2.586	03
34.	Sudhir K Singh	Corresponding states vapour–liquid phase equilibria of confined square–well fluid	Molecular Simulation	43	2017	914	925	1.678	03
35.	Mohit Garg Shruti Sharma Rajeev Mehta	Role of curing conditions and silanization of glass fibers on carbon nanotubes (CNTs) reinforced glass fiber epoxy composites	Composites Interface	24	2017	233	253	1.046	02
36.	Ruchika Thakur Sanghamitra Barman Raj Kumar Gupta	Kinetic investigation in transalkylation of 1,2,4 Trimethyl benzene with Toluene over rare earth metal modified large pore zeolite	Chemical Engineering Communications	204	2017	254	264	1.433	02
37.	Bhupinder Singh Bhullar DasarojuGangacharyulu Sarit Kumar Das	Augmented Thermal Performance of Straight Heat Pipe Employing Annular Screen Mesh Wick and Surfactant Free Stable Aqueous Nanofluids	Heat Transfer Engineering	38	2017	217	226	0.964	01
38.	Bhupinder Singh Bhullar D Gangacharyulu S.K Das	Temporal deterioration in thermal performance of screen mesh wick straight heat pipe using surfactant free aqueous nanofluids	Heat And Mass Transfer	53	2017	241	251	0.929	01

39.	Chitresh Kumar Bhargava Raj Kumar Arya	Simplified MATLAB Solution Schemes for Heat Transfer Equations	Chemical Engineering & Technology	40	2017	39	49	2.385	01
40.	Ruchika Thakur Raj Kumar Gupta Sanghamitra Barman	A comparative study of catalytic performance of rare earth metal modified beta zeolites for synthesis of Cymene	Chemical Papers	71	2017	137	148	1.326	01
41.	Arshdeep Kaur D. Gangacharyulu Pramod K. Bajpai	Catalytic hydrogen generation from NaBH ₄ /H ₂ O system: effects of catalyst and promoters	Brazilian Journal of Chemical Engineering	34	2017	xxx	xxx	1.043	01
42.	C. Goel, H. Bhunia, P.K. Bajpai	Prediction of binary gas adsorption of CO ₂ and thermodynamic studies on nitrogen enriched nanostructured carbon adsorbents	Journal of Chemical & Engineering Data	62	2017	214	225	1.835	12
43.	Kulwinder Singh, J. S. Saini H. Bhunia	Effect of Metallic Inserts on the Strength of Pin Joints Prepared from Glass Fiber Reinforced Composites	Defence Science Journal	67	2017	592	600	0.50	7
44.	Deepak Tiwari, Haripada Bhunia, Pramod K. Bajpai	Synthesis of nitrogen enriched porous carbons from urea formaldehyde resin and their carbon dioxide adsorption capacity	Journal of CO ₂ Utilization	21	2017	302	313	4.292	11
45.	Dev K. Mandal, Haripada Bhunia, Pramod K. Bajpai, Kumar A. Dubey and Lalit Varshney	Thermo-oxidative degradation kinetics of grafted polypropylene films	Radiation Effects and Defects in Solids	172	2017	878	895	0.443	12
46.	Gaurav Madhu, Dev K Mandal, Haripada Bhunia, Pramod K Bajpai	Thermal degradation kinetics and lifetime of HDPE/PLLA blends	Journal of Thermoplastic Composite Materials	30	2017	773	793	1.250	06

47.	M.Sekhon J. Saini G.Singla H. Bhunia	Influence of nanoparticle fillers content on the bearing strength behavior of glass fiber reinforced epoxy composites pin joints	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	23	2017	641	656	1.625	09
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