

## Accepted Manuscript

Controlled time release and leaching of silver nanoparticles using a thin immobilizing layer of aluminum oxide



Kofi J. Brobbey, Janne Haapanen, Marianne Gunell, Martti Toivakka, Jyrki M. Mäkelä, Erkki Eerola, Rizwan Ali, Muhammad R. Saleem, Seppo Honkanen, Johan Bobacka, Jarkko J. Saarinen

PII: S0040-6090(17)30741-1  
DOI: doi:[10.1016/j.tsf.2017.09.060](https://doi.org/10.1016/j.tsf.2017.09.060)  
Reference: TSF 36268  
To appear in: *Thin Solid Films*  
Received date: 26 April 2017  
Revised date: 19 September 2017  
Accepted date: 29 September 2017

Please cite this article as: Kofi J. Brobbey, Janne Haapanen, Marianne Gunell, Martti Toivakka, Jyrki M. Mäkelä, Erkki Eerola, Rizwan Ali, Muhammad R. Saleem, Seppo Honkanen, Johan Bobacka, Jarkko J. Saarinen , Controlled time release and leaching of silver nanoparticles using a thin immobilizing layer of aluminum oxide. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Tsf(2017), doi:[10.1016/j.tsf.2017.09.060](https://doi.org/10.1016/j.tsf.2017.09.060)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**CONTROLLED TIME RELEASE AND LEACHING OF SILVER NANOPARTICLES  
USING A THIN IMMOBILIZING LAYER OF ALUMINUM OXIDE**

Kofi J. Brobbey <sup>a\*</sup>, Janne Haapanen <sup>b</sup>, Marianne Gunell <sup>c</sup>, Martti Toivakka <sup>a</sup> Jyrki M. Mäkelä <sup>b</sup>,  
Erkki Eerola <sup>c</sup>, Rizwan Ali <sup>d</sup>, Muhammad R. Saleem <sup>d</sup>, Seppo Honkanen <sup>d</sup>, Johan Bobacka <sup>e</sup>,  
Jarkko J. Saarinen <sup>a</sup>

<sup>a</sup> Laboratory of Paper Coating and Converting, Center for Functional Materials, Åbo Akademi University, Porthansgatan 3, FI-20500 Åbo/Turku, Finland

<sup>b</sup> Aerosol Physics, Faculty of Natural Sciences, Tampere University of Technology, P.O. Box 692, FI-33101 Tampere, Finland

<sup>c</sup> Medical Microbiology and Immunology, University of Turku, Kiinamyllynkatu 13, FI-20520 Turku, Finland

<sup>d</sup> Institute of Photonics, University of Eastern Finland, P.O. Box 111, FI-80101, Joensuu-Finland

<sup>e</sup> Laboratory of Analytical Chemistry, Åbo Akademi University, Biskopsgatan 8, FI-20500 Åbo/Turku, Finland

Corresponding Author: Kofi J. Brobbey, Laboratory of Paper Coating and Converting, Center for Functional Materials, Åbo Akademi University, Porthansgatan 3, FI-20500 Åbo/Turku, Finland.

Kofi.brobbey@abo.fi, Tel: +358451588098

Download English Version:

<https://daneshyari.com/en/article/8033193>

Download Persian Version:

<https://daneshyari.com/article/8033193>

[Daneshyari.com](https://daneshyari.com)