

Mohamed N A Meshref

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

465
citations

686830

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887659

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17
docs citations

17
times ranked

472
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Composite polyvinylidene fluoride (PVDF) membrane impregnated with Fe ₂ O ₃ nanoparticles and multiwalled carbon nanotubes for catalytic degradation of organic contaminants. <i>Journal of Membrane Science</i> , 2015, 490, 227-235. | 4.1 | 89 |
| 2 | Characterization and determination of naphthenic acids species in oil sands process-affected water and groundwater from oil sands development area of Alberta, Canada. <i>Water Research</i> , 2018, 128, 129-137. | 5.3 | 52 |
| 3 | Comparison of methods for determination of total oil sands-derived naphthenic acids in water samples. <i>Chemosphere</i> , 2017, 187, 376-384. | 4.2 | 44 |
| 4 | Microbial electrochemical systems for hydrogen peroxide synthesis: Critical review of process optimization, prospective environmental applications, and challenges. <i>Bioresource Technology</i> , 2020, 313, 123727. | 4.8 | 44 |
| 5 | Optimization of thermal hydrolysis process for enhancing anaerobic digestion in a wastewater treatment plant with existing primary sludge fermentation. <i>Bioresource Technology</i> , 2021, 321, 124498. | 4.8 | 41 |
| 6 | Fate and abundance of classical and heteroatomic naphthenic acid species after advanced oxidation processes: Insights and indicators of transformation and degradation. <i>Water Research</i> , 2017, 125, 62-71. | 5.3 | 31 |
| 7 | Understanding the similarities and differences between ozone and peroxone in the degradation of naphthenic acids: Comparative performance for potential treatment. <i>Chemosphere</i> , 2017, 180, 149-159. | 4.2 | 27 |
| 8 | A review and roadmap for developing microbial electrochemical cell-based biosensors for recalcitrant environmental contaminants, emphasis on aromatic compounds. <i>Chemical Engineering Journal</i> , 2021, 424, 130245. | 6.6 | 23 |
| 9 | Monitoring of classical, oxidized, and heteroatomic naphthenic acids species in oil sands process water and groundwater from the active oil sands operation area. <i>Science of the Total Environment</i> , 2018, 645, 277-285. | 3.9 | 22 |
| 10 | Low-temperature thermal hydrolysis for anaerobic digestion facility in wastewater treatment plant with primary sludge fermentation. <i>Chemical Engineering Journal</i> , 2021, 426, 130485. | 6.6 | 21 |
| 11 | Powdered activated carbon amendment in percolate tank enhances high-solids anaerobic digestion of organic fraction of municipal solid waste. <i>Chemical Engineering Research and Design</i> , 2021, 151, 63-70. | 2.7 | 17 |
| 12 | Microbial electrochemical biosensor for rapid detection of naphthenic acid in aqueous solution. <i>Journal of Electroanalytical Chemistry</i> , 2020, 873, 114405. | 1.9 | 15 |
| 13 | Fourier transform infrared spectroscopy as a surrogate tool for the quantification of naphthenic acids in oil sands process water and groundwater. <i>Science of the Total Environment</i> , 2020, 734, 139191. | 3.9 | 15 |
| 14 | Adsorption of Phenol onto Aluminum Oxide Nanoparticles: Performance Evaluation, Mechanism Exploration, and Principal Component Analysis (PCA) of Thermodynamics. <i>Adsorption Science and Technology</i> , 2022, 2022, . | 1.5 | 7 |
| 15 | Impact of lime treatment on tailings dewatering and cap water quality under an oil sands end pit lake scenario. <i>Science of the Total Environment</i> , 2021, 781, 146699. | 3.9 | 6 |
| 16 | Low-temperature thermal hydrolysis of sludge prior to anaerobic digestion: Principal component analysis (PCA) of experimental data. <i>Data in Brief</i> , 2021, 38, 107323. | 0.5 | 6 |
| 17 | Enhancing quorum sensing in biofilm anode to improve biosensing of naphthenic acids. <i>Biosensors and Bioelectronics</i> , 2022, 210, 114275. | 5.3 | 5 |