

# Sachin A Mandavgane

## List of Publications by Citations

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73  
papers

1,820  
citations

23  
h-index

41  
g-index

84  
ext. papers

2,251  
ext. citations

4.1  
avg, IF

5.56  
L-index

#	Paper	IF	Citations
73	Application of agro-waste for sustainable construction materials: A review. <i>Construction and Building Materials</i> , <b>2013</b> , 38, 872-878	6.7	274
72	Development of sustainable construction material using industrial and agricultural solid waste: A review of waste-create bricks. <i>Construction and Building Materials</i> , <b>2011</b> , 25, 4037-4042	6.7	231
71	Fruit Peel Waste:Characterization and its Potential Uses. <i>Current Science</i> , <b>2017</b> , 113, 444	2.2	99
70	A Review of Chemicals to Produce Activated Carbon from Agricultural Waste Biomass. <i>Sustainability</i> , <b>2019</b> , 11, 6204	3.6	86
69	Fruit peel waste as a novel low-cost bio adsorbent. <i>Reviews in Chemical Engineering</i> , <b>2015</b> , 31,	5	76
68	Reuse of cotton and recycle paper mill waste as building material. <i>Construction and Building Materials</i> , <b>2012</b> , 34, 470-475	6.7	66
67	Reuse of recycle paper mill waste in energy absorbing light weight bricks. <i>Construction and Building Materials</i> , <b>2012</b> , 27, 247-251	6.7	65
66	Improving environmental performance of building through increased energy efficiency: A review. <i>Sustainable Cities and Society</i> , <b>2011</b> , 1, 211-218	10.1	54
65	Development and Feasibility Analysis of Bagasse Ash Bricks. <i>Journal of Energy Engineering - ASCE</i> , <b>2015</b> , 141, 04014022	1.7	47
64	Valorization of potato peel: a biorefinery approach. <i>Critical Reviews in Biotechnology</i> , <b>2018</b> , 38, 218-230	9.4	46
63	Process of fruit peel waste biorefinery: a case study of citrus waste biorefinery, its environmental impacts and recommendations. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 34713-34722	5.1	44
62	Preparation and characterization of raw and carbon from banana peel by microwave activation: Application in citric acid adsorption. <i>Journal of Environmental Chemical Engineering</i> , <b>2015</b> , 3, 2435-2447	6.8	42
61	Utilization of recycle paper mill residue and rice husk ash in production of light weight bricks. <i>Archives of Civil and Mechanical Engineering</i> , <b>2013</b> , 13, 269-275	3.4	41
60	Characterizing Fruit and Vegetable Peels as Bioadsorbents. <i>Current Science</i> , <b>2016</b> , 110, 2114	2.2	37
59	Valorization of Pomegranate Peels: A Biorefinery Approach. <i>Waste and Biomass Valorization</i> , <b>2017</b> , 8, 1127-1137	3.2	35
58	Sustainability assessment of brick work for low-cost housing: A comparison between waste based bricks and burnt clay bricks. <i>Sustainable Cities and Society</i> , <b>2018</b> , 37, 396-406	10.1	35
57	Mustard plant ash: a source of micronutrient and an adsorbent for removal of 2,4-dichlorophenoxyacetic acid. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 20087-20099	5.1	29

