**CURRICULUM VITAE**

**Adli A. Saleh, PhD**

Arab American University

**E-mail: adli.saleh@aauj.edu**

**Education:**

* Ph.D. in Experimental Solid State Physics. Montana State University, Bozeman, MT, USA (1988-1993).

Dissertation Title: "A New Phase of Titanium on Al Surfaces: Epitaxial growth and Hydrogen Uptake Properties".

**Experience:**

* February 1, 2003-present, Arab American University**.**
* April 1, 1996-January 31, 2003, Charles Evans & Associates, Sunnyvale, CA, USA: **Materials Analyst and Manager/SEM and SIMS services.**
* January 1, 1994-March 3, 1996, Montana State University, MT, USA: **Adjunct Professor and Postdoctoral Fellow.**

**Research Interests:**

 Research interests include surface and materials science thin/ultrathin films fabrication as well as the application of ion, electron, and *x*-ray spectroscopies to characterize surface, interface, and bulk structures and to study the properties of various solid state systems. My industrial experience involved the application of Secondary Ion Mass Spectrometry (SIMS) and Scanning Electron Microscopy, among other techniques, in the analysis and of technological materials, namely materials critical to the computer and electronics industry. Work at Charles Evans & Associates (CE&A), a worldwide provider of materials analytical services to the makers and users of technologically relevant materials and devices in a wide range of applications, namely semiconductors.

**Publications (Selected):**

**Adli. A. Saleh**, A. F. Qasrawi, G. Yumuşak, and A. Mergen. "Physical properties of neodymium tin oxide pyrochlore ceramics." Materials Science-Poland (2017) **DOI:**<https://doi.org/10.1515/msp-2017-0057>.

“Effect of surface composition and microstructure of aluminised steel on the formation of a titanium-based conversion layer”, Ine Schoukens, Isabelle Vandendael, Joost De Strycker, **Adli A. Saleh**, Herman Terryn, Iris De Graeve, Surface and Coatings Technology, 11/2013; 235:628-636.

“Structural, compositional and optical properties of gallium selenide thin films doped with cadmium”, A.F. Qasrawi, **A. A. Saleh**, Crystal Research and Technology, **7** (2008): 769-772.

 “The effect of altitude and velocity dependent wave-particle interactions on the H+ and O+ outflows in the auroral region”,I. A. Barghouthi, N. M. Doudin, **A. A. Saleh**, V. Pierrard, *Journal of atmospheric and solar-terrestrial physics*,**70**(2008), 1159 – 1169.

 “High-altitude and high-latitude O+ and H+ outflows: The effect of finite electromagnetic turbulence wavelength”,I. A. Barghouthi, N. M. Doudin, **A. A. Saleh** , V. Pierrard, *Annales Geophysicae*, **25**(2007), 2195 – 2202.

“Thermal Stability of Thin Ti Films on Al Single Crystal Surfaces”, C.V. Ramana, Bum Sik Choi, R.J. Smith, R. Hutchison, S. P. Stuk, Byoung Suk Park, **Adli A. Saleh**, Dong Ryul Jeon, J. Vac. Sci. Technol. A**21(4)**, 1326 (2003).

“Using MeV ion backscattering/channeling and MC simulations to characterize the composition and structure of buried metal-metal interfaces”, R. J. Smith, C.V. Ramana, Bum-sik Choi, **Adli A. Saleh**, N.R. Shivaparan, V. Shutthanandan, Applied Surface Science, **219** (2003) 28-38.

"Alloy formation at the Ni-Al interface for nickel films deposited on Al(110) surfaces", V. Shutthanandan, Adli A. Saleh, and R.J. Smith, Surface Science **450** (2000) 204-226.

Fluorine barrier properties of bias sputtered tungston films, S.B. Herner, H.-M. Zhang, Y. Tanaka, W. Shi, S.X. Yang, R. Lum, K. A. Littau and **A. Saleh**, J. Electrochem. Soc., **147(5)**(2000) 1936-1939.

A comparative study on ICP high-density plasma, plasma-enhanced and low pressure CVD silicon nitride films, J. Yota, J. Hande and **A.A. Saleh**, to appear in , J. Vac. Sci Technol. A in March 2000.

Characterization of SiOxNy anti-reflective coatings using SIMS and RBS/HFS, **Adli A. Saleh**, J. Bruce Rothmann, J.F. Kirchhoff, Jiro Yota, Chau Nguyen, Thin Solid Films, **355-356,** 363 (1999).

Growth and morphology of Er-doped GaN on saphire and hydride vapor phase epitaxy substrates, R. Birkhahn, R. Hudgins, D. Lee, R.J. Molnar, **A. Saleh**, J.M. Zavada and A.J. Steckl, J. Vac. Sci Technol. B **17**, 1195(1999).

Epitaxial Growth of fcc Ti films on Al(001) surfaces, **Adli A. Saleh**, V. Shutthanandan, N.R. Shivaparan and R. J. Smith, Phys. Rev. B **56**, 9841 (1997).

The Growth of thin Ti films on Si(111)-77 surfaces, **Adli A. Saleh** and Lisa D. Peterson, submitted to J. Vac. Sci. Technol. **A 14**, 30(1996).

Growth of ultrathin Pd films on Al(100)) surfaces, V.Shutthanandan, **Adli A. Saleh**, N. R. Shivaparan, and R. J. Smith, Surface Science, **350** (1996) p 11.

Growth of transition metal films on Al(110) surfaces, R. J. Smith, **Adli A. Saleh**, V.Shutthanandan, N. R. Shivaparan and V. Krasemann, Journal of Materials Science and Research, Mat. Res. Soc. Symp. Proc. Vol. 399 (1996) p 135

Observation of Ultrathin Metastable *fcc* Ti Films on Al(110) Surfaces, **Adli A. Saleh**, V. Shutthanandan and R. J. Smith, Phys. Rev. B **49**, 4908 (1994).

Growth of Ti thin films on Al(110) surfaces, **Adli A. Saleh**, V. Shutthanandan and R. J. Smith. J. Vac. Sci. Technol. **A 11**, 1982 (1993).