

## PUBLICATIONS

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- (i) **S. Sahani**, T. Roy, Y. C. Sharma. Studies on fast and green biodiesel production from an indigenous non-edible Indian feedstock using single phase strontium titanate catalyst. *Energy Conversion and Management*. 203 (2020) 112180 IF: 7.19.
- (ii) **S. Sahani**, T. Roy, Y. C. Sharma. Clean and efficient production of biodiesel using barium cerate as a heterogeneous catalyst for the Biodiesel production; Kinetics and Thermodynamic study. *Journal of Cleaner Production* 237(2019)117699.IF:6.39.
- (iii) **S. Sahani**, Y. C. Sharma. Economically viable production of biodiesel using a novel heterogeneous catalyst: Kinetic and thermodynamic investigations. *Energy Conversion and Management* 171 (2018) 969.IF:7.19
- (iv) **S. Sahani**, S. Banerjee, Y. C. Sharma. Study of 'co-solvent effect' on production of biodiesel from *Schleichera oleosa* oil using a mixed metal oxide as a potential catalyst. *Journal of the Taiwan Institute of Chemical Engineers* 86 (2018) 42. IF: 3.89.
- (v) **S. Sahani**, Y. C. Sharma. Latest advancements in application of nanotechnology in global food industry. *Trends in Food Science and Technology*, IF: 8.75 (Under review).
- (vi) **S. Sahani**, Y. C. Sharma. Smart waste management of waste cooking oil for large scale high quality biodiesel production using Sr-Ti mixed metal oxide as solid catalyst: optimization and E-metrics studies. *Waste Management* (Under review). 2020, IF: 5.5.
- (vii) T. Roy, **S. Sahani**, Y. C. Sharma. Kinetics-thermodynamics and E-matrix studies of biodiesel production from waste cooking oil and castor oil using K modified ceria oxide catalyst. *Journal of Cleaner Production*, (In press) 119166 IF: 6.39.

## ***Publications***

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- (viii) T. Roy, **S. Sahani**, Y.C. Sharma. Kinetic and thermodynamic Studies of base catalysed green transesterification of *Ricinus communis* oil using potassium promoted lanthanum oxide. Fuel JFUE-D-19-05344 (Accepted) IF: 5.5.
- (ix) T. Roy, **S. Sahani**, Y.C.Sharma. A clean approach of biodiesel production from waste cooking oil by using single phase BaSnO<sub>3</sub> as solid base catalyst: mechanism, kinetics & E-study. Journal of Cleaner Production, (In press) 119166 IF: 6.39.
- (x) S. Banerjee, **S. Sahani**, Y.C. Sharma. Process dynamic investigations and emission analyses of biodiesel produced using Sr–Ce mixed metal oxide heterogeneous catalyst. Journal of Environmental Management. 248(2019)109218 IF: 4.9.
- (xi) D. Madhu, R. Arora, **S. Sahani**, V. Singh, Y.C. Sharma. Synthesis of High-Quality Biodiesel Using Feedstock and Catalyst Derived from Fish wastes. Journal Agriculture Food Chemistry 2017, 65, 2100–2109, IF: 3.26.
- (xii) **S. Sahani**, Y. C. Sharma. Studies on optimization of FAME production from *Madhuca indica* oil using mixed metal oxide as heterogeneous basic catalyst. (In pipeline).

## **Book Chapters**

- (i) Micro and nanoengineered structures and compounds. Shalini Sahani, Sadhna Mishra, Yogesh Chandra Sharma. Springer nature (under review).
- (ii) Fate of encapsulation of herbal extracts: state of arts. Sadhna Mishra, Shalini Sahani, Yogesh Chandra Sharma. (under review)