

CV

Abdallah Ababneh

Associate Professor, Electronics Engineering Department, Hijawi Faculty for Engineering Technology-Yarmouk University

EDUCATION

Degree	Discipline	Institution	Year
Ph.D.	Electrical Engineering	Saarland University, Germany	2009
Diplom (B.S.&M.S.)	Electrical Engineering	Saarland University, Germany	2002

ACADEMIC EXPERIENCE

- Saarland University, Germany, teaching & Research Assistant, 2003-2010, Full time.
- Yarmouk University, Jordan, assistant Professor, 2010-2016, Full time.
- Yarmouk University, Jordan, associate Professor, 2016-to-date, Full time.
- Yarmouk University, Jordan, head of Electronics Department, 2016-2018.
- Saarland University, Germany, guest professorship, 2018-2019, Full time.
- Yarmouk University, Jordan, final projects and field training supervisor.
- Yarmouk University, Jordan, member of the Committee for Monitoring and Advising of student affairs.
- Yarmouk University, Jordan, member of the Examining Committee of Field Training students and graduation projects.

PROFESSIONAL SOCIETY MEMBERSHIP

- Jordan Engineers Association (JEA) since 2004.

HONORS AND AWARDS

- Awards from German Research Foundation (DFG) for research stays at the Chair of Micromechanics, Microfluidics/ Microactuators (06/2011- 09/2011) (06/2012- 09/2012) (06/2013- 09/2013) (Saarland University/Germany).
- Visiting professor in Germany (06/2016- 09/2016) at the Chair of Micromechanics, Microfluidics/ Microactuators (Saarland University).
- Guest professor in Germany (08/2018- 08/2019) at the Chair of Micromechanics, Microfluidics/ Microactuators (Saarland University).

SERVICE ACTIVITIES

- Engineering faculty council member, Yarmouk University, Jordan, (2012 – 2013) and (2016-2018).
- University council member , Yarmouk University, Jordan, (2019– 2020).
- Member and head of several department committees, 2010 to present.
- Member of courses validation committee for transfer students.
- Member of the faculty library committee.
- Member of the Programme Committee of the conference “Smart Sensors, Actuators, and MEMS V, SPIE Microtechnologies.
- Peer technical reviewer of the several international journals.

FUNDED RESEARCH GRANTS

- Research stays in Germany for the periods (06/2011- 09/2011), (06/2012- 09/2012) and (06/2013- 09/2013) at the Chair of Micromechanics, Microfluidics/Microactuators (Saarland University, Professor Helmut Seidel) awarded from German Research Foundation.

SELECTED PUBLICATIONS

1. Modeling the damping mechanism of MEMS oscillators in the transitional flow regime with thermal waves, T. Zengerle, J. Joppich, P. Schwarz, **A. Ababneh**, H. Seidel, *Sensors and Actuators A: Physical*, Vol. 311, 112068 (2020).
2. Bidirectional Linear Motion by Travelling Waves on Legged Piezoelectric Microfabricated Plates, V. Ruiz-Díez, J. Hernando-García, J. Toledo, **A. Ababneh**, H. Seidel, J.L Sánchez-Rojas, *Micromachines*, 11(5), 517 (2020).
3. Optical characterization of sputtered aluminum nitride thin films – correlating refractive index with degree of c-axis orientation, **A. Ababneh**, Z. Albatineh, A.M.K. Dagamseh, I.S. Al-kofahi, B. Schäfer, T. Zengerle, K. Bauer, H. Seidel, *Thin Solid Films*, Vol. 693, 137701, (2020).
4. Polyatomic degrees of freedom and their temporal evolution extracted from the damping of micro-oscillators, T. Zengerle, J. Joppich, P. Schwarz, **A. Ababneh**, H. Seidel, *Sensors and Actuators A: Physical*, Vol. 297, 111460 (2019).
5. Generation of Linear Traveling Waves in Piezoelectric Plates in Air and Liquid, A. Diaz Molina, V. Ruiz-Díez, J. Hernando-García, **A. Ababneh**, H. Seidel, J.L Sánchez-Rojas, *Micromachines*, 10(5), 283 (2019).
6. A Geometrical Study on the Roof Tile-Shaped Modes in AlN-Based Piezoelectric Microcantilevers as Viscosity–Density Sensors, V. Ruiz-Díez, J. Hernando-García, J. Toledo, A. Ababneh, H. Seidel, J.L Sánchez-Rojas, *Sensors*, 19(3), 658 (2019).
7. Characteristics of Polyimide-planarized Oxide-confined Vertical-cavity Surface-emitting Laser (VCSEL) Diodes with Passive Heat Sinking, A. N. Al-Omari, A. M. K. Dagamseh, O. M. Khreis, **A. Ababneh**, K. L. Lear, *Lasers in Engineering (Old City Publishing)*, Vol. 38 Issue 3-6, p153-165 (2017).
8. Electrical and morphological characterization of platinum thin-films with various adhesion layers for high temperature applications, **A. Ababneh**, A. N. Al-Omari, A. M. K. Dagamseh, M. Tantawi, C. Pauly, F. Mücklich, D. Feili, H. Seidel, *Microsystem Technologies* 23, 703–709 (2017).
9. Analysis of intrinsic damping in vibrating piezoelectric microcantilevers, H. Qiu, **A. Ababneh**, D. Feili, X. Wu, H. Seidel - *Microsystem Technologies* 22, 2017–2025 (2016).
10. In-liquid characterization of in-plane and high order out-of-plane modes of AlN-based square microplates, V. Ruiz-Díez, J. Hernando-García, **A. Ababneh**, H. Seidel, J.L. Sánchez-Rojas, *Microsystem Technologies* 22, 1701–1708 (2016).
11. Electrical characterization of micromachined AlN resonators at various back pressures, **A. Ababneh**, A.N. Al-Omari, A.M.K Dagamseh, H.C Qiu, D. Feili, V. Ruiz-Díez, T. Manzanque, J. Hernando, J.L. Sánchez-Rojas, A. Bittner, U. Schmid, H. Seidel, *Microsystem technologies* 20, 663-670 (2014).

PROFESSIONAL DEVELOPMENT ACTIVITIES

- A workshop on “How to Prepare the Faculty Academic File for Promotion Purpose”, held by Prof. Ziad Al-Saad-vice president for Academic Affairs-Yarmouk University-Jordan.
- A workshop on “University and community service”, held at Yarmouk University-Jordan.