

Climate Change of Pollution and its destructive effect on Mechanical and Physical Properties of Historical Albumin Photographs Prints

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Abstract

This paper presents a study of the result of changing the mechanical and physical properties of Black and White Silver Albumin Photographs Prints due to exposure to air pollution gases. The test material used is black-and-white silver albumin photographic paper. Different properties and characteristics of the prints have then been measured and compared before and after the exposing. Mechanical and physical performance was also investigated. Tensile strength, elongation percentage, and resistance breakout force and tear have been determined. Identify change in functional groups by using FT-IR ATR. Learn about the change in surface morphology and chemical composition of components by using SEM-ADX. The obtained results indicate a certain change in the mechanical physical properties of the supporting paper, which may probably increase with time. As a result of slightly influences on Albumin structure units were observed when N₂ gas and CS₂ gas were applied. Both gases surprisingly decreased the aging processes through decreasing CO₂ release from Albumin structural unit.

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2. "Methylation status and protein expression of RASSF1A in breast cancer patients"; spriger/ 41, pages57–65(2014)
3. "New 4-phenylcoumarin derivatives as potent 3C protease inhibitors: Design, synthesis, anti-HAV effect and molecular modeling"; European Journal of Medicinal Chemistry, Volume 168, 2019, Pages 447-460
4. "Role of circulating miR-182 and miR-150 as biomarkers for cirrhosis and hepatocellular carcinoma post HCV infection in Egyptian patients", Virus Research, Volume 255, Volume 255

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Biography:

Rasha Shaheen obtained her MA in Conservation and Preservation of Paper and Heritage Photographs from the University of Catania, Italy in 2017. She is a member of ICOM-CC and IIC. She also participated in many scientific conferences, symposium and forums, obtained many scholarships, and she also gave many lectures on how to preserve and conserve photographs. Editor in: AUCTORES: Journal Pollution and Public Health and Maa International Journal of Research in Agriculture Science. Published more than 17 articles.

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