56	Ultrafast Removal of Cationic Dye Using Agrowaste-Derived Mesoporous Adsorbent. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 18558-18567	3.9	29
55	Adsorptive removal of 2,4-dichlorophenoxyacetic acid from aqueous solution using bagasse fly ash as adsorbent in batch and packed-bed techniques. <i>Clean Technologies and Environmental Policy</i> , <b>2016</b> , 18, 1971-1983	4.3	28
54	2,4-Dichlorophenoxyacetic acid adsorption on adsorbent prepared from groundnut shell: Effect of preparation conditions on equilibrium adsorption capacity. <i>Arabian Journal of Chemistry</i> , <b>2019</b> , 12, 4541-4549	5.9	26
53	Estimation of packed-bed parameters and prediction of breakthrough curves for adsorptive removal of 2,4-dichlorophenoxyacetic acid using rice husk ash. <i>Journal of Environmental Chemical Engineering</i> , <b>2015</b> , 3, 1827-1836	6.8	25
52	Characterization and valorization of biomass ashes. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 20243-20256	5.1	24
51	Rice Husk Ash for Fast Removal of 2,4-Dichlorophenoxyacetic Acid from Aqueous Solution. <i>Adsorption Science and Technology</i> , <b>2015</b> , 33, 429-440	3.6	24
50	Numerical investigation of heat transfer and friction factor characteristics from in-line cam shaped tube bank in crossflow. <i>Applied Thermal Engineering</i> , <b>2017</b> , 110, 521-538	5.8	23
49	Adsorptive removal of diuron on biomass ashes: a comparative study using rice husk ash and bagasse fly ash as adsorbents. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 22378-22391		22
48	Fundamentals of 2, 4 Dichlorophenoxyacetic Acid Removal from Aqueous Solutions. <i>Separation and Purification Reviews</i> , <b>2018</b> , 47, 337-354	7.3	21
47	Comparative study of adsorption of Ni (II) on RHA and carbon embedded silica obtained from RHA. <i>Chemical Engineering Journal</i> , <b>2012</b> , 181-182, 376-386	14.7	20
46	Waste to Wealth: A Case Study of Papaya Peel. <i>Waste and Biomass Valorization</i> , <b>2019</b> , 10, 1755-1766	3.2	20
45	Environmental Impact Study of Bagasse Valorization Routes. <i>Waste and Biomass Valorization</i> , <b>2019</b> , 10, 2067-2078	3.2	20
44	Adsorptive Removal of Diuron Herbicide on Carbon Nanotubes Synthesized from Plastic Waste. <i>Journal of Polymers and the Environment</i> , <b>2017</b> , 25, 165-175	4.5	19
43	Process development and life cycle assessment of pomegranate biorefinery. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 25785-25793	5.1	16
42	Valorization of banana peel: a biorefinery approach. <i>Reviews in Chemical Engineering</i> , <b>2016</b> , 32,	5	16
41	Agro-industrial waste: a low cost adsorbent for effective removal of 4-chloro-2-methylphenoxyacetic acid herbicide in batch and packed bed modes. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 16164-75	5.1	16
40	Behaviour of Biomass Multicomponent Ashes as Adsorbents. <i>Current Science</i> , <b>2016</b> , 110, 180	2.2	13
39	Utilization of cotton plant ash and char for removal of 2, 4-dichlorophenoxyacetic acid. <i>Resource-efficient Technologies</i> , <b>2016</b> , 2, S39-S46	2	13

38	Utilization of banana peel for the removal of benzoic and salicylic acid from aqueous solutions and its potential reuse. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 12717-12729		12
37	Polyoxometalate based mesoporous acidic catalyst from biogenic silica for vegetable oil methanolysis: Structure activity relationship study. <i>Applied Catalysis A: General</i> , <b>2017</b> , 539, 38-47	5.1	11
36	Thermal Performance Assessment of Recycled Paper Mill Waste Cement Bricks Using the Small-Scale Model Technique. <i>Journal of Energy Engineering - ASCE</i> , <b>2014</b> , 140, 04014001	1.7	11
35	Characterization and valorization of biomass char: a comparison with biomass ash. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 3458-3467	5.1	11
34	A methodology of evaluating sustainability index of a biomass processing enterprise: a case study of native cow dung-urine biorefinery. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 27435-27448	5.1	8
33	Valorization of fruit and vegetable waste for biofertilizer and biogas. <i>Journal of Food Process Engineering</i> , <b>2021</b> , 44, e13512	2.4	7
32	Process development of silica extraction from RHA: a cradle to gate environmental impact approach. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 492-500	5.1	6
31	Use of Wheat Straw Combustion Residues for Removal of Chlorinated Herbicide (2,4-Dichlorophenoxyacetic Acid). <i>Waste and Biomass Valorization</i> , <b>2019</b> , 10, 1323-1331	3.2	6
30	Biomass ashes as potent adsorbent for pesticide: prediction of adsorption capacity by artificial neural network. <i>International Journal of Environmental Science and Technology</i> , <b>2020</b> , 17, 3209-3216	3.3	5
29	Comparative evaluation of packed-bed performance of biomass ashes as adsorbents for removal of diuron from aqueous solution. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 28831-28846		5
28	Application of Recycle Paper Mill Waste (RPMW) as a Thermal Insulation Material. <i>Waste and Biomass Valorization</i> , <b>2019</b> , 10, 2343-2352	3.2	5
27	Utilization of an Agro Waste, Groundnut Shell Ash, for Removal of 2,4-Dichlorophenoxyacetic Acid <b>2016</b> , 165-173		4
26	Experimental studies on coal-water slurry fuel prepared from pretreated low-grade coal. <i>International Journal of Coal Preparation and Utilization</i> , <b>2019</b> , 1-15	1.2	4
25	Fun with fluid: An innovative assignment in fluid mechanics. <i>Education for Chemical Engineers</i> , <b>2020</b> , 30, 40-48	2.4	4
24	Current trends in non-dairy based synbiotics. <i>Critical Reviews in Biotechnology</i> , <b>2021</b> , 41, 935-952	9.4	4
23	Valorization of Cow Urine and Dung: A Model Biorefinery. <i>Waste and Biomass Valorization</i> , <b>2020</b> , 11, 1193-1204	3.1	4
22	Waste to wealth-recovery of total dietary fibers from waste peel: a generalized model for predicting operating parameters. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1, 1-11	2.3	4
21	Framework for calculating ecological footprint of process industries in local hectares using emergy and LCA approach. <i>Clean Technologies and Environmental Policy</i> , <b>2020</b> , 22, 2207-2221	4.3	3

