

Natalya Froumin

Profile information of editors team

1. Academic degree

Ph.D.

2. Current Position and affiliation

Researcher rank A,

Manager of Surface Analysis Laboratory in the Ilza Kaz Institute of Nano Technologies

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3. Contacts

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4. Research interests

Investigation of the interfacial phenomena in the metallic melts / non-metal contact systems. The results of the studies are published in 75 scientific manuscripts.

Investigations of thin films composition and chemical bonds, examination of different new nano materials as well as studies of surface phenomena like adsorption and catalytically properties of materials. These studies are published in 32 scientific manuscripts

5. Member of Editorial Boards

6. Selected Publications (5-10)

- A. Osherov, M. Matmor, N. Froumin, N. Ashkenasy, Y Golan, 2011 Surface termination control in chemically deposited PbS films: Nucleation and growth on GaAs(111)A and GaAs(111)B. J. of Phys. Chem.C, v 115, n 33, p 16501-16508

- E.Glickman, D. Fuks, N. Frage, S.Barzilai, N Froumin, 2012. Adsorption effect in non-reaction wetting: In-Ti on CaF₂. Applied Physics A: Materials Science and Processing, v 106, n 1, p 181-189.
- M.Aizenshtein, N. Froumin, N. Frage, 2011 The nature of TiB₂ wetting by Cu and Au. Joining Journal of Materials Engineering and Performance, v 21, n 5, p 655-659
- S.Barzilai, N. Froumin, E. Glickman, D. Fuks, N. Frage, 2012 Wetting of calcium fluoride by liquid metals. J.of Mater. Sci., v 47, n 24, p 8404-18.
- Morag , N. Froumin , D. Mogiliansky , V. Ezersky , E. Beilis , S. Richter , R. Jelinek . 2013, Patterned transparent conductive Au films through direct reduction of gold thiocyanate . Adv. Funct. Mater. V.23,n 45, p. 5663–5668
- M.Pinkas , Z. Foxman, N. Froumin, P. Hähner , L. Meshi . 2015. Sensitivity of thermo-electric power measurements to α - α' phase separation in Cr-rich oxide dispersion strengthened steels. J. Mater. Sci.50(13) 234-240.
- Xiuxiu Yin, Y. Peretz, P. G. Oppenheimer, L. Zeiri, A.Masarwa, N.Froumin and R. Jelinek. 2016 Conductive and SERS-active colloidal gold films spontaneously formed at a liquid/liquid interface. RSC Advances, 6, 33326-33331
- E. Korin, N. Froumin, S.Cohen. 2017. Surface Analysis of Nanocomplexes by X-ray Photoelectron Spectroscopy (XPS). Biomaterials Science & Engineering, in press