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UNIVERSITE SALAH BOUBNIDER CONSTANTINE 3



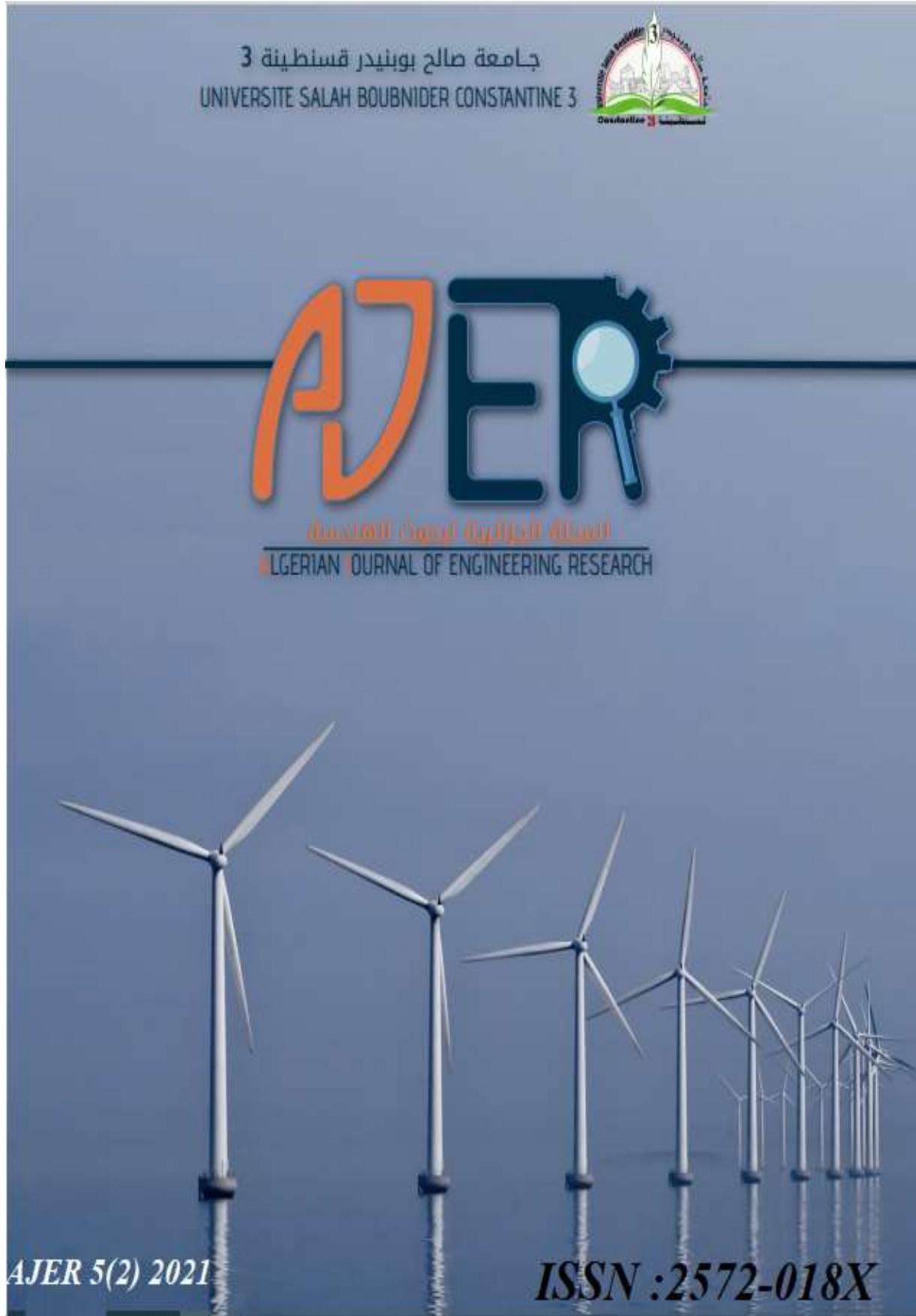
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EDITORIAL

The present AJER-5.2 issue presents five retained papers all concerning process engineering topics.

The first paper concerned the test of a natural material known as cactus, to remove a cationic dye namely methylene blue, taken as a model pollutant and to estimate its performance (Ayat et al).

The second paper aimed to synthesize biofuel from frying wastes collected from university campuses restaurants to produce energy and hence eliminate a pollution source to preserve the environment (Kerras et al).

The third paper considered the determination of the required binary interaction parameters for the NRTL model from ternary liquid-liquid equilibrium data, assessing two different metaheuristic optimization methods like the Genetic Algorithm (GA) and the Particle Swarm Optimization (PSO). This latter showed to be more performing leading to quite reasonable data (Hebboul et al.).

The next paper dealt with the preparation of an activated carbon derived from date stones has a large capacity for adsorption of phenolic compounds in aqueous solutions. The results confirmed that the obtained material was an effective and inexpensive adsorbent (Arris et al).

The fifth and last paper proposed to assess the elimination of catechol, an industrial pollutant, by aluminum sulphate during the process of coagulation-flocculation which can significantly reduce these organic substances despite their dissolved state (Hecini et al)

The Chief Editor would like to thank the secretary Mr Aissa Lamri Zeggar for his permanent contribution and sustained efforts towards the development of this journal.

Prof MENIAI Abdeslam-Hassen

Chief Editor

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