

# Sukumar Devotta

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

3,627  
citations

159525

30  
h-index

133188

59  
g-index

73  
all docs

73  
docs citations

73  
times ranked

4604  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical hydrides: A solution to high capacity hydrogen storage and supply. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 360-365.	3.8	350
2	Assessment of the status of municipal solid waste management in metro cities, state capitals, class I cities, and class II towns in India: An insight. <i>Waste Management</i> , 2009, 29, 883-895.	3.7	346
3	Biosurfactant technology for remediation of cadmium and lead contaminated soils. <i>Chemosphere</i> , 2007, 68, 1996-2002.	4.2	251
4	Defluoridation of drinking water using chitin, chitosan and lanthanum-modified chitosan. <i>Chemical Engineering Journal</i> , 2007, 129, 173-180.	6.6	204
5	Monoethanol Amine Modified Zeolite 13X for CO <sub>2</sub> Adsorption at Different Temperatures. <i>Energy &amp; Fuels</i> , 2007, 21, 3555-3559.	2.5	194
6	Health risks of NO <sub>2</sub> , SPM and SO <sub>2</sub> in Delhi (India). <i>Atmospheric Environment</i> , 2005, 39, 6868-6874.	1.9	148
7	Surfactant-Modified Zeolite as a Slow Release Fertilizer for Phosphorus. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 4773-4779.	2.4	147
8	Qualitative assessment of methane emission inventory from municipal solid waste disposal sites: a case study. <i>Atmospheric Environment</i> , 2004, 38, 4921-4929.	1.9	123
9	Hydrated cement: A promising adsorbent for the removal of fluoride from aqueous solution. <i>Journal of Hazardous Materials</i> , 2008, 154, 88-95.	6.5	107
10	Production and Recovery of Lactic Acid for Polylactide—An Overview. <i>Critical Reviews in Environmental Science and Technology</i> , 2005, 35, 429-467.	6.6	102
11	Adsorption of cationic dyes on Jalshakti®, super absorbent polymer and photocatalytic regeneration of the adsorbent. <i>Reactive and Functional Polymers</i> , 2007, 67, 540-548.	2.0	100
12	Flue Gas Desulfurization: Physicochemical and Biotechnological Approaches. <i>Critical Reviews in Environmental Science and Technology</i> , 2005, 35, 571-622.	6.6	90
13	Study of speciation of metals in an industrial sludge and evaluation of metal chelators for their removal. <i>Journal of Hazardous Materials</i> , 2008, 152, 545-553.	6.5	80
14	Photocatalytic properties of zeolite-based materials for the photoreduction of methyl orange. <i>Applied Catalysis A: General</i> , 2006, 303, 152-157.	2.2	71
15	Defluoridation of water using calcium aluminate material. <i>Chemical Engineering Journal</i> , 2012, 203, 406-414.	6.6	67
16	Solar-based photoreduction of methyl orange using zeolite supported photocatalytic materials. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 180-190.	3.0	65
17	Visible light active zeolite-based photocatalysts for hydrogen evolution from water. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 5958-5966.	3.8	58
18	Air Quality Assessment in Delhi: Before and After CNG as Fuel. <i>Environmental Monitoring and Assessment</i> , 2007, 125, 257-263.	1.3	57

