

**SCI Publications (Jan 2015 -November 2015)**

#	Authors	Title	Source title	Volume	Issue	Page start	Page end
1	Sehgal, N., Pandey, K.K.	Artificial intelligence methods for oil price forecasting: a review and evaluation	Energy Systems	6	4	479	506
2	Siingh, D., Singh, R.P., Kumar, S., Dharmaraj, T., Singh, A.K., Singh, A.K., Patil, M.N., Singh, S.	Lightning and middle atmospheric discharges in the atmosphere	Journal of Atmospheric and Solar-Terrestrial Physics	134		78	101
3	Singh, Y., Garg, R., Kumar, S.	Optimization of tribological behavior of Pongamia oil blends as an engine lubricant additive	Green Processing and Synthesis	4	5	421	431
4	Sharma, R., Singhal, S., Tiwari, A.K., Agarwal, S., Arora, S., Singhal, N.	Influence of pretreatment processes onto bio-methanation of wheat straw	Journal of Renewable and Sustainable Energy	7	5		
5	Behera, G., Mandal, P., Ramakrishna, S.A.	Complementary layer pairs of plasmonic ladder-like structured films: Fabrication and visible-near-infrared properties	Journal of Applied Physics	118	6		
6	Mandal, P.	Plasmonic Perfect Absorber for Refractive Index Sensing and SERS	Plasmonics				
7	Bisht, K.K., Parmar, B., Rachuri, Y., Kathalikattil, A.C., Suresh, E.	Progress in the synthetic and functional aspects of chiral metal-organic frameworks	CrystEngComm	17	29	5341	5356
8	Yaqoot, M., Diwan, P., Kandpal, T.C.	Public financing of solar lanterns versus subsidizing kerosene for domestic lighting in India: A feasibility assessment	Renewable Energy	80		564	572
9	Dubey, A.M., Das Agrawal, G., Kumar, S.	Thermodynamic analysis of a transcritical CO <sub>2</sub> /propylene cascade system with split unit in HT cycle	Journal of the Brazilian Society of Mechanical Sciences and Engineering	37	4	1365	1378
10	Singh, S., Jain, S., Ps, V., Tiwari, A.K., Nouni, M.R., Pandey, J.K., Goel, S.	Hydrogen: A sustainable fuel for future of the transport sector	Renewable and Sustainable Energy Reviews	51		623	633
11	Dubey, A.M., Das Agrawal, G., Kumar, S.	Performance evaluation and optimal configuration analysis of a transcritical carbon dioxide/propylene cascade system with vortex tube expander in high-temperature cycle	Clean Technologies and Environmental Policy				

12	Pandian, A., Bansal, K., Thiruvadigal, D.J., Sakthivel, S.	Fire Hazards and Overheating Caused by Shading Faults on Photo Voltaic Solar Panel	Fire Technology				
13	Choi, S.D., Choi, J.H., Kim, Y.H., Kim, S.Y., Dwivedi, P.K., Sharma, A., Goel, S., Kim, G.M.	Enzyme immobilization on microelectrode arrays of CNT/Nafion nanocomposites fabricated using hydrogel microstencils	Microelectronic Engineering	141		193	197
14	Kashyap, D., Yadav, R.S., Gohil, S., Venkateswaran, P.S., Pandey, J.K., Kim, G.M., Kim, Y.H., Dwivedi, P.K., Sharma, A., Ayyub, P., Goel, S.	Fabrication of vertically aligned copper nanotubes as a novel electrode for enzymatic biofuel cells	Electrochimica Acta	167		213	218
15	Tiwari, A.K., Dar, A.B., Bhanja, N., Arouri, M., Teulon, F.	Stock returns and inflation in Pakistan	Economic Modelling	47		23	31
16	Raj, T., Kapoor, M., Gaur, R., Christopher, J., Lamba, B., Tuli, D.K., Kumar, R.	Physical and chemical characterization of various indian agriculture residues for biofuels production	Energy and Fuels	29	5	3111	3118
17	Joshi, G., Rawat, D.S., Lamba, B.Y., Bisht, K.K., Kumar, P., Kumar, N., Kumar, S.	Transesterification of Jatropa and Karanja oils by using waste egg shell derived calcium based mixed metal oxides	Energy Conversion and Management	96		258	267
18	Bhanja, N., Dar, A.B.	"The beauty of gold is, it loves bad news": evidence from three major gold consumers	Economic Change and Restructuring				
19	Sharma, V.R., Yadav, A., Singh, P.P., Bala, I., Singh, D.P., Gupta, S., Sharma, M.K., Kumar, R., Muralithar, S., Singh, R.P., Singh, B.P., Bhowmik, R.K., Prasad, R.	Spin distribution measurements in 16O+159Tb system: Incomplete fusion reactions	Journal of Physics G: Nuclear and Particle Physics	42	5		
20	Nagpal, G., Bhattacharya, A., Singh, N.B.	Cu(II) ion removal from aqueous solution using different adsorbents	Desalination and Water Treatment				
21	Nagpal, G., Bhattacharya, A., Singh, N.B.	Removal of chromium(VI) from aqueous solution by carbon waste from thermal power plant	Desalination and Water Treatment				

