

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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97
all docs

97
docs citations

97
times ranked

2430
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential human health risks due to environmental exposure to nano- and microplastics and knowledge gaps: A scoping review. <i>Science of the Total Environment</i> , 2021, 757, 143872.	3.9	359
2	Cr(VI) removal from aqueous solutions by hydrothermal synthetic layered double hydroxides: Adsorption performance, coexisting anions and regeneration studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 457, 33-40.	2.3	127
3	A Comparative Approach for Ranking Contaminated Sites Based on the Risk Assessment Paradigm Using Fuzzy PROMETHEE. <i>Environmental Management</i> , 2009, 44, 952-967.	1.2	90
4	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
5	Degradation of sulfolane using activated persulfate with UV and UV-Ozone. <i>Water Research</i> , 2017, 125, 325-331.	5.3	69
6	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
7	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. <i>Water Research</i> , 2021, 201, 117369.	5.3	64
8	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
9	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
10	Biofiltration of methane. <i>Bioresource Technology</i> , 2018, 268, 759-772.	4.8	49
11	Degradation of sulfolane in aqueous media by integrating activated sludge and advanced oxidation process. <i>Chemosphere</i> , 2019, 222, 1-8.	4.2	48
12	Application of Photocatalysts and LED Light Sources in Drinking Water Treatment. <i>Catalysts</i> , 2013, 3, 726-743.	1.6	47
13	An integrated performance assessment framework for water treatment plants. <i>Water Research</i> , 2012, 46, 1673-1683.	5.3	46
14	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
15	LED-Based Photocatalytic Treatment of Pesticides and Chlorophenols. <i>Journal of Environmental Engineering, ASCE</i> , 2013, 139, 1146-1151.	0.7	40
16	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
17	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
18	Fuzzy-stochastic characterization of site uncertainty and variability in groundwater flow and contaminant transport through a heterogeneous aquifer. <i>Journal of Contaminant Hydrology</i> , 2009, 106, 73-82.	1.6	34

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19	A Comprehensive Numerical Model Simulating Gas, Heat, and Moisture Transport in Sanitary Landfills and Methane Oxidation in Final Covers. <i>Environmental Modeling and Assessment</i> , 2010, 15, 397-410.	1.2	34
20	Application of machine learning techniques to model a full-scale wastewater treatment plant with biological nutrient removal. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107430.	3.3	32
21	Development of an ensemble of machine learning algorithms to model aerobic granular sludge reactors. <i>Water Research</i> , 2021, 189, 116657.	5.3	31
22	Application of UV based advanced oxidation to treat sulfolane in an aqueous medium. <i>Chemosphere</i> , 2016, 160, 155-161.	4.2	29
23	Biofiltration of methane using hybrid mixtures of biochar, lava rock and compost. <i>Environmental Pollution</i> , 2018, 241, 45-54.	3.7	28
24	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
25	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
26	Environmental Impacts of Selenium Contamination: A Review on Current-Issues and Remediation Strategies in an Aqueous System. <i>Water (Switzerland)</i> , 2021, 13, 1473.	1.2	25
27	Photocatalytic dechlorination of PCB 138 using leuco-methylene blue and visible light; reaction conditions and mechanisms. <i>Journal of Hazardous Materials</i> , 2010, 181, 393-398.	6.5	23
28	Advanced oxidative degradation of bisphenol A and bisphenol S. <i>Journal of Environmental Engineering and Science</i> , 2015, 10, 92-102.	0.3	21
29	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
30	Predicting River Flow Using an AI-Based Sequential Adaptive Neuro-Fuzzy Inference System. <i>Water (Switzerland)</i> , 2020, 12, 1622.	1.2	21
31	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
32	Photocatalytic degradation of agricultural antibiotics using a UV-LED light source. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2014, 49, 35-40.	0.7	19
33	Photocatalytic ozonation of pesticides in a fixed bed flow through UVA-LED photoreactor. <i>Environmental Science and Pollution Research</i> , 2016, 23, 21313-21318.	2.7	19
34	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
35	Uncertainty propagation in environmental decision making using random sets. <i>Procedia Environmental Sciences</i> , 2010, 2, 576-584.	1.3	17
36	Enhancement of LED based photocatalytic degradation of sulfolane by integration with oxidants and nanomaterials. <i>Chemosphere</i> , 2021, 263, 128124.	4.2	17

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37	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
38	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
39	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
40	Degradation of Carbamazepine by Photo-assisted Ozonation: Influence of Wavelength and Intensity of Radiation. Ozone: Science and Engineering, 2018, 40, 113-121.	1.4	16
41	Health Impact Assessment of Sulfolane on Embryonic Development of Zebrafish (Danio rerio). Toxics, 2019, 7, 42.	1.6	14
42	Degradation of Bisphenol S Using O ₃ and/or H ₂ O ₂ with UV in a Flow-Through Reactor. Journal of Environmental Engineering, ASCE, 2016, 142, .	0.7	13
43	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
44	Design and evaluation of a UV LED Photocatalytic Reactor Using Anodized TiO ₂ Nanotubes. Water Environment Research, 2016, 88, 785-791.	1.3	12
45	Effect of UV dose on degradation of venlafaxine using UV/H ₂ O ₂ : perspective of augmenting UV units in wastewater treatment. Environmental Technology (United Kingdom), 2020, 41, 1107-1116.	1.2	12
46	Photocatalytic Degradation of Sulfolane Using a LED-Based Photocatalytic Treatment System. Catalysts, 2021, 11, 624.	1.6	12
47	Photodechlorination of Aroclor 1254 in a Pilot-Scale Flow through Photoreactor. Journal of Environmental Engineering, ASCE, 2007, 133, 646-654.	0.7	11
48	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
49	Reductive Dechlorination of PCBs Using Photocatalyzed UV Light. Clean - Soil, Air, Water, 2012, 40, 455-460.	0.7	11
50	Cost scenarios for small drinking water treatment technologies. Desalination and Water Treatment, 2013, 51, 3628-3638.	1.0	11
51	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
52	Performance management of small water treatment plant operations: a decision support system. Water and Environment Journal, 2017, 31, 330-344.	1.0	11
53	Sunlight mediated passive wastewater treatment technology using photochemical reduction of ferric iron for decontamination of various aqueous contaminants. Solar Energy, 2018, 173, 470-477.	2.9	11
54	The influence of biochar and compost mixtures, water content, and gas flow rate, on the continuous adsorption of methane in a fixed bed column. Journal of Environmental Management, 2019, 233, 175-183.	3.8	11

