

SCI Publications (2014)

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1	Awasthi, M.K.	Study on kelvin-helmholtz instability with heat and mass transfer	Journal of Fluids Engineering, Transactions of the ASME	136	12		
2	Mandal, P.	H-Shape Plasmonic Metasurface as Refractive Index Sensor	Plasmonics				
3	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				
4	Devalla, V., Prakash, O.	Developments in unmanned powered parachute aerial vehicle: A review	IEEE Aerospace and Electronic Systems Magazine	29	11	6	20
5	Dhyani, A., Kumar, R., Tewari, B.S., Ajay	Tunable Josephson supercurrent through a two level quantum dot superconductor tunnel junction	Journal of Computational Electronics				
6	Vijayaraghavan, R.K., McCoy, A.P., Chauhan, L., Cowley, A., Morris, R.J.H., Daniels, S., McNally, P.J.	Influence of oxygen plasma on the growth, structure, morphology, and electro-optical properties of p-type transparent conducting CuBr thin films	Journal of Physical Chemistry C	118	40	23226	23232
7	Pardha-Saradhi, P., Yamal, G., Peddisetty, T., Sharmila, P., Nagar, S., Singh, J., Nagarajan, R., Rao, K.S.	Reducing strength prevailing at root surface of plants promotes reduction of Ag ⁺ and generation of Ag ₀ /Ag ₂ O nanoparticles exogenously in aqueous phase	PLoS ONE	9	9		
8	Latwal, M., Chandra, P., Ali, S.R.	Synthesis of nanostructured copper hexacyanidoferrate and its application in voltammetric detection of salbutamol	Journal of Applied Electrochemistry				
9	Rathore, V., Tyagi, S., Newalkar, B., Badoni, R.P.	Glycerin-free synthesis of jatropha and pongamia biodiesel in supercritical dimethyl and diethyl carbonate	Industrial and Engineering Chemistry Research	53	26	10525	10533
10	Rai, A., Punase, K.D., Mohanty, B., Bhargava, R.	Evaluation of models for supercritical fluid extraction	International Journal of Heat and Mass Transfer	72		274	287
11	Tiwari, A.K., Bhanja, N., Dar, A.B., Islam, F.	Time-frequency relationship between share prices and exchange rates in India: Evidence from continuous wavelets	Empirical Economics				
12	Rawat, D.S., Joshi, G., Lamba, B.Y., Tiwari, A.K., Mallick, S.	Impact of additives on storage stability of Karanja (Pongamia Pinnata) biodiesel blends with conventional diesel sold at retail outlets	Fuel	120		30	37
13	Kumar, S., Jain, S.	One-step synthesis of superparamagnetic Fe ₃ O ₄ @PANI nanocomposites	Journal of Chemistry	2014			

14	Dewan, R., Kumar, N., Yadav, B., Yadav, V., Biswas, A., Diwan, P., Gupta, R.	Modification in surface chemistry of the polytetrafluoroethylene through chemical graft copolymerization for potential oil contamination control	Particulate Science and Technology	32	2	158	163
15	Awasthi, M.K.	Electrohydrodynamic capillary instability with heat and mass transfer	Ain Shams Engineering Journal	5	1	263	270
16	Yadav, R., Velidi, G., Guven, U.	Aerothermodynamics of generic re-entry vehicle with a series of aerospikes at nose	Acta Astronautica	96	1	1	10
17	Kalyani, K.A., Pandey, K.K.	Waste to energy status in India: A short review	Renewable and Sustainable Energy Reviews	31		113	120
18	Awasthi, M.K., Srivastava, V.K.	Study on electrohydrodynamic Rayleigh-Taylor instability with heat and mass transfer	The Scientific World Journal	2014			
19	Rawal, S.K., Chawla, A.K., Jayaganthan, R., Chandra, R.	The influence of various sputtering parameters on structural, wettability and optical properties of Zr2ON2 thin films	Materials Science and Engineering B: Solid-State Materials for Advanced Technology	181	1	16	23
20	Pardha-Saradhi, P., Yamal, G., Peddisetty, T., Sharmila, P., Singh, J., Nagarajan, R., Rao, K.S.	Plants fabricate Fe-nanocomplexes at root surface to counter and phytostabilize excess ionic Fe	BioMetals	27	1	97	114
21	Ananda Kumar, V., Pandey, K.K., Punia, D.K.	Cyber security threats in the power sector: Need for a domain specific regulatory framework in India	Energy Policy	65		126	133
22	Pardha-Saradhi, P., Yamal, G., Peddisetty, T., Sharmila, P., Singh, J., Nagarajan, R., Rao, K.S.	Root system of live plants is a powerful resource for the green synthesis of Au-nanoparticles	RSC Advances	4	14	7361	7367
23	Kashyap, D., Dwivedi, P.K., Pandey, J.K., Kim, Y.H., Kim, G.M., Sharma, A., Goel, S.	Application of electrochemical impedance spectroscopy in bio-fuel cell characterization: A review	International Journal of Hydrogen Energy	39	35	20159	20170
24	Mohapatra, J.K., Yadav, M.	Returns to acquirers in Indian aviation mergers: A study	Indian Journal of Finance	8	11	44	53
25	Rai, J., Singh, A., Gulati, D.	Bartonian age calcareous nannofossil biostratigraphy of tanot well-1, Jaisalmer Basin and its implications	Journal of the Palaeontological Society of India	59	1	29	44
26	Awasthi, M.K.	Study on capillary instability with heat and mass transfer through porous media: Effect of irrotational viscous pressure	Journal of Fluids Engineering, Transactions of the ASME	136	10		
27	Asthana, R., Awasthi, M.K., Agrawal, G.S.	Magnetoviscous potential flow analysis of Kelvin-Helmholtz instability with heat and mass transfer	Applied Mathematical Modelling	38	23	5490	5501
28	Peters, M.S.	Improving India's installed wind capacity through accelerated depreciation mechanism	European Energy and Environmental Law Review	23	5	203	206

