

السيرة الذاتية



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الدرجة العلمية : استاذ مساعد

البحوث المنشورة:

TITLE	YEAR
1. CO ₂ mass transfer induced through an airlift loop by a microbubble cloud generated by fluidic oscillation <i>Industrial & Engineering Chemistry Research</i> 51 (4), 1864-1877	2011
2. Airlift bioreactor for biological applications with microbubble mediated transport processes <i>Chemical Engineering Science</i> 137, 243-253	2015
3. Enhanced mass transfer in microbubble driven airlift bioreactor for microalgal culture <i>Engineering</i> 5 (9), 735-743	2013
4. Evaporation dynamics of microbubbles <i>Chemical Engineering Science</i> 101, 865-877	2013
5. Carbon dioxide rich microbubble acceleration of biogas production in anaerobic digestion <i>Chemical Engineering Science</i> 156, 24-35	2016
6. Inactivation combined with cell lysis of <i>Pseudomonas putida</i> using a low pressure carbon dioxide microbubble technology <i>Journal of Chemical Technology and Biotechnology</i> 92 (8), 1961-1969	2017
7. Laboratory preparation of simulated sludge for anaerobic digestion experimentation <i>Journal of Engineering</i> 21 (6), 131-145	2015
8. Heat Transfer and Hydrodynamic in Internal Jacket Airlift Bioreactor with Microbubble Technology <i>Iraqi Journal of Chemical and Petroleum Engineering</i> 18 (4), 35-45	2017
9. Evaluating harvesting of <i>Chlorella</i> sp. biomass and chemical composition under the influence of different concentrations of nutrients <i>Current Research in Microbiology and Biotechnology</i> 5 (6), 1375-	2017

TITLE	YEAR
1379	
10. Experimental Study for Commercial Fertilizer NPK (20:20:20+TE N: P: K) in Microalgae Cultivation at Different Aeration Periods <i>Iraqi Journal of Chemical and Petroleum Engineering</i> 18 (1), 99-110	2017
11. <u>Cultivation of Chlorella Vulgaris Using Airlift Photobioreactor Sparged with 5%CO₂-Air as a Biofixing Process</u> <i>Journal of Engineering</i> 23 (4), 22-41.	2017

الاتجاهات البحثية: هندسة كيمياء الاحيائية-معالجة المياه-ظواهر انتقال-طاقة متجددة

