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Salih Durdu, Kemal Korkmaz, Salim Levent Aktuğ, Ali Çakır

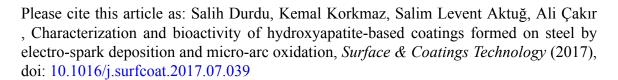
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## CEPTED MANUSCRIPT

## Characterization and bioactivity of hydroxyapatite-based coatings formed on steel by electro-spark deposition and micro-arc oxidation

Salih Durdu<sup>a,\*</sup>, Kemal Korkmaz<sup>b</sup>, Salim Levent Aktuğ<sup>b</sup>, Ali Çakır<sup>b</sup>

\*Corresponding author: Salih Durdu, Ph.D

Affiliation: Giresun University

Address: Giresun University,

The Faculty of Engineering,

Gure Campus, Merkez, Giresun 28200, Turkey

Tel.: +904543104114

E-Mail Addresses: durdusalih@gmail.com; salih.durdu@giresun.edu.tr (Salih Durdu, Ph.D)

korkmazk@gtu.edu.tr (Kemal Korkmaz, Ph.D)

saktug@gtu.edu.tr (Salim Levent Aktuğ, Ph.D)

acakir@gtu.edu.tr (Ali Çakır, MSc.)

E-mail address: <a href="mailto:durdusalih@gmail.com">durdusalih@gmail.com</a> (Salih Durdu)

<sup>&</sup>lt;sup>a</sup> The Department of Industrial Engineering, Giresun University, Giresun 28200, Turkey

<sup>&</sup>lt;sup>b</sup> The Department of Materials Science and Engineering, Gebze Technical University, Gebze, Kocaeli 41400, Turkey

<sup>\*</sup>Corresponding author. Tel: +904543104114 fax: +904543101749

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