20	Characterization and Testing of Fine Powder Formulation of Whole Neem Fruits. <i>Current Science</i> , <b>2017</b> , 112, 1942	2.2	2
19	Life Cycle Assessment of Biomass Pyrolysis. <i>Bioenergy Research</i> ,1	3.1	2
18	Dietary fibers from fruit and vegetable waste: methods of extraction and processes of value addition. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	2
17	Polyphenols in fruit and vegetable peel extract: procedure of selective extraction and method of analysis. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	2
16	A comparative study and combined application of RSM and ANN in adsorptive removal of diuron using biomass ashes. <i>International Journal of Chemical Reactor Engineering</i> , <b>2021</b> ,	1.2	2
15	Biomass waste: A potential feedstock for cellulase production <b>2021</b> , 347-359		2
14	Sugarcane valorization: selection of process routes based on sustainability index. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	2
13	Wheat Straw Valorization <b>2020</b> , 369-382		1
12	Antioxidant analysis of ultra-fast selectively recovered 4-hydroxy benzoic acid from fruits and vegetable peel waste using graphene oxide based molecularly imprinted composite.. <i>Food Chemistry</i> , <b>2021</b> , 376, 131926	8.5	1
11	Current trends in essential oil (EO) production. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	1
10	A process of carbon enrichment of bottom slag ash for value-added applications. <i>Journal of Material Cycles and Waste Management</i> , <b>2019</b> , 21, 539-546	3.4	1
9	Comparison of different concrete compositions based on sustainability score. <i>International Journal of Sustainable Engineering</i> ,1-12	3.1	1
8	Anaerobic digestion of agrowastes <b>2022</b> , 233-251		0
7	The circular agricultural system is more sustainable: emergy analysis. <i>Clean Technologies and Environmental Policy</i> ,1	4.3	0
6	Orange waste peel to high value soluble dietary fiber concentrate: comparison of conversion methods and their environmental impact. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	0
5	Valorization of Punica granatum (pomegranate) peels: a case study of circular bioeconomy. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	0
4	Value-Added Products from Guava Waste by Biorefinery Approach <b>2020</b> , 163-195		
3	Inventory calculation for commercial production of cereal grain flour using particle size distribution model. <i>Journal of Food Science and Technology</i> ,1	3.3	

- 2 Separation and Recovery of 4-Hydroxybenzoic Acid Using Molecular Imprinting Technique from Dilute Solution. *Journal of the Institution of Engineers (India): Series E*,1 0.6
- 1 MIVES: A Multi-Attribute Value Function-Based Methodology for Sustainability Assessment. *Studies in Systems, Decision and Control*, **2022**, 1-16 0.8