

# Sumathi Sethupathi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3596213/publications.pdf>

Version: 2024-02-01

74  
papers

3,668  
citations

147786

31  
h-index

133244

59  
g-index

75  
all docs

75  
docs citations

75  
times ranked

4467  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of oil palm fiber biochar and activated biochar for sulphur dioxide adsorption. <i>Science of the Total Environment</i> , 2022, 805, 150421.	8.0	25
2	A review on the removal of hydrogen sulfide from biogas by adsorption using sorbents derived from waste. <i>Reviews in Chemical Engineering</i> , 2021, 37, 407-431.	4.4	23
3	Ancillary palm oil fuel ash (POFA) in sequencing batch reactor for enhancing recalcitrant pollutants removal from domestic wastewater. <i>Chemosphere</i> , 2021, 265, 129050.	8.2	3
4	Valorization of Raw and Calcined Chicken Eggshell for Sulfur Dioxide and Hydrogen Sulfide Removal at Low Temperature. <i>Catalysts</i> , 2021, 11, 295.	3.5	16
5	Development of a novel polyvinylidene fluoride membrane integrated with palm oil fuel ash for stabilized landfill leachate treatment. <i>Journal of Cleaner Production</i> , 2021, 311, 127677.	9.3	4
6	Hydrogen Production via Activated Waste Aluminum Cans and Its Potential for Methanation. <i>Energy &amp; Fuels</i> , 2021, 35, 16212-16221.	5.1	9
7	Thermal Performance of Finned Heat Sinks Embedded with Form-Stable Myristic Acid Phase Change Material in Photovoltaic Cooling for Green Energy Storage. <i>Energies</i> , 2021, 14, 6860.	3.1	1
8	Effect of $\text{CO}_2$ adsorbents on the Ni-based dual-function materials for $\text{CO}_2$ capturing and in situ methanation. <i>Journal of the Chinese Chemical Society</i> , 2020, 67, 998-1008.	1.4	32
9	Bimetallic Metal-Organic Framework-Derived Hybrid Nanostructures as High-Performance Catalysts for Methane Dry Reforming. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 15183-15193.	8.0	67
10	Colour and COD removal from mature landfill leachate using electro-persulphate oxidation process. <i>Materials Today: Proceedings</i> , 2020, 31, 69-74.	1.8	14
11	Adsorption of $\text{SO}_2$ and $\text{H}_2\text{S}$ by sonicated raw eggshell. <i>Materials Today: Proceedings</i> , 2020, 31, 36-42.	1.8	1
12	Selectivity of $\text{SO}_2$ and $\text{H}_2\text{S}$ removal by ethanol-treated calcined eggshell at low temperature. <i>Environmental Science and Pollution Research</i> , 2020, 27, 22065-22080.	5.3	5
13	Optimization of activated palm oil sludge biochar preparation for sulphur dioxide adsorption. <i>Journal of Environmental Management</i> , 2019, 248, 109302.	7.8	32
14	Sustainable Waste-to-Energy Development in Malaysia: Appraisal of Environmental, Financial, and Public Issues Related with Energy Recovery from Municipal Solid Waste. <i>Processes</i> , 2019, 7, 676.	2.8	74
15	Hydrogen sulfide removal using diatomite. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
16	Carbon dioxide adsorption by raw and modified diatomite. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
17	Potential use of waste cockle shell as filler for thermoplastic composite. <i>Journal of Material Cycles and Waste Management</i> , 2019, 21, 1063-1074.	3.0	18
18	Adsorptive behaviour of palm oil mill sludge biochar pyrolyzed at low temperature for copper and cadmium removal. <i>Journal of Environmental Management</i> , 2019, 237, 281-288.	7.8	57

