PUBLICATIONS IN REFEREED JOURNALS

<u>2021</u>

- Chawley, P., Rana, A., Jagadevan, S^{*}. 2021. Envisioning role of ammonia oxidizing bacteria in bioenergy production and its challenges: A review. *Critical Reviews in Biotechnology*, DOI: 10.1080/07388551.2021.1976099, (Impact factor= 8.429).
- 2. Yadav, K., **Jagadevan**, S^{*}. 2021. Influence of torrefaction and pyrolysis on engineered biochar and its applicability in defluoridation: Insight into adsorption mechanism, batch adsorber design and artificial neural network modelling. *Journal of Analytical and Applied Pyrolysis*, 154(2021)105015 (Impact factor= 5.541).
- 3. Yadav, K., Raphi, M., **Jagadevan, S**^{*}. 2021. Adsorption of Copper(II) on chemically modified biochar: A single-stage batch adsorber design and predictive modelling through artificial neural network. *Biomass Conversion and Biorefinery*, https://doi.org/10.1007/s13399-021-01494-x (Impact factor= 4.987).
- Kumar, N., Banerjee, C., Jagadevan, S. 2021. Identification, characterization, and lipid profiling of microalgae *Scenedesmus* sp. NC1, isolated from coal mine effluent with potential for biofuel production. *Biotechnology Reports*, 30, https://doi.org/10.1016/j.btre.2021.e00621 (Impact factor = 2.010)
- 5. Jain, A., Kumari, N., **Jagadevan, S.**, Bajpai, V. 2021. Surface free energy and bacterial attachment on microtextured Ti6Al4V Alloy. *Journal of Materials Engineering and Performance*, https://doi.org/10.1007/s11665-021-05651-1 (Impact factor = 1.819).

<u>2020</u>

- Kumari, S., Jose, S., Tyagi, M., Jagadevan, S^{*}. 2020. A holistic and sustainable approach for recovery of phosphorus via struvite crystallization from synthetic distillery wastewater. *Journal of Cleaner Production*, 254, DOI: 10.1016/j.jclepro.2020.120037 (IF= 9.297).
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- 4. Tyagi, M., Kumari, N., **Jagadevan**, S^{*}. 2020. A holistic Fenton oxidation-biodegradation system for treatment of phenol from coke oven wastewater: Optimization, toxicity analysis

and phylogenetic analysis. *Journal of Water Process Engineering*, 37, DOI: 10.1016/j.jwpe.2020.101475 (IF= 5.485).

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- Yadav, K., Jagadevan, S^{*}. 2020. Effect of Pyrolysis of Rice Husk–Derived Biochar on the Fuel Characteristics and Adsorption of Fluoride from Aqueous Solution, BioEnergy Research, https://doi.org/10.1007/s12155-020-10189-6 (IF= 2.814).
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- 5. Kumari, S., Tyagi, M., **Jagadevan**, **S**^{*}. 2019. Mechanistic removal of environmental contaminants using biogenic nano-materials. *International Journal of Environmental Science and Technology*. https://doi.org/10.1007/s13762-019-02468-3 (IF= 2.860).

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<u>2014</u>

- Vorobev, A., Jagadevan, S., Jain, S., Anantharaman, K., Dick, G., Vuilleumier, S., Semrau, J.D. 2014. Genomic and transcriptomic analyses of the facultative methanotroph *Methylocystis* sp. Strain SB2 grown on methane or ethanol. *Applied and Environmental Microbiology*. 80 (10), 3044-3052 (IF= 4.792).
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<u>2013</u>

- 1. **Jagadevan, S.,** Graham, N., Thompson, I. 2013. Treatment of waste metalworking fluid by a hybrid ozone-biological process. *Journal of Hazardous Materials*. 244-245, 394-402 (IF= 10.588).
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<u>2012</u>

1. **Jagadevan**, **S**., Jayamurthy, M., Dobson, P., Thompson, I. 2012. "A novel hybrid nano zerovalent iron initiated oxidation-biological degradation approach for remediation of recalcitrant waste metalworking fluids", *Water Research*, 46(7), pp 2395-2404 (IF= 11.236).

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<u>2004</u>

- 1. **Jagadevan**, S., and Mukherji, S. 2004. "Successful in situ oil bioremediation programmes-Key parameters", *Indian Journal of Biotechnology*, Vol 3, pp 495-501 (IF= 0.414).
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- Parmita Chawley and Sheeja Jagadevan, 2021. Interaction effects of nanoparticles with microorganisms employed in the remediation of nitrogen rich wastewater. In: Microbial Interactions at Nanobiotechnology Interfaces: Molecular mechanisms and applications. John Wiley & Sons Inc., DOI: 10.1002/9781119617181.ch7. ISBN: 978-1-119-61717-4.
- 2. Krishna Yadav and **Sheeja Jagadevan**, 2021. Adsorbents for removal of fluoride from water. In: Green Technologies for the Defluoridation of water, Elsevier. (DOI:10.1016/B978-0-323-85768-0.00005-1).
- 3. Parmita Chawley, Krishna Yadav, **Sheeja Jagadevan**, 2021. Nitrogenous wastes and its efficient treatment in wastewater, In: Water Pollution and Management Practices, Springer Singapore, ISBN 978-981-15-8358-2.
- 4. Krishna Yadav and **Sheeja Jagadevan**, 2019, Influence of Process Parameters on Synthesis of Biochar by Pyrolysis of Biomass: An Alternative Source of Energy, In: Recent Advances in Pyrolysis, IntechOpen Limited, London, UK. DOI: 10.5772/intechopen.88204.

Conference Papers

K. Yadav and S. Jagadevan, "Effect of pyrolytic conditions on fuel ratio of rice husk derived biochar: An optimization through response surface methodology", International Conference on Water, Energy and Environmental Sustainability, NIT Durgapur, India held on 13-15 January, 2020.

P. Chawley and S. Jagadevan, "Protein-protein interaction between nitrogen, sulfur and methane metabolism pathways of *Nitrosospira multiformis* – A potential biofuel producing microorganism", RECYCLE 2020, 3rd International Conference on waste management organised by Indian Institute of Technology, Guwahati, India held on 13-14 February, 2020.

S. Kumari and S. Jagadevan, "Wastewater Treatment and Resource Recovery via Struvite Crystallization from high strength industrial wastewater", RECYCLE 2020, 3rd International Conference on waste management organised by Indian Institute of Technology, Guwahati, India held on 13-14 February, 2020.

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K. Yadav, S. Jagadevan, "Optimization of rice-husk derived biochar through response surface methodology for removal of fluoride from groundwater", IBI Biochar World Congress 2019, Korea University, South Korea held on 10-14 November 2019.

Kumari S., Jagadevan S, (2017) "A New Route to recover Phosphorus from Municipal Wastewater through Struvite Crystallization: Possibilities and Limitations". Poster Presentation at 104th Indian Science Congress in S.V. University, Tirupati from January 3-7, 2017

S. Jagadevan, Invited talk, "Zerovalent Iron mediated remediation- An emerging water treatment technology", 33rd Annual Conference, Indian Council of Chemists, 2014.

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