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55	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
56	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
57	Modelling river flow in cold and ungauged regions: a review of the purposes, methods, and challenges. <i>Environmental Reviews</i> , 2022, 30, 159-173.	2.1	11
58	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
59	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
60	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
61	A review of mechanistic and data-driven models of aerobic granular sludge. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107500.	3.3	10
62	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
63	Advanced Oxidation Based Treatment of Soil Wash Water Contaminated with Sulfolane. <i>Water (Switzerland)</i> , 2019, 11, 2152.	1.2	9
64	Laboratory and Field Investigation of Sulfolane Removal from Water Using Activated Carbon. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, .	0.7	9
65	Development of Remote Sensing Based Models for Surface Water Quality. <i>Clean - Soil, Air, Water</i> , 2014, 42, 1044-1051.	0.7	8
66	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
67	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
68	Short-Term River Flow Forecasting Framework and Its Application in Cold Climatic Regions. <i>Water (Switzerland)</i> , 2020, 12, 3049.	1.2	8
69	A review on physiochemical treatment of sulfolane in aqueous media. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105691.	3.3	8
70	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
71	Visible-Light Driven Photocatalytic Degradation of 4-Chlorophenol Using Graphitic Carbon Nitride-Based Nanocomposites. <i>Catalysts</i> , 2022, 12, 281.	1.6	8
72	A comparison of numerical solutions of partial differential equations with probabilistic and possibilistic parameters for the quantification of uncertainty in subsurface solute transport. <i>Journal of Contaminant Hydrology</i> , 2009, 110, 45-59.	1.6	7

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73	Incorporating linguistic, probabilistic, and possibilistic information in a risk-based approach for ranking contaminated sites. <i>Integrated Environmental Assessment and Management</i> , 2010, 6, 711-724.	1.6	7
74	Practical Method to Extract and Dechlorinate PCBs in Soils. <i>Practice Periodical of Hazardous, Toxic and Radioactive Waste Management</i> , 2010, 14, 98-103.	0.4	7
75	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
76	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
77	Field-scale biopiles for remediation of sulfolane-contaminated soil. <i>Journal of Environmental Engineering and Science</i> , 2021, 16, 130-137.	0.3	6
78	Electron transfer sensitized photodechlorination of surfactant solubilized PCB 138. <i>Chemosphere</i> , 2013, 90, 2347-2351.	4.2	5
79	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
80	Passive Solar Photocatalytic Treatment of Emerging Contaminants in Water: A Field Study. <i>Catalysts</i> , 2019, 9, 1045.	1.6	4
81	Quantifying relations and similarities of the meteorological parameters among the weather stations in the Alberta Oil Sands region. <i>PLoS ONE</i> , 2022, 17, e0261610.	1.1	4
82	Suitability Assessment of Weather Networks for Wind Data Measurements in the Athabasca Oil Sands Area. <i>Climate</i> , 2022, 10, 10.	1.2	4
83	Sulfolane in contaminated sites: environmental toxicity and bioremediation technologies. <i>Environmental Reviews</i> , 2022, 30, 217-227.	2.1	4
84	Dechlorination of polychlorinated biphenyls in transformer oil using UV and visible light. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013, 48, 92-98.	0.9	3
85	Design of a homogeneous radiation field in an LED photo-reactor. <i>Journal of Environmental Engineering and Science</i> , 2014, 9, 214-223.	0.3	3
86	Abandoned oil and gas well site environmental risk estimation. <i>Toxicological and Environmental Chemistry</i> , 2016, , 1-23.	0.6	3
87	Oil- and Gas-Well-site-Reclamation-Liability Estimation. <i>SPE Economics and Management</i> , 2016, 8, 097-107.	0.8	3
88	Efficacy of UV-C photolysis of bisphenol A on transcriptome alterations of genes in zebrafish embryos. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2016, 51, 877-883.	0.9	3
89	Removal of Organoselenium from Aqueous Solution by Nanoscale Zerovalent Iron Supported on Granular Activated Carbon. <i>Water (Switzerland)</i> , 2022, 14, 987.	1.2	3
90	An Alternative Process to Treat Boiler Feed Water for Reuse. <i>Water Environment Research</i> , 2012, 84, 725-732.	1.3	2

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91	A well site reclamation prioritisation model framework. Journal of Environmental Engineering and Science, 2015, 10, 62-72.	0.3	2
92	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
93	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
94	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
95	Extraction of PCBs from Transformer Oil and Its Dechlorination Using Visible Light. Journal of Environmental Engineering, ASCE, 2013, 139, 627-632.	0.7	1
96	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