22	Bhandari, A., Kumar, V.	Effect of magnetization force on ferrofluid flow due to a rotating disk in the presence of an external magnetic field	European Physical Journal Plus	130	4	1	12
23	Kumar, S., Kumar, P., Singh, V., Kumar Mandal, U., Kumar Kotnala, R.	Synthesis, characterization and magnetic properties of monodisperse Ni, Zn-ferrite nanocrystals	Journal of Magnetism and Magnetic Materials	379		50	57
24	Dubey, A.M., Kumar, S., Agrawal, G.D.	Numerical optimization of a transcritical CO <sub>2</sub> /propylene cascaded refrigeration-heat pump system with economizer in HT cycle	Sadhana - Academy Proceedings in Engineering Sciences	40	2	437	454
25	Kumar, S., Singh, V., Mandal, U.K., Kotnala, R.K.	Nanocrystalline Co <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> ferrite: Synthesis, characterization and study of their magnetic behavior at different temperatures	Inorganica Chimica Acta	428		21	26
26	Sharma, M.K., Yadav, A., Sharma, V.R., Singh, D.P., Singh, P.P., Unnati, Bala, I., Kumar, R., Singh, B.P., Prasad, R.	Experimental study of cross sections in the C 12 + Al 27 system at ≈3-7 MeV/nucleon relevant to the incomplete fusion process	Physical Review C - Nuclear Physics	91	2		
27	Bisht, K.K., Chaudhari, J., Suresh, E.	Rapid mechanochemical protocol for isostructural polycatenated coordination polymers [M(BrIP)(BIX)] (M = Co(II), Zn(II))	Polyhedron	87		71	78
28	Rathore, V., Tyagi, S., Newalkar, B., Badoni, R.P.	Jatropha and Karanja oil derived DMC-biodiesel synthesis: A kinetics study	Fuel	140		597	608
29	Mishra, R., Kuchhal, P., Kumar, A.	Impact of slots on the performance analysis of microstrip antenna	International Journal of Applied Engineering Research	10	16	37217	37221
30	Pant, S., Anand, D., Kishor, A., Singh, S.B.	A particle swarm algorithm for optimization of complex system reliability	International Journal of Performability Engineering	11	1	33	42
31	Siingh, D., Buchunde, P.S., Gandhi, H., Singh, R., Singh, S., Patil, M.N., Singh, R.P.	Lightning and convective rain over Indian peninsula and Indo-China peninsula	Advances in Space Research	55	4	1085	1103
32	Mondal, A.K., Bansal, K.	Structural analysis of solar panel cleaning robotic arm	Current Science	108	6	1047	1052
33	Awasthi, M.K., Kumar, V.	Pressure corrections for the potential flow analysis of electrohydrodynamic Kelvin-Helmholtz instability	Journal of Applied Fluid Mechanics	8	3	539	547

