

Haripada P Bhunia

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

2,265
citations

218381

26
h-index

243296

44
g-index

79
all docs

79
docs citations

79
times ranked

2272
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of tracer technology in wastewater treatment processes: a review. <i>Chemical Engineering Communications</i> , 2023, 210, 16-33.	1.5	1
2	Preparation and characterization of polypropylene/polylactide blends and nanocomposites and their biodegradation study. <i>Journal of Thermoplastic Composite Materials</i> , 2021, 34, 725-744.	2.6	15
3	Electrocatalytic reduction of CO ₂ to useful chemicals on copper nanoparticles. <i>Applied Surface Science</i> , 2021, 537, 148020.	3.1	31
4	Preparation and Characterization of Oxo-degradable Polypropylene Composites Containing a Modified Pro-oxidant. <i>Journal of Polymers and the Environment</i> , 2021, 29, 721-733.	2.4	9
5	Nitrogen-doped graphene supported copper nanoparticles for electrochemical reduction of CO ₂ . <i>Journal of CO₂ Utilization</i> , 2021, 44, 101382.	3.3	25
6	Biodegradation kinetic modeling of pro-oxidant filled polypropylene composites under thermophilic composting conditions after abiotic treatment. <i>Environmental Science and Pollution Research</i> , 2021, 28, 21231-21244.	2.7	6
7	Behavior of Mechanical Joints Prepared from EB Cured CFRP Nanocomposites Subjected to Hygrothermal Aging Under Bolt Preloads. <i>Applied Composite Materials</i> , 2021, 28, 271-296.	1.3	8
8	Residence time distribution studies on recycle reactor with recirculation. <i>International Journal of Chemical Reactor Engineering</i> , 2021, 19, 1075-1088.	0.6	1
9	Oxide-derived Cu-Zn nanoparticles supported on N-doped graphene for electrochemical reduction of CO ₂ to ethanol. <i>Applied Surface Science</i> , 2021, 556, 149790.	3.1	24
10	Electrochemical reduction of CO ₂ using oxide based Cu and Zn bimetallic catalyst. <i>Electrochimica Acta</i> , 2021, 392, 138988.	2.6	24
11	Electrochemical Reduction of Carbon Dioxide to Ethanol: A Review. <i>ChemistrySelect</i> , 2021, 6, 11603-11629.	0.7	9
12	CO ₂ capture on activated carbon from PET (polyethylene terephthalate) waste: Kinetics and modeling studies. <i>Chemical Engineering Communications</i> , 2020, 207, 1031-1047.	1.5	11
13	Residence time distribution measurements in an industrial-scale pulp digester using technetium-99m as radiotracer. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 323, 1373-1379.	0.7	7
14	Development of sulphur-doped carbon monolith derived from phenol-formaldehyde resin for fixed bed CO ₂ adsorption. <i>Environmental Technology and Innovation</i> , 2020, 20, 101104.	3.0	12
15	Biodegradation kinetic modeling of acrylic acid-grafted polypropylene during thermophilic phase of composting. <i>Iranian Polymer Journal (English Edition)</i> , 2020, 29, 735-747.	1.3	6
16	Elastomeric Matrix Composites with Enhanced Hybrid Fuel Resistance via Percolation-Assisted Grafting. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2633-2643.	2.0	4
17	The effect of radiation curing on mechanical joints prepared from carbon nanotubes added carbon/epoxy laminates. <i>Polymer Composites</i> , 2020, 41, 4260-4276.	2.3	8
18	Studies on Biodegradability of Cobalt Stearate Filled Polypropylene After Abiotic Treatment. <i>Journal of Polymers and the Environment</i> , 2020, 28, 2236-2252.	2.4	12

