

Accepted/Published (2021)

S. No	Authors	Title of Paper	Journal Name	Volume	Year	Starting Page	End Page	Impact Factor	Month
1	Shelly Daksh; Nanda Tarun; Mehta Rajeev	Addition of compatibilized nanoclay to GFRCs for improved izod impact strength and tensile properties	<i>Part L: Journal of Materials: Design and Applications</i>	x	2021	x	x	2.014	03
2	Shelly Daksh; Nanda Tarun; Mehta Rajeev	Addition of compatibilized nanoclay and UHMWPE fibers to epoxy based GFRPs for improved mechanical properties	<i>Composites Part A: Applied Science and Manufacturing</i>	145	2021	106371		6.444	06
3	Jasminder Singh, Haripada Bhunia, Soumen Basu	Adsorption of CO ₂ on KOH activated carbon adsorbents: effect of different mass ratios	Journal of Environmental Management	x	2021	x	x	4.865	11
4	Kaur G, Singh N, Rajor A	Adsorption of doxycycline hydrochloride onto powdered activated carbon synthesized from pumpkin seed shell by microwave assisted pyrolysis	<i>Environmental Technology & Innovation</i>	23	2021	x		3.356	8
5	Sudan A, Kaur A, Gangacharyulu D., Gupta R. K.	Adsorption studies of NaBH ₄ /Al ₂ O ₃ nanoparticles/H ₂ O system with CoCl ₂ as catalyst using Langmuir-Hinshelwood adsorption model	Bulgarian Chemical Communications	x	2021	x	x	0.64	2
6	Rathi N, Kushwaha J P, Singh N, Toor S K, Rajani N, Kumawat P K	Adsorptive interaction of ortho-phenylenediamine with commercial activated carbon in presence of Indole and vice versa: synergistic/antagonistic evaluation	Environment, Development and Sustainability	23	2021	2172	2189	2.2	X
7	Mohit Kumar; J.S. Saini; H. Bhunia	Aging of bolted joints prepared from EB cured MWCNT based nanocomposites with variable torques	Polymer Composites	x	2021	x	x	2.3	X
8	Mohit Kumar; J.S. Saini; H. Bhunia and S. Ray Chowdhury	Behavior of mechanical joints prepared from EB cured CFRP nanocomposites subjected to hygrothermal aging under bolt preloads	Applied Composite Materials	28	2021	271	296	2.2	X
9	Sable, S., Mandal, D.K., Ahuja, S., Bhunia, H.	Biodegradation kinetic modeling of oxo- biodegradable polypropylene/poly lactide/nanoclay blends and composites under controlled composting conditions	Journal of Environmental Management	x	2021	x	x	4.865	10
10	Sunil Sable, Sanjeev Ahuja and Haripada Bhunia	Biodegradation Kinetic Modeling of Pro-oxidant Filled Polypropylene Composites under Thermophilic Composting Conditions after Abiotic Treatment	Environmental Science and Pollution Research	28	2021	21231	21244	3.208	X
11	Kalotra Shivani, Mehta Rajeev	Carbon aerogel and Polyaniline/carbon aerogel adsorbents for Acid green 25 dye: synthesis, characterization and an adsorption study	<i>Chemical Engineering Communications</i>	x	2021	x	x	1.802	04
12	Ray Z., Halder G. Barman S.,	Carbon dioxide sorptive cooling in substitute model refrigeration system for replacing halogenated refrigerants	Environmental Technology & Innovation	23	2021	101636	x	3.40	5