34	Kumari, N., Kuchhal, P., Manohar, B.R., Gowri, R.	An electrical equivalent circuit of slotted metamaterial antenna for mobile handsets	International Journal of Applied Engineering Research	10	15	35342	35344
35	Unnikrishnan, G., Siddiqui, N., Honwad, S.	Monitoring probability of failure on demand of safety instrumented systems by Bayesian updating	International Journal of Applied Engineering Research	10	15	35774	35777
36	Halder, S., Goyat, M.S., Ghosh, P.K.	Influence of ultrasonic dual mode mixing on the morphology, molecular structure and thermo-physical properties of a SiO <sub>2</sub> -epoxy nanocomposite adhesive	Journal of Adhesion Science and Technology	29	23	2590	2604
37	Kapoor, M., Prateek, M., Bansal, K.	Evaluation of mobility managed reactive protocol AODVMM in a sparsely deployed mobile ad hoc network	International Journal of Wireless and Mobile Computing	9	1	90	98
38	Tiwari, D.K., Awasthi, M.K., Agrawal, G.S.	Viscous potential flow analysis of magnetohydrodynamic capillary instability with heat and mass transfer	Ain Shams Engineering Journal	6	3	1113	1120
39	Kurre, S.K., Pandey, S., Garg, R., Saxena, M.	Condition monitoring of a diesel engine fueled with a blend of diesel, biodiesel, and butanol using engine oil analysis	Biofuels	6	4-Mar	223	231
40	Choudhury, S., Kuchhal, P., Yadav, M.S., Singh, R., Anita	Development of PSO based hand held device to monitor the environmental parameters for coal mines and rigs	International Journal of Applied Engineering Research	10	4	10743	10754
41	Singh, R., Kuchhal, P., Yadav, M.S., Choudhury, S., Anita	Hardware implementation of PID and ACO based wireless heating system	International Journal on Electrical Engineering and Informatics	7	3	409	417
42	Goel, S., Dwivedi, P.	Considerations and conceptualisation of solar business model in India: Lessons on technology transfer learnt from Germany	International Journal of Technology, Policy and Management	15	3	226	247
43	Kashyap, D., Kim, C., Kim, S.Y., Kim, Y.H., Kim, G.M., Dwivedi, P.K., Sharma, A., Goel, S.	Multi walled carbon nanotube and polyaniline coated pencil graphite based bio-cathode for enzymatic biofuel cell	International Journal of Hydrogen Energy	40	30	9515	9522
44	Dixena, R.K., Sayanna, E., Badoni, R.P.	A study on tribological behaviours of ZDDP in polymer thickened lubricating greases	Lubrication Science				

