In this issue

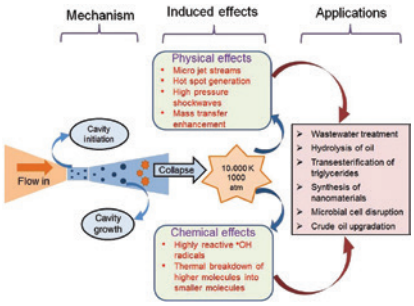
Jitendra Carpenter, Mandar Badve, Sunil Rajoriya, Suja George, Virendra Kumar Saharan and Aniruddha B. Pandit

Hydrodynamic cavitation: an emerging technology for the intensification of various chemical and physical processes in a chemical process industry

DOI 10.1515/revce-2016-0032
Rev Chem Eng 2017; 33(5): 433–468

Review: Mechanism and induced effects of hydrodynamic cavitation.

Keywords: biodiesel synthesis; hydrodynamic cavitation; microbial cell disruption; nanomaterials; wastewater treatment.



Aditi Mullick and Sudarsan Neogi

A review on acoustic methods of algal growth control by ultrasonication through existing and novel emerging technologies

DOI 10.1515/revce-2016-0010
Rev Chem Eng 2017; 33(5): 469–490

Review: The ultrasonic treatment method is reviewed as one of the most effective routes for the disruption of algal structure by mechanical shear force imposed by ultrasonic wave propagation and cell damage by free radical generations during acoustic cavitations to restrict undesirable algal biomass proliferation.

Keywords: algae; cavitation; frequency; ultrasonication; wastewater treatment.