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19	Particle Size Distribution in Ambient Air of Delhi and Its Statistical Analysis. Bulletin of Environmental Contamination and Toxicology, 2010, 85, 22-27.	1.3	57
20	Qualitative evaluation of Kanhan river and its tributaries flowing over central Indian plateau. Environmental Monitoring and Assessment, 2008, 147, 83-92.	1.3	56
21	Simulated and experimental performance of split packaged air conditioner using refrigerant HC-290 as a substitute for HCFC-22. Applied Thermal Engineering, 2014, 62, 277-284.	3.0	54
22	Bleaching powder: A versatile adsorbent for the removal of fluoride from aqueous solution. Desalination, 2009, 243, 22-31.	4.0	49
23	Chemical Composition of Major Ions in Rainwater. Bulletin of Environmental Contamination and Toxicology, 2008, 80, 242-246.	1.3	47
24	GIS-based locational analysis of collection bins in municipal solid waste management systems. Journal of Environmental Engineering and Science, 2008, 7, 39-43.	0.3	44
25	Steady state model for evaluation of external and internal mass transfer effects in an immobilized biofilm. Bioresource Technology, 2008, 99, 3468-3474.	4.8	41
26	Seasonal Variation of Toxic Benzene Emissions in Petroleum Refinery. Environmental Monitoring and Assessment, 2007, 128, 323-328.	1.3	40
27	Source Apportionment of PM10 in Mumbai, India Using CMB Model. Bulletin of Environmental Contamination and Toxicology, 2008, 81, 190-195.	1.3	37
28	Hydrogen evolution by water splitting using novel composite zeolite-based photocatalyst. Catalysis Today, 2007, 129, 428-434.	2.2	34
29	Modified Joback group contribution method for normal boiling point of aliphatic halogenated compounds. Industrial & Engineering Chemistry Research, 1992, 31, 2042-2046.	1.8	32
30	UV and visibly active photocatalysts for water splitting reaction. International Journal of Hydrogen Energy, 2007, 32, 2776-2783.	3.8	32
31	Dioxin formation in pulp and paper mills of India. Environmental Science and Pollution Research, 2007, 14, 225-226.	2.7	32
32	Application of supported perovskite-type catalysts for vehicular emission control. Catalysis Surveys From Asia, 2006, 10, 55-64.	1.0	29
33	Measurement of particulate phase polycyclic aromatic hydrocarbon (PAHs) around a petroleum refinery. Environmental Monitoring and Assessment, 2008, 137, 387-392.	1.3	28
34	Indoor Air Quality of Public Places in Mumbai, India in Terms of Volatile Organic Compounds. Environmental Monitoring and Assessment, 2007, 133, 127-138.	1.3	27
35	Studies on acidification in two-phase biomethanation process of municipal solid waste. Waste Management, 2008, 28, 164-169.	3.7	27
36	Water conservation through implementation of ultrafiltration and reverse osmosis system with recourse to recycling of effluent in textile industry—A case study. Resources, Conservation and Recycling, 2007, 51, 64-77.	5.3	25

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37	Fly ash based zeolite analogues: versatile materials for energy and environment conservation. <i>Catalysis Surveys From Asia</i> , 2006, 10, 74-88.	1.0	24
38	Estimation and allocation of solid waste to bin through geographical information systems. <i>Waste Management and Research</i> , 2005, 23, 479-484.	2.2	22
39	Zirconia supported Ru-Co bimetallic catalysts for diesel soot oxidation. <i>Topics in Catalysis</i> , 2007, 42-43, 273-276.	1.3	22
40	Thermodynamic screening of some HFCs and HFEs for high-temperature heat pumps as alternatives to CFC114. <i>International Journal of Refrigeration</i> , 1994, 17, 338-342.	1.8	19
41	Uncertainty analysis of transport of water and pesticide in an unsaturated layered soil profile using fuzzy set theory. <i>Applied Mathematical Modelling</i> , 2009, 33, 770-782.	2.2	19
42	Statistical Interpretation of Weekday/Weekend Differences of Ambient Particulate Matter, Vehicular Traffic and Meteorological Parameters in an Urban Region of Kolkata, India. <i>Indoor and Built Environment</i> , 2006, 15, 235-245.	1.5	18
43	Simulation of impact of oil spill in the ocean – a case study of Arabian Gulf. <i>Environmental Monitoring and Assessment</i> , 2008, 146, 191-201.	1.3	18
44	Exploitation results of seven RO plants for recovery and reuse of treated effluents in textile industries. <i>Desalination</i> , 2007, 217, 291-300.	4.0	17
45	Catalytic properties of Ru-mordenite for NO reduction. <i>Journal of Molecular Catalysis A</i> , 2007, 261, 213-217.	4.8	17
46	Hazardous Waste Management System in India: An Overview. <i>Critical Reviews in Environmental Science and Technology</i> , 2007, 38, 43-71.	6.6	16
47	Thermally stable metal ruthenate based soot oxidation catalyst for diesel exhaust emission control. <i>Topics in Catalysis</i> , 2007, 42-43, 299-302.	1.3	15
48	High catalytic activity of Pt-Pd containing USY zeolite catalyst for low temperature CO oxidation from industrial off gases. <i>Atmospheric Pollution Research</i> , 2015, 6, 589-595.	1.8	15
49	Integrated Fuel Cell Processor for a 5-kW Proton-Exchange Membrane Fuel Cell. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 1535-1541.	1.8	14
50	Alternative heat pump working fluids to CFCs. <i>Heat Recovery Systems &amp; CHP</i> , 1995, 15, 273-279.	0.4	13
51	Low GWP refrigerants as alternatives to HCFC-22 in room air conditioners. <i>Science and Technology for the Built Environment</i> , 2016, 22, 1128-1135.	0.8	12
52	Monitoring and Assessment of Particulate Matter and Poly Aromatic Hydrocarbons (PAHs) around a Petroleum Refinery. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2007, 79, 197-201.	1.3	11
53	Trends of organochlorine pesticides in drinking water supplies. <i>Environmental Monitoring and Assessment</i> , 2008, 137, 295-299.	1.3	11
54	Prediction of ambient carbon monoxide concentration using nonlinear time series analysis technique. <i>Transportation Research, Part D: Transport and Environment</i> , 2007, 12, 596-600.	3.2	10