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19	Hydrodynamics and parametric study of an activated sludge process using residence time distribution technique. <i>Environmental Engineering Research</i> , 2020, 25, 400-408.	1.5	7
20	Effect of pro-oxidant concentration on characteristics of packaging films of cobalt stearate filled polypropylene. <i>Journal of Polymer Engineering</i> , 2020, 40, 637-646.	0.6	3
21	Adsorption of CO ₂ on KOH activated carbon adsorbents: Effect of different mass ratios. <i>Journal of Environmental Management</i> , 2019, 250, 109457.	3.8	52
22	Biodegradation kinetic modeling of oxo-biodegradable polypropylene/poly lactide/nanoclay blends and composites under controlled composting conditions. <i>Journal of Environmental Management</i> , 2019, 249, 109186.	3.8	27
23	RTD Measurement, Modeling, and Analysis of Liquid Phase of Three-Tube Industrial Pulp Digester. <i>International Journal of Chemical Reactor Engineering</i> , 2019, 17, .	0.6	4
24	Synthesis of sulphur enriched carbon monoliths for dynamic CO ₂ capture. <i>Chemical Engineering Journal</i> , 2019, 374, 1-9.	6.6	31
25	CO ₂ capture by modified porous carbon adsorbents: Effect of various activating agents. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 102, 438-447.	2.7	46
26	Residence time distribution measurements in an ethyl acetate reactor using radiotracer technique. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 320, 711-723.	0.7	4
27	Porous carbons derived from polyethylene terephthalate (PET) waste for CO ₂ capture studies. <i>Journal of Environmental Management</i> , 2019, 242, 68-80.	3.8	61
28	Chemically activated nanoporous carbon adsorbents from waste plastic for CO ₂ capture: Breakthrough adsorption study. <i>Microporous and Mesoporous Materials</i> , 2019, 282, 146-158.	2.2	113
29	Dynamic CO ₂ adsorption on activated carbon adsorbents synthesized from polyacrylonitrile (PAN): Kinetic and isotherm studies. <i>Microporous and Mesoporous Materials</i> , 2019, 280, 357-366.	2.2	63
30	Thermal degradation kinetics of PP/PLA nanocomposite blends. <i>Journal of Thermoplastic Composite Materials</i> , 2019, 32, 1714-1730.	2.6	22
31	SYNTHESIS, CHARACTERIZATION, ADSORPTION AND THERMODYNAMIC STUDIES OF PURE AND BINARY CO ₂ -N ₂ MIXTURES ON OXYGEN ENRICHED NANOSTRUCTURED CARBON ADSORBENTS. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 1319-1331.	0.7	3
32	CO ₂ adsorption on oxygen enriched nanostructured carbons derived from silica templated resorcinol-formaldehyde. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 65, 146-155.	2.9	9
33	Adsorption of CO ₂ on KOH activated, N-enriched carbon derived from urea formaldehyde resin: kinetics, isotherm and thermodynamic studies. <i>Applied Surface Science</i> , 2018, 439, 760-771.	3.1	90
34	Development of chemically activated N-enriched carbon adsorbents from urea-formaldehyde resin for CO ₂ adsorption: Kinetics, isotherm, and thermodynamics. <i>Journal of Environmental Management</i> , 2018, 218, 579-592.	3.8	46
35	Residence time distribution studies using radiotracers in chemical industry—A review. <i>Chemical Engineering Communications</i> , 2018, 205, 739-758.	1.5	29
36	Biodegradation of Pro-oxidant Filled Polypropylene Films and Evaluation of the Ecotoxicological Impact. <i>Journal of Polymers and the Environment</i> , 2018, 26, 1061-1071.	2.4	14

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37	Morphology, rheology and biodegradation of oxo-degradable polypropylene/poly lactide blends. Journal of Polymer Engineering, 2018, 38, 239-249.	0.6	12
38	Evaluation of Biodegradability of Potato Peel Powder Based Polyolefin Biocomposites. Journal of Polymers and the Environment, 2018, 26, 2049-2060.	2.4	9
39	CO ₂ adsorption on oxygen enriched porous carbon monoliths: Kinetics, isotherm and thermodynamic studies. Journal of Industrial and Engineering Chemistry, 2018, 60, 321-332.	2.9	39
40	Circulating Fluid-Bed Studies for CO ₂ Capture from Flue Gas using K ₂ CO ₃ /Al ₂ O ₃ Adsorbent. Energy & Fuels, 2018, 32, 8594-8604.	2.5	12
41	Thermal degradation kinetics of oxo-degradable PP/PLA blends. Journal of Polymer Engineering, 2018, 39, 58-67.	0.6	7
42	Synthesis of porous carbon monolith adsorbents for carbon dioxide capture: Breakthrough adsorption study. Journal of the Taiwan Institute of Chemical Engineers, 2018, 89, 140-150.	2.7	19
43	Adsorption and thermodynamic studies of pure and binary CO ₂ and N ₂ gas components on nitrogen enriched nanostructured carbon adsorbents. Journal of Chemical Thermodynamics, 2018, 125, 205-213.	1.0	5
44	Thermal degradation kinetics and lifetime of high-density polyethylene/poly (l-lactic acid) blends. Journal of Thermoplastic Composite Materials, 2017, 30, 773-793.	2.6	4
45	Epoxy based oxygen enriched porous carbons for CO ₂ capture. Applied Surface Science, 2017, 414, 380-389.	3.1	33
46	Melamine-formaldehyde derived porous carbons for adsorption of CO ₂ capture. Journal of Environmental Management, 2017, 197, 415-427.	3.8	64
47	Thermal degradation kinetics and estimation of lifetime of radiation grafted polypropylene films. Radiation Physics and Chemistry, 2017, 136, 1-8.	1.4	27
48	Dynamic CO ₂ capture by carbon adsorbents: Kinetics, isotherm and thermodynamic studies. Separation and Purification Technology, 2017, 181, 107-122.	3.9	60
49	Prediction of Binary Gas Adsorption of CO ₂ /N ₂ and Thermodynamic Studies on Nitrogen Enriched Nanostructured Carbon Adsorbents. Journal of Chemical & Engineering Data, 2017, 62, 214-225.	1.0	17
50	Optimization of acrylic acid grafting onto polypropylene using response surface methodology and its biodegradability. Radiation Physics and Chemistry, 2017, 132, 71-81.	1.4	36
51	Radiotracer investigation and modeling of an activated sludge system in a pulp and paper industry. Applied Radiation and Isotopes, 2017, 130, 270-275.	0.7	11
52	Radiotracer investigation on the measurement of residence time distribution in an ethyl acetate reactor system with a large recycle ratio. Applied Radiation and Isotopes, 2017, 130, 245-251.	0.7	6
53	Synthesis of nitrogen enriched porous carbons from urea formaldehyde resin and their carbon dioxide adsorption capacity. Journal of CO ₂ Utilization, 2017, 21, 302-313.	3.3	27
54	Pure and Binary Gas Adsorption Equilibrium for CO ₂ and N ₂ on Oxygen Enriched Nanostructured Carbon Adsorbents. Energy & Fuels, 2017, 31, 13991-13998.	2.5	4

