

Gopal Achari

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

2,249
citations

257357

24
h-index

265120

42
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all docs

97
docs citations

97
times ranked

2430
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying relations and similarities of the meteorological parameters among the weather stations in the Alberta Oil Sands region. PLoS ONE, 2022, 17, e0261610.	1.1	4
2	Modelling river flow in cold and ungauged regions: a review of the purposes, methods, and challenges. Environmental Reviews, 2022, 30, 159-173.	2.1	11
3	Suitability Assessment of Weather Networks for Wind Data Measurements in the Athabasca Oil Sands Area. Climate, 2022, 10, 10.	1.2	4
4	Aerobic biodegradation of sulfolane using <i>Archaea</i> and <i>Pseudomonas</i> strains. Journal of Chemical Technology and Biotechnology, 2022, 97, 1763-1770.	1.6	2
5	Sulfolane in contaminated sites: environmental toxicity and bioremediation technologies. Environmental Reviews, 2022, 30, 217-227.	2.1	4
6	Removal of Organoselenium from Aqueous Solution by Nanoscale Zerovalent Iron Supported on Granular Activated Carbon. Water (Switzerland), 2022, 14, 987.	1.2	3
7	Visible-Light Driven Photocatalytic Degradation of 4-Chlorophenol Using Graphitic Carbon Nitride-Based Nanocomposites. Catalysts, 2022, 12, 281.	1.6	8
8	A review of mechanistic and data-driven models of aerobic granular sludge. Journal of Environmental Chemical Engineering, 2022, 10, 107500.	3.3	10
9	Application of machine learning techniques to model a full-scale wastewater treatment plant with biological nutrient removal. Journal of Environmental Chemical Engineering, 2022, 10, 107430.	3.3	32
10	Potential human health risks due to environmental exposure to nano- and microplastics and knowledge gaps: A scoping review. Science of the Total Environment, 2021, 757, 143872.	3.9	359
11	Development of an ensemble of machine learning algorithms to model aerobic granular sludge reactors. Water Research, 2021, 189, 116657.	5.3	31
12	Enhancement of LED based photocatalytic degradation of sulfolane by integration with oxidants and nanomaterials. Chemosphere, 2021, 263, 128124.	4.2	17
13	Environmental Impacts of Selenium Contamination: A Review on Current-Issues and Remediation Strategies in an Aqueous System. Water (Switzerland), 2021, 13, 1473.	1.2	25
14	Photocatalytic Degradation of Sulfolane Using a LED-Based Photocatalytic Treatment System. Catalysts, 2021, 11, 624.	1.6	12
15	A laboratory and field investigation of aerobic biodegradation of sulfolane in groundwater. Journal of Chemical Technology and Biotechnology, 2021, 96, 2865-2871.	1.6	2
16	A multicenter study investigating SARS-CoV-2 in tertiary-care hospital wastewater. viral burden correlates with increasing hospitalized cases as well as hospital-associated transmissions and outbreaks. Water Research, 2021, 201, 117369.	5.3	64
17	A review on physiochemical treatment of sulfolane in aqueous media. Journal of Environmental Chemical Engineering, 2021, 9, 105691.	3.3	8
18	Field-scale biopiles for remediation of sulfolane-contaminated soil. Journal of Environmental Engineering and Science, 2021, 16, 130-137.	0.3	6

