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To: "Ranjib Biswas" <ranjib_biswas@rediffmail.com>

Subject: Invitation to review for Optics and Laser Technology

Date: Sun, 16 Jul 2023 20:17:49 IST

Manuscript Number: JOLT-D-23-01996

Experimental Investigation on a novel hybrid composite developed by laser engineering net shaping: Microstructure, Optimization and Ranking Analysis

SOUTRIK BOSE

Dear Dr Biswas,

I would like to invite you to review the above referenced manuscript submitted by Dr. SOUTRIK BOSE as I believe it falls within your expertise and interest. The abstract for this manuscript is included below

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Receiving Editor

Optics and Laser Technology

Abstract:

Recent developments in composites pilot the growth of advanced composites like titanium matrix composite (TMC) as it possesses excellent properties like lightweight and high-temperature and resistance to corrosion without compromising their strength and hardness. It is used widely in contemporary industries like automobile, biomedical, and aerospace. This manuscript mainly focuses on three goals: the development of a novel material by laser engineering net shaping (LENS), experimental and microstructural analysis, and ranking analysis using a novel optimization algorithm. Laser power (P) and scan speed (V) provide significant contributions when compared to energy input/area (E). The microstructural characterization illustrates a brilliant bonding inside the Ti-matrix. A hybrid mathematical model is proposed for the optimal analysis of laser process parameters to laser performance measures like cooling rate (CR) and hardness (H). The novelty lies in the comparative and ranking analysis of the experimental runs of the laser responses of the developed novel composite by a novel optimization algorithm like desirable grey relational analysis (DGRA). Rank 1 of desirability 0.843 is obtained and contrasted with rank 2 of desirability 0.833 using DGRA with excellent melting. Microstructure provides low surface cracks with an improvement of 0.6% as designated by solo desirability of 0.838. To detect the contributing effects and significance of parameters, ANOVA is incorporated. Improvement in the optimized solution is 12.939% of CR and 0.253% of H.

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