

# Haripada P Bhunia

## List of Publications by Year in descending order

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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	Synthesis of Poly(Lactic Acid): A Review. Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics, 2005, 45, 325-349.	2.2	389
2	Chemically activated nanoporous carbon adsorbents from waste plastic for CO <sub>2</sub> capture: Breakthrough adsorption study. Microporous and Mesoporous Materials, 2019, 282, 146-158.	2.2	113
3	Adsorption of CO <sub>2</sub> on KOH activated, N-enriched carbon derived from urea formaldehyde resin: kinetics, isotherm and thermodynamic studies. Applied Surface Science, 2018, 439, 760-771.	3.1	90
4	Carbon dioxide adsorption on nitrogen enriched carbon adsorbents: Experimental, kinetics, isothermal and thermodynamic studies. Journal of CO <sub>2</sub> Utilization, 2016, 16, 50-63.	3.3	68
5	Melamine-formaldehyde derived porous carbons for adsorption of CO <sub>2</sub> capture. Journal of Environmental Management, 2017, 197, 415-427.	3.8	64
6	Synthesis of nitrogen doped mesoporous carbons for carbon dioxide capture. RSC Advances, 2015, 5, 46568-46582.	1.7	63
7	Dynamic CO <sub>2</sub> adsorption on activated carbon adsorbents synthesized from polyacrylonitrile (PAN): Kinetic and isotherm studies. Microporous and Mesoporous Materials, 2019, 280, 357-366.	2.2	63
8	Porous carbons derived from polyethylene terephthalate (PET) waste for CO <sub>2</sub> capture studies. Journal of Environmental Management, 2019, 242, 68-80.	3.8	61
9	Novel nitrogen enriched porous carbon adsorbents for CO <sub>2</sub> capture: Breakthrough adsorption study. Journal of Environmental Chemical Engineering, 2016, 4, 346-356.	3.3	60
10	Dynamic CO <sub>2</sub> capture by carbon adsorbents: Kinetics, isotherm and thermodynamic studies. Separation and Purification Technology, 2017, 181, 107-122.	3.9	60
11	Resorcinol-formaldehyde based nanostructured carbons for CO <sub>2</sub> adsorption: kinetics, isotherm and thermodynamic studies. RSC Advances, 2015, 5, 93563-93578.	1.7	56
12	Adsorption of CO <sub>2</sub> on KOH activated carbon adsorbents: Effect of different mass ratios. Journal of Environmental Management, 2019, 250, 109457.	3.8	52
13	Mesoporous carbon adsorbents from melamine-formaldehyde resin using nanocasting technique for CO <sub>2</sub> adsorption. Journal of Environmental Sciences, 2015, 32, 238-248.	3.2	47
14	Development of chemically activated N-enriched carbon adsorbents from urea-formaldehyde resin for CO <sub>2</sub> adsorption: Kinetics, isotherm, and thermodynamics. Journal of Environmental Management, 2018, 218, 579-592.	3.8	46
15	CO <sub>2</sub> capture by modified porous carbon adsorbents: Effect of various activating agents. Journal of the Taiwan Institute of Chemical Engineers, 2019, 102, 438-447.	2.7	46
16	Thermal properties and degradation characteristics of polylactide, linear low density polyethylene, and their blends. Polymer Bulletin, 2011, 66, 939-953.	1.7	44
17	CO <sub>2</sub> 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
18	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