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19	Application-Scale Parametric Evaluation of Ultraviolet Photolysis (UV) and UV/H ₂ O ₂ for the Degradation of Neutral Pharmaceuticals in Municipal Wastewaters. <i>Journal of Environmental Engineering, ASCE</i> , 2021, 147, .	0.7	5
20	Adsorption by Granular Activated Carbon and Nano Zerovalent Iron from Wastewater: A Study on Removal of Selenomethionine and Selenocysteine. <i>Water (Switzerland)</i> , 2021, 13, 23.	1.2	10
21	Effect of UV dose on degradation of venlafaxine using UV/H ₂ O ₂ : perspective of augmenting UV units in wastewater treatment. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 1107-1116.	1.2	12
22	Removal and recovery of selenium species from wastewater: Adsorption kinetics and co-precipitation mechanisms. <i>Journal of Water Process Engineering</i> , 2020, 38, 101666.	2.6	39
23	Short-Term River Flow Forecasting Framework and Its Application in Cold Climatic Regions. <i>Water (Switzerland)</i> , 2020, 12, 3049.	1.2	8
24	Pilot-Scale Treatment of Neutral Pharmaceuticals in Municipal Wastewater Using Reverse Osmosis and Ozonation. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, 04020121.	0.7	11
25	Predicting River Flow Using an AI-Based Sequential Adaptive Neuro-Fuzzy Inference System. <i>Water (Switzerland)</i> , 2020, 12, 1622.	1.2	21
26	Degradation of pharmaceutical mixtures in aqueous solutions using UV/peracetic acid process: Kinetics, degradation pathways and comparison with UV/H ₂ O ₂ . <i>Chemosphere</i> , 2020, 248, 125911.	4.2	72
27	A Field Pilot Study on Treating Groundwater Contaminated with Sulfolane Using UV/H ₂ O ₂ . <i>Water (Switzerland)</i> , 2020, 12, 1200.	1.2	10
28	Laboratory and Field Investigation of Sulfolane Removal from Water Using Activated Carbon. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, .	0.7	9
29	Field evaluation of a pressurized ozone treatment system to degrade sulfolane in contaminated groundwaters. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104037.	3.3	11
30	Integration of aerobic granulation and UV/H ₂ O ₂ processes in a continuous flow system for the degradation of sulfolane in contaminated water. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1711-1722.	1.2	8
31	Synergetic photocatalytic ozonation using modified graphitic carbon nitride for treatment of emerging contaminants under UVC, UVA and visible irradiation. <i>Chemical Engineering Science</i> , 2019, 209, 115181.	1.9	26
32	Health Impact Assessment of Sulfolane on Embryonic Development of Zebrafish (<i>Danio rerio</i>). <i>Toxics</i> , 2019, 7, 42.	1.6	14
33	Degradation of sulfolane in aqueous media by integrating activated sludge and advanced oxidation process. <i>Chemosphere</i> , 2019, 222, 1-8.	4.2	48
34	Comparative Study of Four TiO ₂ -Based Photocatalysts to Degrade 2,4-D in a Semi-Passive System. <i>Water (Switzerland)</i> , 2019, 11, 621.	1.2	7
35	Coaggregation of bacterial communities in aerobic granulation and its application on the biodegradation of sulfolane. <i>Journal of Hazardous Materials</i> , 2019, 377, 206-214.	6.5	20
36	Passive Solar Photocatalytic Treatment of Emerging Contaminants in Water: A Field Study. <i>Catalysts</i> , 2019, 9, 1045.	1.6	4

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37	Development of Land-Use/Land-Cover Maps Using Landsat-8 and MODIS Data, and Their Integration for Hydro-Ecological Applications. <i>Sensors</i> , 2019, 19, 4891.	2.1	26
38	Advanced Oxidation Based Treatment of Soil Wash Water Contaminated with Sulfolane. <i>Water (Switzerland)</i> , 2019, 11, 2152.	1.2	9
39	The influence of biochar and compost mixtures, water content, and gas flow rate, on the continuous adsorption of methane in a fixed bed column. <i>Journal of Environmental Management</i> , 2019, 233, 175-183.	3.8	11
40	Influence of UV dose on the UV/H ₂ O ₂ process for the degradation of carbamazepine in wastewater. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 3031-3039.	1.2	8
41	Mineralization of sulfolane in aqueous solutions by Ozone/CaO ₂ and Ozone/CaO with potential for field application. <i>Chemosphere</i> , 2018, 197, 535-540.	4.2	38
42	Design and Evaluation of a Novel Light-Emitting Diode Photocatalytic Reactor for Water Treatment. <i>Journal of Environmental Engineering, ASCE</i> , 2018, 144, 04018014.	0.7	8
43	Degradation of Carbamazepine by Photo-assisted Ozonation: Influence of Wavelength and Intensity of Radiation. <i>Ozone: Science and Engineering</i> , 2018, 40, 113-121.	1.4	16
44	Impact of support characteristics and preparation method on photocatalytic activity of TiO ₂ /ZSM-5/silica gel composite photocatalyst. <i>Royal Society Open Science</i> , 2018, 5, 180918.	1.1	21
45	Biofiltration of methane using hybrid mixtures of biochar, lava rock and compost. <i>Environmental Pollution</i> , 2018, 241, 45-54.	3.7	28
46	Biofiltration of methane. <i>Bioresource Technology</i> , 2018, 268, 759-772.	4.8	49
47	Investigation of Biologically Stable Biofilter Medium for Methane Mitigation by Methanotrophic Bacteria. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2018, 22, 04018013.	1.2	6
48	Sunlight mediated passive wastewater treatment technology using photochemical reduction of ferric iron for decontamination of various aqueous contaminants. <i>Solar Energy</i> , 2018, 173, 470-477.	2.9	11
49	Facile synthesis of NiS ₂ nanoparticles ingrained in a sulfur-doped carbon nitride framework with enhanced visible light photocatalytic activity: two functional roles of thiourea. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13448-13466.	5.2	65
50	Performance management of small water treatment plant operations: a decision support system. <i>Water and Environment Journal</i> , 2017, 31, 330-344.	1.0	11
51	Degradation of sulfolane using activated persulfate with UV and UV-Ozone. <i>Water Research</i> , 2017, 125, 325-331.	5.3	69
52	Use of Bathymetric and LiDAR Data in Generating Digital Elevation Model over the Lower Athabasca River Watershed in Alberta, Canada. <i>Water (Switzerland)</i> , 2017, 9, 19.	1.2	10
53	Degradation of Bisphenol S Using O ₃ and/or H ₂ O ₂ with UV in a Flow-Through Reactor. <i>Journal of Environmental Engineering, ASCE</i> , 2016, 142, .	0.7	13
54	Application of UV based advanced oxidation to treat sulfolane in an aqueous medium. <i>Chemosphere</i> , 2016, 160, 155-161.	4.2	29