29	Sharma, R.	Element free Galerkin modeling of radiative hydromagnetic micropolar flow saturated Darcy medium with heat transfer over a stretching sheet with Joule heating	Asia-Pacific Journal of Chemical Engineering	9	1	50	62
30	Awasthi, M.K.	Nonlinear rayleigh-taylor instability of cylindrical flow with mass transfer through porous media	International Communications in Heat and Mass Transfer	56		79	85
31	Arora, A.K., Sharma, M., Kumari, R., Jaswal, V.S., Kumar, P.	Synthesis, characterization, and magnetic studies of α -Fe ₂ O ₃ nanoparticles	Journal of Nanotechnology	2014			
32	Desouza, A., Dharmala, K.M., Gondu, S., Gupta, S.K., Adhikari, J.	Fluid phase behavior of ethylene glycol + water mixtures (at operating conditions of the first-stage esterification reactors for PET synthesis) by molecular simulations and activity coefficient (γ - ϕ) method	Journal of Molecular Liquids	199		565	571
33	Gattani, M., Sahoo, P.K., Diwan, P.	Two stroke high efficient gate operated magnetic engine: Basis for modeling approach	Pediatric Radiology	2	4		
34	Awasthi, M.K., Asthana, R., Agrawal, G.S.	Viscoelastic potential flow analysis of the stability of a cylindrical jet	Scientia Iranica	21	3	578	586
35	Srivastava, V.K., Awasthi, M.K.	(1 + n)-Dimensional Burgers' equation and its analytical solution: A comparative study of HPM, ADM and DTM	Ain Shams Engineering Journal	5	2	533	541
36	Awasthi, M.K.	Study on Kelvin-Helmholtz instability of cylindrical flow with mass and heat transfer through porous medium	Journal of Porous Media	17	5	457	467
37	Dasila, P.K., Choudhury, I.R., Saraf, D.N., Kagdiyal, V., Rajagopal, S., Chopra, S.J.	Estimation of FCC feed composition from routinely measured lab properties through ANN model	Fuel Processing Technology	125		155	162
38	Awasthi, M.K.	Effects of the irrotational viscous pressure on magnetohydrodynamic Kelvin-Helmholtz instability with mass transfer through porous media	Journal of Porous Media	17	10	869	881
39	Arora, S., Agarwal, S., Singhal, S.	Anticancer activities of thiosemicarbazides/thiosemicarbazones: A review	International Journal of Pharmacy and Pharmaceutical Sciences	6	9	34	41
40	Awasthi, M.K., Asthana, R., Agrawal, G.S.	Viscous correction for the viscous potential flow analysis of Kelvin-Helmholtz instability of cylindrical flow with heat and mass transfer	International Journal of Heat and Mass Transfer	78		251	259
41	Awasthi, M.K.	Nonlinear analysis of capillary instability with mass transfer through porous media	European Physical Journal Plus	129	5	1	11