#	ARTICLE	IF	CITATIONS
19	Adsorptive treatment of stabilized landfill leachate using activated palm oil fuel ash (POFA). AIP Conference Proceedings, 2019, , .	0.4	8
20	Preparation of Metal Organic Framework (MOF) Derived Bimetallic Catalyst for Dry Reforming of Methane &#xOD;. International Journal of Technology, 2019, 10, 1437.	0.8	4
21	Global Warming Mitigation Effort in Malaysian Transportation Sector. Journal of Engineering and Applied Sciences, 2019, 14, 6097-6100.	0.2	0
22	Molybdenum disulfide quantum dots decorated bismuth sulfide as a superior noble-metal-free photocatalyst for hydrogen evolution through harnessing a broad solar spectrum. Applied Catalysis B: Environmental, 2018, 232, 117-123.	20.2	36
23	Applicability of anaerobic membrane bioreactors for landfill leachate treatment: Review and opportunity. IOP Conference Series: Earth and Environmental Science, 2018, 140, 012033.	0.3	12
24	CO <sub>2</sub> methanation over Ni and Rh based catalysts: Process optimization at moderate temperature. International Journal of Energy Research, 2018, 42, 3289-3302.	4.5	19
25	Optimization of palm oil mill sludge biochar preparation for sulfur dioxide removal. Environmental Science and Pollution Research, 2018, 25, 25702-25714.	5.3	19
26	A sequential treatment of intermediate tropical landfill leachate using a sequencing batch reactor (SBR) and coagulation. Journal of Environmental Management, 2018, 205, 244-252.	7.8	77
27	Hydrogen sulfide emission sources, regulations, and removal techniques: a review. Reviews in Chemical Engineering, 2018, 34, 837-854.	4.4	93
28	Copper-doped flower-like molybdenum disulfide/bismuth sulfide photocatalysts for enhanced solar water splitting. International Journal of Hydrogen Energy, 2018, 43, 748-756.	7.1	48
29	Production of H <sub>2</sub> from aluminium/water reaction and its potential for CO <sub>2</sub> methanation. IOP Conference Series: Earth and Environmental Science, 2018, 140, 012020.	0.3	6
30	Adsorption of trimethyltin, arsenic and zinc by palm oil mill sludge biochar prepared by microwave. AIP Conference Proceedings, 2017, , .	0.4	3
31	Bismuth sulphide-modified molybdenum disulphide as an efficient photocatalyst for hydrogen production under simulated solar light. Catalysis Communications, 2017, 98, 66-70.	3.3	25
32	Preparation of Palm Oil Mill Effluent Sludge Biochar for the Treatment of Landfill Leachate. MATEC Web of Conferences, 2017, 103, 06008.	0.2	7
33	Two-dimensional bismuth oxybromide coupled with molybdenum disulphide for enhanced dye degradation using low power energy-saving light bulb. Journal of Environmental Management, 2017, 197, 63-69.	7.8	25
34	Sequential treatment for landfill leachate by applying coagulation-adsorption process. Geosystem Engineering, 2017, 20, 9-20.	1.4	20
35	Biochars as Potential Adsorbers of CH <sub>4</sub> , CO <sub>2</sub> and H <sub>2</sub> S. Sustainability, 2017, 9, 121.	3.2	68
36	CO <sub>2</sub> Adsorption by Modified Palm Shell Activated Carbon (PSAC) Via Chemical and Physical Activation and Metal Impregnation. Chemical Engineering Communications, 2016, 203, 1455-1463.	2.6	23

#	ARTICLE	IF	CITATIONS
37	Feasibility of CO <sub>2</sub> adsorption by solid adsorbents: a review on low-temperature systems. International Journal of Environmental Science and Technology, 2016, 13, 1839-1860.	3.5	171
38	Optimization of preparation conditions of sugarcane bagasse activated carbon via microwave-induced KOH activation for stabilized landfill leachate remediation. Environmental Earth Sciences, 2016, 75, 1.	2.7	18
39	Simultaneous Removal of Organic and Inorganic Pollutants From Landfill Leachate Using Sea Mango Derived Activated Carbon via Microwave Induced Activation. International Journal of Chemical Reactor Engineering, 2016, 14, 991-1001.	1.1	13
40	Recent Advancements, Fundamental Challenges, and Opportunities in Catalytic Methanation of CO <sub>2</sub> . Energy & Fuels, 2016, 30, 8815-8831.	5.1	315
41	Bioelectrochemical system for landfill leachate treatment – challenges, opportunities, and recommendations. Geosystem Engineering, 2016, 19, 337-345.	1.4	7
42	System analysis for synthesis gas (syngas) production in Pakistan from municipal solid waste gasification using a circulating fluidized bed gasifier. Renewable and Sustainable Energy Reviews, 2016, 60, 1302-1311.	16.4	69
43	An insight into the remediation of highly contaminated landfill leachate using sea mango based activated bio-char: optimization, isothermal and kinetic studies. Desalination and Water Treatment, 2016, 57, 22244-22257.	1.0	45
44	Anaerobic stabilized landfill leachate treatment using chemically activated sugarcane bagasse activated carbon: kinetic and equilibrium study. Desalination and Water Treatment, 2016, 57, 3916-3927.	1.0	40
45	Biomass-based palm shell activated carbon and palm shell carbon molecular sieve as gas separation adsorbents. Waste Management and Research, 2015, 33, 303-312.	3.9	28
46	Evaluation of Energy Cost Saving and Pollutants Emission Reduction for Solar Water Heater Development in Malaysia. , 2015, , 211-218.		1
47	The competency of various applied strategies in treating tropical municipal landfill leachate. Desalination and Water Treatment, 2015, 54, 2382-2395.	1.0	45
48	Sea Mango Activated Carbon Preparation and Characterization for Dye Removal. Advanced Materials Research, 2015, 1113, 422-427.	0.3	0
49	Process modeling and optimization of biological removal of carbon, nitrogen and phosphorus from hospital wastewater in a continuous feeding & intermittent discharge (CFID) bioreactor. Korean Journal of Chemical Engineering, 2015, 32, 1340-1353.	2.7	36
50	An overview of heavily polluted landfill leachate treatment using food waste as an alternative and renewable source of activated carbon. Chemical Engineering Research and Design, 2015, 98, 309-318.	5.6	86
51	Selective catalytic reduction of nitric oxide over cerium-doped activated carbons. Journal of Environmental Chemical Engineering, 2015, 3, 2502-2513.	6.7	15
52	Stabilized landfill leachate treatment by sugarcane bagasse derived activated carbon for removal of color, COD and NH <sub>3</sub> -N – Optimization of preparation conditions by RSM. Journal of Environmental Chemical Engineering, 2015, 3, 1287-1294.	6.7	79
53	Industrial estate wastewater treatment using single up-flow aerobic/anoxic sludge bed (UAASB) bioreactor: A kinetic evaluation study. Environmental Progress and Sustainable Energy, 2014, 33, 1220-1228.	2.3	5
54	An overview on global warming in Southeast Asia: CO <sub>2</sub> emission status, efforts done, and barriers. Renewable and Sustainable Energy Reviews, 2013, 28, 71-81.	16.4	90