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55	Abandoned oil and gas well site environmental risk estimation. Toxicological and Environmental Chemistry, 2016, , 1-23.	0.6	3
56	Oil- and Gas-Wellsite-Reclamation-Liability Estimation. SPE Economics and Management, 2016, 8, 097-107.	0.8	3
57	Design and evaluation of a UV LED Photocatalytic Reactor Using Anodized TiO ₂ Nanotubes. Water Environment Research, 2016, 88, 785-791.	1.3	12
58	Photocatalytic ozonation of pesticides in a fixed bed flow through UVA-LED photoreactor. Environmental Science and Pollution Research, 2016, 23, 21313-21318.	2.7	19
59	Cost Recovery and Affordability in Small Drinking Water Treatment Plants in Alberta, Canada. Journal - American Water Works Association, 2016, 108, E290-E298.	0.2	11
60	Mineralisation of sulfolane by UV/O ₃ /H ₂ O ₂ in a tubular reactor. Journal of Environmental Engineering and Science, 2016, 11, 44-51.	0.3	16
61	Efficacy of UV-C photolysis of bisphenol A on transcriptome alterations of genes in zebrafish embryos. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2016, 51, 877-883.	0.9	3
62	A well site reclamation prioritisation model framework. Journal of Environmental Engineering and Science, 2015, 10, 62-72.	0.3	2
63	Advanced oxidative degradation of bisphenol A and bisphenol S. Journal of Environmental Engineering and Science, 2015, 10, 92-102.	0.3	21
64	Development of Remote Sensing Based Models for Surface Water Quality. Clean - Soil, Air, Water, 2014, 42, 1044-1051.	0.7	8
65	Photocatalytic degradation of agricultural antibiotics using a UV-LED light source. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2014, 49, 35-40.	0.7	19
66	Cr(VI) removal from aqueous solutions by hydrothermal synthetic layered double hydroxides: Adsorption performance, coexisting anions and regeneration studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 457, 33-40.	2.3	127
67	Some Observations on the Development of Superior Photocatalytic Systems for Application to Water Purification by the "Adsorb and Shuttle" or the Interphase Charge Transfer Mechanisms. Molecules, 2014, 19, 19557-19572.	1.7	12
68	Design of a homogeneous radiation field in an LED photo-reactor. Journal of Environmental Engineering and Science, 2014, 9, 214-223.	0.3	3
69	Cost scenarios for small drinking water treatment technologies. Desalination and Water Treatment, 2013, 51, 3628-3638.	1.0	11
70	Electron transfer sensitized photodechlorination of surfactant solubilized PCB 138. Chemosphere, 2013, 90, 2347-2351.	4.2	5
71	Application of Photocatalysts and LED Light Sources in Drinking Water Treatment. Catalysts, 2013, 3, 726-743.	1.6	47
72	Machine learning approaches to predict coagulant dosage in water treatment plants. International Journal of Systems Assurance Engineering and Management, 2013, 4, 205-214.	1.5	16