42	Awasthi, M.K.	Electrohydrodynamic Kelvin-Helmholtz instability with heat and mass transfer: Effect of perpendicular electric field	Ain Shams Engineering Journal	5	2	605	612
43	Srivastava, V.K., Tamsir, M., Awasthi, M.K., Singh, S.	One-dimensional coupled Burgers' equation and its numerical solution by an implicit logarithmic finite-difference method	AIP Advances	4	3		
44	Latwal, M., Chandra, P., Ali, S.R.	Synthesis of nanostructured copper hexacyanidoferrate and its application in voltammetric detection of salbutamol	Journal of Applied Electrochemistry	44	10	1127	1134
45	Srivastava, V.K., Awasthi, M.K., Kumar, S.	Numerical approximation for HIV infection of CD4+ T cells mathematical model	Ain Shams Engineering Journal	5	2	625	629
46	Pandey, J.K., Ahn, S.-H.	A special issue on bio-based technologies in composites and energy applications	Journal of Biobased Materials and Bioenergy	8	2	115	117
47	Kunte, P.D., Jauhari, N., Mehrotra, U., Kotha, M., Hursthouse, A.S., Gagnon, A.S.	Multi-hazards coastal vulnerability assessment of Goa, India, using geospatial techniques	Ocean and Coastal Management	95		264	281
48	Awasthi, M.K.	Study on electrohydrodynamic capillary instability of viscoelastic fluids with radial electric field	International Journal of Applied Mechanics	6	4		
49	Kumar Awasthi, M.	Three-dimensional magnetohydrodynamic Kelvin-Helmholtz instability of cylindrical flow with permeable boundaries	Physics of Plasmas	21	3		
50	Kumar Awasthi, M.	Evaporative capillary instability for flow in porous media under the influence of axial electric field	Physics of Plasmas	21	4		
51	Yaqoot, M., Diwan, P., Kandpal, T.C.	Solar lighting for street vendors in the city of Dehradun (India): A feasibility assessment with inputs from a survey	Energy for Sustainable Development	21	1	7	12
52	Palit, S.	New dimensions of sustainable development and disaster risk reduction-an Indian perspective	Pollution Research	33	1	89	95
53	Barthwal, S., Chandola-Barthwal, S., Goyal, H., Nirmani, B., Awasthi, B.	Socio-economic acceptance of rooftop rainwater harvesting - A case study	Urban Water Journal	11	3	231	239
54	Yadav, R., Guven, U.	Aerothermodynamics of a hypersonic vehicle with a forward-facing parabolic cavity at nose	Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering	228	10	1863	1874
55	Agrawal, K.K., Jain, S., Jain, A.K., Dahiya, S.	Assessment of greenhouse gas emissions from coal and natural gas thermal power plants using life cycle approach	International Journal of Environmental Science and Technology	11	4	1157	1164

56	Kapoor, K., Pandey, K.K., Jain, A.K., Nandan, A.	Evolution of solar energy in India: A review	Renewable and Sustainable Energy Reviews	40		475	487
57	Kumar, S., Srivastava, V.C., Badoni, R.P.	Oxidative desulfurization of dibenzothiophene by zirconia-based catalysts	International Journal of Chemical Reactor Engineering	12	1		
58	Kondaveeti, S., Kumar, S., Ganesan, M.S., Siddhanta, A.K.	Galactans of Gracilaria pudumadamensis (Gracilariales, Rhodophyta) of Indian waters	Natural Product Communications	9	9	1341	1344
59	Agarwala, P., Makkar, P., Sharma, S., Garg, R.	The effect of heat treatment of TiO ₂ nanoparticles on photovoltaic performance of fabricated DSSCs	Journal of Materials Engineering and Performance	23	10	3703	3709
60	Chu, W.-S., Pandey, J.K., Ahn, S.-H.	Fabrication of bio-composite scaffold for implantable drug delivery system (DDS)	Journal of Biobased Materials and Bioenergy	8	2	230	239
61	Agrawal, K.K., Jain, S., Jain, A.K., Dahiya, S.	A life cycle environmental impact assessment of natural gas combined cycle thermal power plant in Andhra Pradesh, India	Environmental Development	11		162	174
62	Mishra, V., Balomajumder, C., Agarwal, V.K.	Biological removal of heavy metal zinc from industrial effluent by Zinc sequestering bacterium VMSDCM	Clean Technologies and Environmental Policy	16	3	555	568
63	Rajeshwar Mahajan and Santosh K. Gupta	Modeling of diffusional limitations in styrene acrylonitrile random bulk copolymerization	Polymer Engineering and Science				
64	Diwakar Kashyap, Prabhat K. Dwivedi, Jitendra K. Pandey, Young Ho Kim, Gyu Man Kim, Ashutosh Sharma, Sanket Goel	Application of electrochemical impedance spectroscopy in bio-fuel cell characterization: A review	International Journal of Hydrogen Energy	39	35	20170	
65	Piyush Kuchhal, Gagan Anand, Manoj Bansal	Pressure-dependent viscosity and free volume of activation in hydrocarbons and other liquids	ChemTech Research				
66	N. Rajkumar	Governance of Shale Gas in India	International Energy Law Review		6		
67	Anupam Bhandari and Vipin Kumar	Effect of Porosity and Magnetic Field Dependent Viscosity on Revolving Ferrofluid Flow in the Presence of Stationary Disk	Fluid Dynamics & Materials Processing	10	3	359	375
68	Alok Manas Dubey, Ghanshyam Das Agrawal and Suresh Kumar	Thermodynamic analysis of a transcritical CO ₂ /propylene cascade system with split unit in HT cycle	Journal of the Brazilian Society of Mechanical Sciences and Engineering				