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55	Dynamic weighting system for water quality index. <i>Water Science and Technology</i> , 2008, 58, 1261-1271.	1.2	9
56	Modelling of the thermal behaviour of a solar regenerator for open-cycle cooling systems. <i>Applied Energy</i> , 1989, 33, 287-295.	5.1	8
57	Nonlinear Dynamical Characterization and Prediction of Ambient Nitrogen Dioxide Concentration. <i>Water, Air, and Soil Pollution</i> , 2005, 166, 121-138.	1.1	8
58	Locating air quality monitoring station using wind impact area diagram. <i>Environmental Monitoring and Assessment</i> , 2008, 145, 113-118.	1.3	8
59	Performance study for anaerobic digestion of municipal solid waste in a single phase reactor. <i>International Journal of Environment and Pollution</i> , 2010, 43, 16.	0.2	8
60	Challenges in recovery and recycling of refrigerants from Indian refrigeration and air-conditioning service sector. <i>Atmospheric Environment</i> , 2004, 38, 845-854.	1.9	7
61	Anaerobic digestion of vegetable market waste in India. <i>World Review of Science, Technology and Sustainable Development</i> , 2010, 7, 217.	0.3	5
62	Evaluation of Monitoring Sites for Protection of Groundwater in an Urban Area. <i>Water Environment Research</i> , 2008, 80, 2157-2164.	1.3	4
63	Factor Analysis for Estimating Source Contribution to Ambient Airborne Particles in and Around a Petroleum Refinery in India. <i>Indian Chemical Engineer</i> , 2012, 54, 12-21.	0.9	4
64	Prediction of global warming potentials of refrigerants and related compounds from their molecular structure – An artificial neural network with group contribution method. <i>International Journal of Refrigeration</i> , 2021, 131, 756-765.	1.8	4
65	Unified artificial neural network-group contribution method for predictions of normal boiling point and critical temperature of refrigerants and related compounds. <i>International Journal of Refrigeration</i> , 2022, 140, 112-124.	1.8	4
66	Assessment of Environmental Water Demands (EWD) of Forests for Two Distinct Indian Ecosystems. <i>Environmental Management</i> , 2006, 37, 141-152.	1.2	3
67	Catalytic Properties of Strontium Ruthenate Perovskite Prepared by Hot Isostatic Pressure Method. <i>Studies in Surface Science and Catalysis</i> , 2006, 162, 825-831.	1.5	3
68	Development of a Novel Circular Secondary Clarifier for Improving Solids Liquid Separation in Wastewater Treatment. <i>Water Environment Research</i> , 2009, 81, 140-149.	1.3	3
69	Environmental auditing in India: A case study from the wood pulp industry. <i>Environmental Quality Management</i> , 2008, 17, 55-65.	1.0	2
70	A chemo-biological treatment of scrubbing water from power plants with recovery of value-added products. <i>International Journal of Environment and Pollution</i> , 2010, 43, 129.	0.2	2
71	Refrigerant Selection – Global Environment, Thermodynamics, Safety and Efficiency. <i>Indian Chemical Engineer</i> , 2014, 56, 294-312.	0.9	1
72	Identification of air pollutant sampling period using horizontal dilution potential. <i>Environmental Monitoring and Assessment</i> , 2009, 151, 337-343.	1.3	0