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73	LED-Based Photocatalytic Treatment of Pesticides and Chlorophenols. Journal of Environmental Engineering, ASCE, 2013, 139, 1146-1151.	0.7	40
74	Extraction of PCBs from Transformer Oil and Its Dechlorination Using Visible Light. Journal of Environmental Engineering, ASCE, 2013, 139, 627-632.	0.7	1
75	Dechlorination of polychlorinated biphenyls in transformer oil using UV and visible light. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2013, 48, 92-98.	0.9	3
76	Protocols for the analysis of transformer oil and its degradation in soil by hydrogen peroxide. Journal of Environmental Engineering and Science, 2013, 8, 371-381.	0.3	1
77	An Alternative Process to Treat Boiler Feed Water for Reuse. Water Environment Research, 2012, 84, 725-732.	1.3	2
78	An integrated performance assessment framework for water treatment plants. Water Research, 2012, 46, 1673-1683.	5.3	46
79	Reductive Dechlorination of PCBs Using Photocatalyzed UV Light. Clean - Soil, Air, Water, 2012, 40, 455-460.	0.7	11
80	An integrated health risk assessment of contaminated sites under aleatory and epistemic uncertainties. International Journal of Risk Assessment and Management, 2011, 15, 4.	0.2	1
81	A Methodology for Clustering Lakes in Alberta on the basis of Water Quality Parameters. Clean - Soil, Air, Water, 2011, 39, 916-924.	0.7	16
82	A Comprehensive Numerical Model Simulating Gas, Heat, and Moisture Transport in Sanitary Landfills and Methane Oxidation in Final Covers. Environmental Modeling and Assessment, 2010, 15, 397-410.	1.2	34
83	Incorporating linguistic, probabilistic, and possibilistic information in a risk-based approach for ranking contaminated sites. Integrated Environmental Assessment and Management, 2010, 6, 711-724.	1.6	7
84	Photocatalytic dechlorination of PCB 138 using leuco-methylene blue and visible light; reaction conditions and mechanisms. Journal of Hazardous Materials, 2010, 181, 393-398.	6.5	23
85	Practical Method to Extract and Dechlorinate PCBs in Soils. Practice Periodical of Hazardous, Toxic and Radioactive Waste Management, 2010, 14, 98-103.	0.4	7
86	Photocatalytic Dechlorination of Polychlorinated Biphenyls Using Leuco-methylene Blue Sensitization, Broad Spectrum Visible Lamps, or Light Emitting Diodes. Environmental Science & Technology, 2010, 44, 9075-9079.	4.6	11
87	Uncertainty propagation in environmental decision making using random sets. Procedia Environmental Sciences, 2010, 2, 576-584.	1.3	17
88	Fuzzy-stochastic characterization of site uncertainty and variability in groundwater flow and contaminant transport through a heterogeneous aquifer. Journal of Contaminant Hydrology, 2009, 106, 73-82.	1.6	34
89	A comparison of numerical solutions of partial differential equations with probabilistic and possibilistic parameters for the quantification of uncertainty in subsurface solute transport. Journal of Contaminant Hydrology, 2009, 110, 45-59.	1.6	7
90	A Comparative Approach for Ranking Contaminated Sites Based on the Risk Assessment Paradigm Using Fuzzy PROMETHEE. Environmental Management, 2009, 44, 952-967.	1.2	90

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91	A comparison of several nanoscale photocatalysts in the degradation of a common pollutant using LEDs and conventional UV light. <i>Water Research</i> , 2009, 43, 4499-4506.	5.3	56
92	Characterization of an LED Based Photoreactor to Degrade 4-Chlorophenol in an Aqueous Medium Using Coumarin (C-343) Sensitized TiO ₂ . <i>Journal of Physical Chemistry A</i> , 2008, 112, 10310-10314.	1.1	56
93	The pathway of dechlorination of PCB congener by a photochemical chain process in 2-propanol: The role of medium and quenching. <i>Chemosphere</i> , 2008, 73, 1328-1334.	4.2	18
94	Photodechlorination of Aroclor 1254 in a Pilot-Scale Flow through Photoreactor. <i>Journal of Environmental Engineering, ASCE</i> , 2007, 133, 646-654.	0.7	11
95	Application of Fuzzy Logic to Estimate Flow of Methane for Energy Generation at a Sanitary Landfill. <i>Journal of Energy Engineering - ASCE</i> , 2007, 133, 212-223.	1.0	9
96	A model to estimate the methane generation rate constant in sanitary landfills using fuzzy synthetic evaluation. <i>Waste Management and Research</i> , 2006, 24, 363-375.	2.2	43