45	Tiwari, D.K., Awasthi, M.K., Agrawal, G.S.	Viscous potential flow analysis of electrohydrodynamic capillary instability with heat and mass transfer: Effect of free surface charge	International Journal of Applied Electromagnetics and Mechanics	47	2	453	465
46	Kumar, M., Chandra, R., Goyat, M.S., Mishra, R., Tiwari, R.K., Saxena, A.K.	Structural and magnetic properties of pulsed laser deposited Fe-SiC thin films	Thin Solid Films	579		64	67
47	Soni, N.B., Bansal, K., Saini, D.	Design & development of an integrated control of real time data monitoring for remotely located micro hydro station and solar power station	International Journal of Applied Engineering Research	10	16	37554	37556
48	Unnikrishnan, G., Siddiqui, N., Honwad, S.	Understanding oil & gas pipeline failures and mitigation measures using Bayesian approach	International Journal of Applied Engineering Research	10	11	29595	29608
49	Lavania, S., Darbari, M., Ahuja, N.J., Siddiqui, I.A.	Genetic algorithms-fuzzy based trade-off adjustment between software complexity and deliverability	Lecture Notes in Electrical Engineering	312		15	18
50	Palit, S.	Environmental engineering science, chemical engineering and a visionary future - A far-reaching - Review	International Journal of Pharma and Bio Sciences	6	3	B869	B876
51	Palit, S.	The future vision of the application of genetic algorithm in designing a fluidized catalytic cracking unit and chemical engineering systems -a far-reaching review	International Journal of ChemTech Research	7	4	1665	1674
52	Sharma, A.K., Sahoo, P.K., Singhal, S.	Feasibility of biodiesel production from chlorella vulgaris grown in flat plate photobioreactor under outdoor conditions	International Journal of ChemTech Research	8	6	671	678
53	Raghav, G., Nagpal, M.	Performance investigation and optimization of low temperature sensible heat solar energy storage system	International Journal of Renewable Energy Research	5	3	903	909
54	Kumar, R., Bansal, K., Saini, D.K., Paul, I.P.S.	Two layer soil modelling & optimal designing of grounding system of high voltage gas insulated substation (GIS) & air insulated substation (AIS) using Matlab GUI	Water and Energy International	58RNI	6	21	26
55	Padhan, R.K., Gupta, A.A., Badoni, R.P., Bhatnagar, A.K.	Improved performance of a reactive polymer-based bituminous mixes – effect of cross-linking agent	Road Materials and Pavement Design	16	2	300	315

56	Sharma, P., Singh, R.	A class of exponential ratio estimators of finite population mean using two auxiliary variables	Pakistan Journal of Statistics and Operation Research	11	2	221	229
57	Mahajan, R., Gupta, S.K.	Modeling of diffusional limitations in styrene acrylonitrile random bulk copolymerization	Polymer Engineering and Science	55	9	2098	2110
58	Joshi, S.K., Gupta, R.	Determination of optical properties of neodymium-doped	International Journal of ChemTech Research	8	3	1346	1352
59	Verma, P., Gahtori, V., Singh, R., Anita, Kumar, P.	Algorithm of hybrid switching visual servoing for controlling eye-in-hand configuration real time robot	International Journal of Applied Engineering Research	10	1	825	838
60	Anand, N., Grover, N.	Measuring retail supply chain performance: Theoretical model using key performance indicators (KPIs)	Benchmarking	22	1	135	166
61	Sharma, A.K., Sahoo, P.K., Singhal, S.	Screening and optimization of culture media for Chlorella sp. as a raw material for biodiesel production	International Journal of Pharma and Bio Sciences	6	3	B251	B262
62	Sharma, A., Sahoo, P.K., Tripathi, R.K., Meher, L.C.	ANN modeling of emission and performance parameters of polanga biodiesel based CI engine at different injection pressures	International Journal of Applied Engineering Research	10	11	27453	27470
63	Mishra, V., Tadepalli, S.	Biosorption of toxic heavy metals on sawdust	Clean - Soil, Air, Water	43	3	360	367
64	Mahajan, R., Gupta, S.K.	Optimization of styrene acrylonitrile random bulk copolymerization reactors	Polymer Engineering and Science	55	10	2377	2387
65	Yadav, R., Guven, U.	Aerodynamic heating of a hypersonic projectile with forward-facing ellipsoid cavity at nose	Journal of Spacecraft and Rockets	52	1	157	165
66	Sharma, M., Bansal, K., Buddhi, D.	Real time outdoor electrical characteristics of PV module with passive heat extraction unit	International Journal of Applied Engineering Research	10	4	11229	11235
67	Soam, S., Kumar, R., Gupta, R.P., Sharma, P.K., Tuli, D.K., Das, B.	Life cycle assessment of fuel ethanol from sugarcane molasses innorthern and western India and its impact on Indian biofuel programme	Energy	83		307	315
68	Joshi, S.K., Gupta, R.	Determination of optical properties of neodymium-doped Zinc-Phosphate glasses	International Journal of ChemTech Research	8	4	1940	1946
69	Unnikrishnan, G., Siddiqui, N., Shrihari	Applicationof bayesian methods for risk assessmentof oil & gas separator	International Journal of Applied Engineering Research	10	9	22959	22968

