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Title: Investigations on Empire series postage stamps of Ottomans (printed 1880-1890) by vibrational spectroscopic and energy dispersive X-ray fluorescence techniques



Author: <ce:author id="aut0005" author-id="S0924203116301254-5fb543ddf9109afbce147eb8ba0634c7"> Tanil Akyuz<ce:author id="aut0010" author-id="S0924203116301254f776990dc68e1856f01dadf44b5ab383"> Sevim Akyuz

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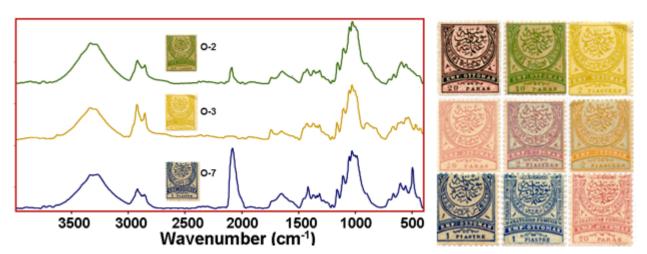
Investigations on Empire series postage stamps of Ottomans (printed 1880-1890) by vibrational spectroscopic and energy dispersive X-ray fluorescence techniques

Tanil Akyuz, Sevim Akyuz*

Physics Department, Science and Letters Faculty, Istanbul Kultur University, Atakoy

Campus, Bakirkoy 34156, Istanbul, Turkey

* Corresponding author. Tel: +90 2124984401, Fax: +90 2124658310; *E-mail address:* s.akyuz@iku.edu.tr (S. Akyuz).



Graphical abstract

Highlights

- Nine Ottoman Empire series of stamps were analyzed non-destructively by means of ATR-FTIR, Raman and EDXRF.
- > Identification of pigments was performed.
- > All stamps were colored with inorganic pigments
- Chrome yellow, Prussian blue, vermillion, magnetite and MnO₂ were identified.

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