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19	Radiation-induced grafting of acrylic acid onto polypropylene film and its biodegradability. Radiation Physics and Chemistry, 2016, 123, 37-45.	1.4	35
20	Epoxy based oxygen enriched porous carbons for CO <sub>2</sub> capture. Applied Surface Science, 2017, 414, 380-389.	3.1	33
21	Effects of the Adsorbent Preparation Method for CO <sub>2</sub> Capture from Flue Gas Using K <sub>2</sub> CO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> Adsorbents. Energy & Fuels, 2015, 29, 287-297.	2.5	32
22	Synthesis of sulphur enriched carbon monoliths for dynamic CO <sub>2</sub> capture. Chemical Engineering Journal, 2019, 374, 1-9.	6.6	31
23	Electrocatalytic reduction of CO <sub>2</sub> to useful chemicals on copper nanoparticles. Applied Surface Science, 2021, 537, 148020.	3.1	31
24	Mechanical and morphological properties of high density polyethylene and polylactide blends. Journal of Polymer Engineering, 2014, 34, 813-821.	0.6	30
25	Novel nanostructured carbons derived from epoxy resin and their adsorption characteristics for CO <sub>2</sub> capture. RSC Advances, 2016, 6, 97728-97738.	1.7	30
26	Residence time distribution studies using radiotracers in chemical industry—A review. Chemical Engineering Communications, 2018, 205, 739-758.	1.5	29
27	Physico-mechanical characterization and biodegradability behavior of polypropylene/poly(L-lactide) polymer blends. Journal of Polymer Engineering, 2015, 35, 407-415.	0.6	28
28	Thermal degradation kinetics and estimation of lifetime of radiation grafted polypropylene films. Radiation Physics and Chemistry, 2017, 136, 1-8.	1.4	27
29	Synthesis of nitrogen enriched porous carbons from urea formaldehyde resin and their carbon dioxide adsorption capacity. Journal of CO <sub>2</sub> Utilization, 2017, 21, 302-313.	3.3	27
30	Biodegradation kinetic modeling of oxo-biodegradable polypropylene/polylactide/nanoclay blends and composites under controlled composting conditions. Journal of Environmental Management, 2019, 249, 109186.	3.8	27
31	Degradation behaviors of linear low-density polyethylene and poly(L-lactide) blends. Journal of Applied Polymer Science, 2012, 124, 1993-1998.	1.3	26
32	Development of nitrogen enriched nanostructured carbon adsorbents for CO <sub>2</sub> capture. Journal of Environmental Management, 2015, 162, 20-29.	3.8	26
33	Nitrogen-doped graphene supported copper nanoparticles for electrochemical reduction of CO <sub>2</sub> . Journal of CO <sub>2</sub> Utilization, 2021, 44, 101382.	3.3	25
34	Oxide-derived Cu-Zn nanoparticles supported on N-doped graphene for electrochemical reduction of CO <sub>2</sub> to ethanol. Applied Surface Science, 2021, 556, 149790.	3.1	24
35	Electrochemical reduction of CO <sub>2</sub> using oxide based Cu and Zn bimetallic catalyst. Electrochimica Acta, 2021, 392, 138988.	2.6	24
36	Thermal degradation kinetics of PP/PLA nanocomposite blends. Journal of Thermoplastic Composite Materials, 2019, 32, 1714-1730.	2.6	22

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37	Physico-mechanical properties and biodegradation of oxo-degradable HDPE/PLA blends. <i>Polymer Science - Series A</i> , 2016, 58, 57-75.	0.4	20
38	Synthesis of porous carbon monolith adsorbents for carbon dioxide capture: Breakthrough adsorption study. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 89, 140-150.	2.7	19
39	Urea-formaldehyde derived porous carbons for adsorption of CO <sub>2</sub> . <i>RSC Advances</i> , 2016, 6, 111842-111855.	1.7	17
40	Prediction of Binary Gas Adsorption of CO <sub>2</sub> /N <sub>2</sub> and Thermodynamic Studies on Nitrogen Enriched Nanostructured Carbon Adsorbents. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 214-225.	1.0	17
41	Improvement in Regeneration Properties and Multicycle Stability for K <sub>2</sub> CO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> Adsorbents for CO <sub>2</sub> Removal from Flue Gas. <i>Energy &amp; Fuels</i> , 2014, 28, 5354-5362.	2.5	16
42	Blends of high density polyethylene and poly(l-lactic acid): Mechanical and thermal properties. <i>Polymer Engineering and Science</i> , 2014, 54, 2155-2160.	1.5	15
43	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
44	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
45	Morphology, rheology and biodegradation of oxo-degradable polypropylene/polylactide blends. <i>Journal of Polymer Engineering</i> , 2018, 38, 239-249.	0.6	12
46	Circulating Fluid-Bed Studies for CO <sub>2</sub> Capture from Flue Gas using K <sub>2</sub> CO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> Adsorbent. <i>Energy &amp; Fuels</i> , 2018, 32, 8594-8604.	2.5	12
47	Development of sulphur-doped carbon monolith derived from phenol-formaldehyde resin for fixed bed CO <sub>2</sub> adsorption. <i>Environmental Technology and Innovation</i> , 2020, 20, 101104.	3.0	12
48	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
49	Measurement of residence time distribution of liquid phase in an industrial-scale continuous pulp digester using radiotracer technique. <i>Applied Radiation and Isotopes</i> , 2016, 111, 10-17.	0.7	11
50	Radiotracer investigation and modeling of an activated sludge system in a pulp and paper industry. <i>Applied Radiation and Isotopes</i> , 2017, 130, 270-275.	0.7	11
51	CO <sub>2</sub> 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
52	Thermal degradation and physical aging of linear low density polyethylene and poly(l-lactic acid) blends. <i>Journal of Polymer Engineering</i> , 2012, 32, .	0.6	10
53	CO <sub>2</sub> 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
54	Evaluation of Biodegradability of Potato Peel Powder Based Polyolefin Biocomposites. <i>Journal of Polymers and the Environment</i> , 2018, 26, 2049-2060.	2.4	9

