Effects of alteration on exposed artifacts produced by the influence of electromagnetic radiation applied to the azo chromophores

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Abstract

The following bibliographical work compile the improvements in artifact lighting systems aimed at museum or museum environments to enhance and safeguard the chromophoric qualities of delicate archaeological elements such as ceramics, mosaics or textiles in museum or musealized environments. Will be reviewed the main concepts of the processes of creation and interaction of electromagnetic radiation and how it is possible to quantify and detect the alterations that this supposes in the artifacts, as well as their sources. The main manifestations associated with photocatalytic processes in real cases of exhibited work will be recognized and studied, specifically, how electromagnetic radiation affects the azo group of chromophores in lake pigments, and the awareness of the different magnitudes that may exist in all these processes.

Keywords: Light, photochemical, azo dye, electromagnetic radiation, art, archaeology

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