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Process Intensification specialisation explores making industrial processes smaller, cleaner, more energy efficient and more productive by smarter use of technology and smarter integration. It is central to the ongoing transformation and future opportunities of a wide range of established and emerging industries including bulk chemicals, pharmaceuticals, food, agriculture and renewable energy. Process Intensification - The University of Sydney Process intensification (PI) is a rapidly growing field of research and industrial development that has already created many innovations in chemical process industry. PI is directed toward... (PDF) Process intensification - ResearchGate The European Roadmap on Process Intensification describes PI as providing “radically innovative principles (paradigm shift) in process and equipment design, which can benefit (often with more than a factor of two) process and chain efficiency, capital and operating expenses, quality, wastes, process safety and more” (2). Realize the Potential of Process Intensification | AIChE Process intensification (PI) has attracted increasing attention from both industry and academia. PI refers to any chemical engineering development that leads to a substantially smaller, cleaner, safer, and more energy efficient technology. PI may involve multiple process integration, mass and heat transfer enhancement, and process simplification. Process Intensification | AIChE Process intensification is the development of novel equipment and methods that bring dramatic improvements in manufacturing and processing. These techniques substantially decrease equipment-size to production-capacity ratio, energy consumption, or

waste production. This ultimately results in cheaper, sustainable technologies. Process Intensification Systems | Smaller, Cleaner, More ... Algae-to-biodiesel processes are hindered by high costs and low energy return on investment^{1,2}. Herein, three foci in research improve algae-to-biodiesel processes by: (1) reducing high installation ...

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