13	Duhan S., Ahmad M. I., Singh S.K. and Kumar M.	Chelating agent and substrate effect on hydrothermal growth of Yb ³⁺ /Er ³⁺ doped NaYF ₄ film	<i>Processing and Applications in Ceramics</i>	15	2021	69	78	0.976	1
14	Puri S., Thakur I., Verma A., Barman S	Degradation of pharmaceutical drug paracetamol via UV irradiation using Fe-TiO ₂ composite photocatalyst: statistical analysis and parametric optimization.	Environmental Science and Pollution Research	x	2021	x	x	3.06	4
15	Kimi Jain, H. Bhunia and M.S. Reddy	Degradation of polypropylene-poly-L-lactide blends by Bacillus isolates: a microcosm and field evaluation	Bioremediation Journal	x	2021	x	x	1.098	X
16	Arya R K, Kaur J, Chandra A, Ahuja S, Rawat M	Designing of biodegradable polycaprolactone: Binary and ternary coatings to minimize the defects and cost of solvent(s)	<i>J App Poly Sci</i>	https://doi.org/10.1002/app.50888	2021	X		2.52	X
17	R. K. Arya, J. Kaur, A. Chandra, S. Ahuja, M. Rawat, J. Sharma	Designing of biodegradable polycaprolactone: Binary and ternary coatings to minimize the defects and cost of solvent(s)	Journal of Applied Polymer Science	50888 Published online	2021	x	x	2.52	4
18	Jasminder Singh, Haripada Bhunia, Soumen Basu	Development of sulphur-doped carbon monolith derived from phenol-formaldehyde resin for fixed bed CO ₂ adsorption	Environmental Technology & Innovation	x	2021	x	x	3.356	x
19	Babu, G., Sharma., J., Chandra, A., Barman S., Arya R. K	Effect of Surfactant on Drying & Rheology of Poly (vinyl alcohol) - Water Coatings"	Drying Technology	x	2021	x	x	2.988	4
20	Kaur G, Singh N, Rajor A	Efficient Adsorption of Doxycycline Hydrochloride Using Deep Eutectic Solvent Functionalized Activated Carbon Derived from Pumpkin Seed Shell	<i>ChemistrySelect</i>	doi/10.1002/slct.202100182	2021	----	----	1.811	----
21	Dongare S, Singh N, Bhunia H	Electrocatalytic reduction of CO ₂ to useful chemicals on copper nanoparticles	<i>Applied Surface Science</i>	537	2021	148020		6.182	
22	Attri N., Singh S.K.	Estimation of Pore Critical Temperature of Nanoconfined Alkanes Using Vapour–Liquid Interfacial Free Energy	<i>Russian Journal of Physical Chemistry B</i>	--	2021 (Accepted)	--	--	0.58	--
23	Harkirat Sandhu, D. Gangacharyulu, Mani Kanwar Singh, and Satish Kumar	Experimentally observed thermal conductivities for Al ₂ O ₃ , CNT, and CuO nanoparticles with water-EG based fluids,	AIP Conference Proceedings. (Scopus Journal)	2341, 040040	2021	1	8	--	5
24	M. Sheoran, A. Chandra, H. Bhunia, P.K Bajpai, H.J. Pant	Industrial scale RTD measurement using gold radiotracer	Iranian Journal of Chemistry and Chemical Engineering	40	2021	313	321	0.604	2
25	R.K. Arya, H. Kaur, M. Rawat, J. Sharma, A. Chandra, S. Ahuja	Influence of plasticizer (triphenyl phosphate) loading on drying of binary coatings: Poly(styrene)-p-xylene coatings	Progress in Organic Coatings	150	2021	106001: 1	106001 : 8	4.469	1
26	Mohit Kumar; J.S. Saini; H. Bhunia	Investigations on MWCNT embedded carbon/epoxy composite joints subjected to hygrothermal aging under bolt preloads	Fibers and Polymers	x	2021	X	X	1.797	X

27	R. Kaur, A. Chandra, S. Sharma	Momentum transfer across a semi-circular porous cylinder attached to a channel wall	Meccanica	Accepted	2021	x	x	2.153	--
28	Dongare S, Singh N, Bhunia H	Nitrogen-doped graphene supported copper nanoparticles for electrochemical reduction of CO ₂	<i>Journal of CO₂ Utilization</i>	44	2021	101382		5.993	X
29	Kaur G, Singh N, Rajor A	Ofloxacin adsorptive interaction with rice husk ash: Parametric and exhausted adsorbent disposability study	<i>Journal of Contaminant Hydrology</i>	236	2021	103737		2.347	1
30	Dongare S, Singh N, Bhunia H	Oxide-derived Cu-Zn nanoparticles supported on N-doped graphene for electrochemical reduction of CO ₂ to ethanol	<i>Applied Surface Science</i>	556	2021	149790		6.182	
31	Mandal S.S., Singh S.K., Bhattacharjee S. and Khan S.	Phase behaviour of confined associating fluid in a functionalized slit pore: a Monte Carlo study	<i>Fluid Phase Equilibria,</i>	531	2021	112909	112919	2.838	11
32	Rani S, Garg A, Singh N	Photocatalytic Degradation and Mineralization of Amoxicillin and Ofloxacin Using TiO ₂ -SiO ₂ Composites	<i>Toxicological & Environmental Chemistry</i>	x	2021	----	----	1.05	
33	Sunil Sable, Sanjeev Ahuja and Haripada Bhunia	Preparation and Characterization of Oxo-degradable Polypropylene Composites Containing a Modified Pro-oxidant	Journal of Polymers and the Environment,	29	2021	721	733	2.765	X
34	Dev K. Mandal, Haripada Bhunia, Pramod K. Bajpai, Chandrasekhar V. Chaudhari, Kumar A. Dubey, Lalit Varshney and Anil Kumar	Preparation and characterization of polypropylene/polylactide blends and nanocomposites and their biodegradation study	Journal of Thermoplastic Composite Materials	34	2021	725	744	1.529	5
35	Rawat M, Ahuja S	Residual solvent minimization in Poly(styrene)-p-xylene coatings using a non-volatile additive	<i>J App Poly Sci</i>	138	2021	50399		2.52	X
36	Rathi A, Basu S., Barman S.,	Structural framework effect of various CeO ₂ -loaded zeolites on the adsorptive removal of fipronil.	Journal of Environmental Chemical Engineering	9	2021	105167		4.3	4
37	Kumar S, Thakur N, Abida K, Kumar A, Gupta R K, Ali A	Transesterification of triglyceride over Ni impregnated Zn/CaO nanocatalysts.	Materials Today: Proceedings.	36/3	2021	A1	A8	Scopus	4