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55	Thermo-oxidative degradation kinetics of grafted polypropylene films. Radiation Effects and Defects in Solids, 2017, 172, 878-895.	0.4	5
56	Radiotracer investigation of a pulp and paper mill effluent treatment plant. Nukleonika, 2017, 62, 289-294.	0.3	3
57	Urea-formaldehyde derived porous carbons for adsorption of CO ₂ . RSC Advances, 2016, 6, 111842-111855.	1.7	17
58	Novel nanostructured carbons derived from epoxy resin and their adsorption characteristics for CO ₂ capture. RSC Advances, 2016, 6, 97728-97738.	1.7	30
59	Physico-mechanical properties and biodegradation of oxo-degradable HDPE/PLA blends. Polymer Science - Series A, 2016, 58, 57-75.	0.4	20
60	Measurement of residence time distribution of liquid phase in an industrial-scale continuous pulp digester using radiotracer technique. Applied Radiation and Isotopes, 2016, 111, 10-17.	0.7	11
61	Radiation-induced grafting of acrylic acid onto polypropylene film and its biodegradability. Radiation Physics and Chemistry, 2016, 123, 37-45.	1.4	35
62	Thermal degradation kinetics and lifetime of HDPE/PLLA/pro-oxidant blends. Journal of Polymer Engineering, 2016, 36, 917-931.	0.6	4
63	Carbon dioxide adsorption on nitrogen enriched carbon adsorbents: Experimental, kinetics, isothermal and thermodynamic studies. Journal of CO ₂ Utilization, 2016, 16, 50-63.	3.3	68
64	Novel nitrogen enriched porous carbon adsorbents for CO ₂ capture: Breakthrough adsorption study. Journal of Environmental Chemical Engineering, 2016, 4, 346-356.	3.3	60
65	Synthesis of nitrogen doped mesoporous carbons for carbon dioxide capture. RSC Advances, 2015, 5, 46568-46582.	1.7	63
66	Physico-mechanical characterization and biodegradability behavior of polypropylene/poly(L-lactide) polymer blends. Journal of Polymer Engineering, 2015, 35, 407-415.	0.6	28
67	Effects of the Adsorbent Preparation Method for CO ₂ Capture from Flue Gas Using K ₂ CO ₃ /Al ₂ O ₃ Adsorbents. Energy & Fuels, 2015, 29, 287-297.	2.5	32
68	Development of nitrogen enriched nanostructured carbon adsorbents for CO ₂ capture. Journal of Environmental Management, 2015, 162, 20-29.	3.8	26
69	Mesoporous carbon adsorbents from melamine-formaldehyde resin using nanocasting technique for CO ₂ adsorption. Journal of Environmental Sciences, 2015, 32, 238-248.	3.2	47
70	Resorcinol-formaldehyde based nanostructured carbons for CO ₂ adsorption: kinetics, isotherm and thermodynamic studies. RSC Advances, 2015, 5, 93563-93578.	1.7	56
71	Kinetics of Thiophene Hydrodesulphurization: Pore Diffusional Effects. Energy Technology, 2014, 2, 763-766.	1.8	0
72	Mechanical and morphological properties of high density polyethylene and polylactide blends. Journal of Polymer Engineering, 2014, 34, 813-821.	0.6	30

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73	Improvement in Regeneration Properties and Multicycle Stability for K_2CO_3/Al_2O_3 Adsorbents for CO_2 Removal from Flue Gas. Energy & Fuels, 2014, 28, 5354-5362.	2.5	16
74	Blends of high density polyethylene and poly(L-lactic acid): Mechanical and thermal properties. Polymer Engineering and Science, 2014, 54, 2155-2160.	1.5	15
75	Thermal degradation and physical aging of linear low density polyethylene and poly(l-lactic acid) blends. Journal of Polymer Engineering, 2012, 32, .	0.6	10
76	Degradation behaviors of linear low density polyethylene and poly(L-lactic acid) blends. Journal of Applied Polymer Science, 2012, 124, 1993-1998.	1.3	26
77	Thermal properties and degradation characteristics of polylactide, linear low density polyethylene, and their blends. Polymer Bulletin, 2011, 66, 939-953.	1.7	44
78	Synthesis of Poly(Lactic Acid): A Review. Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics, 2005, 45, 325-349.	2.2	389
79	Comparative Study of Two Identical Industrial Digesters Using Radiotracer Based Residence Time Distribution Measurement. Chemical Engineering and Technology, 0, , .	0.9	1