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55	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
56	Electrochemical Reduction of Carbon Dioxide to Ethanol: A Review. <i>ChemistrySelect</i> , 2021, 6, 11603-11629.	0.7	9
57	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
58	Behavior of Mechanical Joints Prepared from EB Cured CFRP Nanocomposites Subjected to Hydrothermal Aging Under Bolt Preloads. <i>Applied Composite Materials</i> , 2021, 28, 271-296.	1.3	8
59	Thermal degradation kinetics of oxo-degradable PP/PLA blends. <i>Journal of Polymer Engineering</i> , 2018, 39, 58-67.	0.6	7
60	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
61	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
62	Radiotracer investigation on the measurement of residence time distribution in an ethyl acetate reactor system with a large recycle ratio. <i>Applied Radiation and Isotopes</i> , 2017, 130, 245-251.	0.7	6
63	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
64	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
65	Thermo-oxidative degradation kinetics of grafted polypropylene films. <i>Radiation Effects and Defects in Solids</i> , 2017, 172, 878-895.	0.4	5
66	Adsorption and thermodynamic studies of pure and binary CO <sub>2</sub> and N <sub>2</sub> gas components on nitrogen enriched nanostructured carbon adsorbents. <i>Journal of Chemical Thermodynamics</i> , 2018, 125, 205-213.	1.0	5
67	Thermal degradation kinetics and lifetime of HDPE/PLLA/pro-oxidant blends. <i>Journal of Polymer Engineering</i> , 2016, 36, 917-931.	0.6	4
68	Thermal degradation kinetics and lifetime of high-density polyethylene/poly (l-lactic acid) blends. <i>Journal of Thermoplastic Composite Materials</i> , 2017, 30, 773-793.	2.6	4
69	Pure and Binary Gas Adsorption Equilibrium for CO <sub>2</sub> and N <sub>2</sub> on Oxygen Enriched Nanostructured Carbon Adsorbents. <i>Energy &amp; Fuels</i> , 2017, 31, 13991-13998.	2.5	4
70	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
71	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
72	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

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73	Radiotracer investigation of a pulp and paper mill effluent treatment plant. Nukleonika, 2017, 62, 289-294.	0.3	3
74	SYNTHESIS, CHARACTERIZATION, ADSORPTION AND THERMODYNAMIC STUDIES OF PURE AND BINARY CO <sub>2</sub> -N <sub>2</sub> MIXTURES ON OXYGEN ENRICHED NANOSTRUCTURED CARBON ADSORBENTS. Brazilian Journal of Chemical Engineering, 2019, 36, 1319-1331.	0.7	3
75	Effect of pro-oxidant concentration on characteristics of packaging films of cobalt stearate filled polypropylene. Journal of Polymer Engineering, 2020, 40, 637-646.	0.6	3
76	Residence time distribution studies on recycle reactor with recirculation. International Journal of Chemical Reactor Engineering, 2021, 19, 1075-1088.	0.6	1
77	Application of tracer technology in wastewater treatment processes: a review. Chemical Engineering Communications, 2023, 210, 16-33.	1.5	1
78	Comparative Study of Two Identical Industrial Digesters Using Radiotracer-Based Residence Time Distribution Measurement. Chemical Engineering and Technology, 0, , .	0.9	1
79	Kinetics of Thiophene Hydrodesulphurization: Pore Diffusional Effects. Energy Technology, 2014, 2, 763-766.	1.8	0