#	ARTICLE	IF	CITATIONS
55	Optimization of coagulation-flocculation treatment on paper-recycling wastewater: Application of response surface methodology. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013, 48, 1573-1582.	1.7	60
56	Effect of biomass concentration and aeration rate on performance of a full-scale industrial estate wastewater treatment plant. <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 1144-1153.	6.7	4
57	A Comparative Study on Performance of Two Aerobic Sequencing Batch Reactors with Flocculated and Granulated Sludge Treating an Industrial Estate Wastewater: Process Analysis and Modeling. <i>International Journal of Engineering, Transactions B: Applications</i> , 2013, 26, 105-116.	0.7	4
58	Simultaneous removal of carbon and nutrients from an industrial estate wastewater in a single up-flow aerobic/anoxic sludge bed (UAASB) bioreactor. <i>Water Research</i> , 2012, 46, 4587-4598.	11.3	49
59	Cerium impregnated palm shell activated carbon (Ce/PSAC) sorbent for simultaneous removal of SO <sub>2</sub> and NO <sub>x</sub> Process study. <i>Chemical Engineering Journal</i> , 2010, 162, 51-57.	12.7	50
60	Selection of best impregnated palm shell activated carbon (PSAC) for simultaneous removal of SO <sub>2</sub> and NO <sub>x</sub> . <i>Journal of Hazardous Materials</i> , 2010, 176, 1093-1096.	12.4	122
61	Adsorption isotherm models and properties of SO <sub>2</sub> and NO removal by palm shell activated carbon supported with cerium (Ce/PSAC). <i>Chemical Engineering Journal</i> , 2010, 162, 194-200.	12.7	44
62	SO <sub>2</sub> and NO Simultaneous Removal from Simulated Flue Gas over Cerium-Supported Palm Shell Activated at Lower Temperatures Role of Cerium on NO Removal. <i>Energy &amp; Fuels</i> , 2010, 24, 427-431.	5.1	26
63	Performance of Palm Shell Activated Carbon Impregnated with CeO <sub>2</sub> and V <sub>2</sub> O <sub>5</sub> Catalyst in Simultaneous Removal of SO <sub>2</sub> and NO. <i>Journal of Applied Sciences</i> , 2010, 10, 1052-1059.	0.3	13
64	Performance of an activated carbon made from waste palm shell in simultaneous adsorption of SO <sub>x</sub> and NO <sub>x</sub> of flue gas at low temperature. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 198-203.	0.9	22
65	Optimization of microporous palm shell activated carbon production for flue gas desulphurization: Experimental and statistical studies. <i>Bioresource Technology</i> , 2009, 100, 1614-1621.	9.6	72
66	Utilization of oil palm as a source of renewable energy in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2008, 12, 2404-2421.	16.4	456
67	Coagulation of residue oil and suspended solid in palm oil mill effluent by chitosan, alum and PAC. <i>Chemical Engineering Journal</i> , 2006, 118, 99-105.	12.7	289
68	Residual oil and suspended solid removal using natural adsorbents chitosan, bentonite and activated carbon: A comparative study. <i>Chemical Engineering Journal</i> , 2005, 108, 179-185.	12.7	177
69	Adsorption of residual oil from palm oil mill effluent using rubber powder. <i>Brazilian Journal of Chemical Engineering</i> , 2005, 22, 371-379.	1.3	71
70	Adsorption of residue oil from palm oil mill effluent using powder and flake chitosan: Equilibrium and kinetic studies. <i>Water Research</i> , 2005, 39, 2483-2494.	11.3	206
71	Chitosan: A Natural Biopolymer for the Adsorption of Residue Oil from Oily Wastewater. <i>Adsorption Science and Technology</i> , 2004, 22, 75-88.	3.2	40
72	Effect of Microwave Heating Variables on Nitrogen-Enriched Palm Shell Activated Carbon toward Efficient Hydrogen Sulfide Removal. <i>Solid State Phenomena</i> , 0, 280, 315-322.	0.3	4

#	ARTICLE	IF	CITATIONS
73	Hydrogen Gas Production Using Aluminum Waste Cans Powder Produced by Disintegration Method. Key Engineering Materials, 0, 853, 228-234.	0.4	4
74	Treatment of tropical stabilized landfill leachate using palm oil fuel ash: isothermal and kinetic studies. , 0, 144, 201-210.		9