70	Dubey, R., Singh, T., Ali, S.S., Tiwari, S.	Contextual relationship among antecedents of truck freight using interpretive structural modelling and its validation using MICMAC analysis	International Journal of Logistics Systems and Management	20	1	42	58
71	Singh, R., Kuchhal, P., Choudhury, S., Gehlot, A.	Implementation and evaluation of heating system using PID with genetic algorithm	Indian Journal of Science and Technology	8	5	413	418
72	Rawat, A., Sushil, R., Sharm, L.	Mobile agent communication protocols: A comparative study	Smart Innovation, Systems and Technologies	31		131	141
73	Varshney, P., Kunzru, D., Gupta, S.K.	Modelling of the Riser Reactor in a Resid Fluidised-bed Catalytic Cracking Unit Using a Multigrain Model for an Active Matrix-zeolite Catalyst	Indian Chemical Engineer	57	2	115	135
74	Rawat, D.S., Joshi, G., Lamba, B.Y., Tiwari, A.K., Kumar, P.	The effect of binary antioxidant proportions on antioxidant synergy and oxidation stability of Jatropha and Karanja biodiesels	Energy	84		643	655
75	Kashyap, D., Venkateswaran, P.S., Dwivedi, P.K., Kim, Y.H., Kim, G.M., Sharma, A., Goel, S.	Recent developments in enzymatic biofuel cell: Towards implantable integrated micro-devices	International Journal of Nanoparticles	8	1	61	81
76	Bhanja, N., Dar, A.B., Tiwari, A.K.	Exchange rate and monetary fundamentals: Long run relationship revisited	Panoeconomicus	62	1	33	54
77	Singh, R., Kuchhal, P., Yadav, M.S., Sharma, M.K., Choudhury, S., Anita	Optimization and implementation of intelligent RF remote controlled heater system	International Journal of Control and Automation	8	5	397	406
78	Kurre, S.K., Pandey, S., Garg, R., Saxena, M.	Experimental study of the performance and emission of diesel engine fueled with blends of diesel-ethanol as an alternative fuel	Biofuels	6	4-Mar	209	216
79	Peters, M.S.	Minimize risk of carbon sequestration through environmental impact assessment and strategic environmental assessment	European Energy and Environmental Law Review	24	1	12	16
80	Goel, S., Venkateswaran, P.S., Prajesh, R., Agarwal, A.	Rapid and automated measurement of biofuel blending using a microfluidic viscometer	Fuel	139		213	219
81	Singh, R., Kuchhal, P., Yadav, M.S., Choudhury, S., Anita	Intelligent integrated RF remote control for fan, light and heater	International Journal of Applied Engineering Research	10	3	6003	6012

82	Mondal, A.K., Bansal, K.	A brief history and future aspects in automatic cleaning systems for solar photovoltaic panels	Advanced Robotics	29	8	515	524
83	Dhiman, N., Awasthi, M.K., Chauhan, S.	Pressure corrections in the potential flow analysis of electrohydrodynamics Kelvin-Helmholtz instability of cylindrical interface through porous media	Gazi University Journal of Science	28	1	45	57
84	Singla, A., Singh, Y.	Fracture surface analysis of AA2218 Al-alloy MMCs and squeeze pressure effect on fracture mechanism	International Journal of Materials Engineering Innovation	6	3-Feb	140	153
85	Mandal, P.	H-Shape Plasmonic Metasurface as Refractive Index Sensor	Plasmonics	10	2	439	445
86	Dubey, S., Prateek, M., Saxena, M.	Robot Locomotion – A Review	International Journal of Applied Engineering Research	10	3	7357	7369
87	Palit, S.	Future of energy and environmental sustainability and progress of science and engineering- a West Bengal, India experience	International Journal of ChemTech Research	7	4	1873	1879