

# Ashkhen Edvardi Yesayan

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## Research Institute of Physics

Laboratory of Nanoplasmonics

Senior researcher

## Education

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Radiophysics
<b>Date</b>	1989 - 1994
<b>Degree name</b>	Qualified specialist

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## Scientific Rank/degree

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<b>Institution</b>	Yerevan State University
<b>Date</b>	2005
<b>Degree name</b>	Candidate
<b>Specialty</b>	Physico-mathematical sciences
<b>Scientific Supervisor</b>	Prof. Stepan Petrosyan
<b>Research Topic</b>	Contact Phenomena in Low-dDimensional Systems

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## Language skills

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English Русский

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## Work experience

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<b>Institution</b>	Institute of Radiophysics and Electronics
<b>Period of time</b>	2011 - 2023
<b>Rank/degree</b>	Senior researcher, Scientific secretary

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<b>Institution</b>	University of Strasbourg
<b>Period of time</b>	2009 - 2011
<b>Rank/degree</b>	Scientific researcher/Postdoc

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<b>Institution</b>	University of Pisa
<b>Period of time</b>	2007 - 2008
<b>Rank/degree</b>	Scientific researcher/Postdoc

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## Scientific interests

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- Semiconductor device physics, 2D systems, MOSFET/ FinFET, junctionless FET, Nanowires (NW), NW FET, NW ISFET, Photonics, Nanoplasmonics
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## Participation in international conferences and seminars

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**07/01/2019 - 30/06/2019**      scientific visit  
École polytechnique fédérale de Lausanne (EPFL)  
Switzerland

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## Membership

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**Institution**                      International Journal of High Speed Electronics and Systems, Editorial Board member  
**Period of time**                      2020 till now

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**Institution**                      IEEE & EDS membership  
**Period of time**                      2017 till now

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## Publications

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*Article*

### **Sensitivity Analysis of Nanowire FET Biosensor**

A. Yesayan

Armenian Journal of Physics 2022 171-174

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*Article*

### **Verilog\_A Implementation of Nanowire Junctionless ISFET Compact Model and Read-out Circuit Design**

A. E. YESAYAN, N. D. YEZAKYAN, J-M. SALLESE

ՀՀ ԳԱԱ և ՀԱՊՀ տեղեկագիր տեխնիկական գիտությունների սերիա 2022 398-406

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*Article*

### **GRAPHITE-INSULATOR-METAL BASED METAMATERIAL ABSORBER AT X-BAND**

D. Hambaryan, L. Gevorgyan, H. Parsamyan, A. Yesayan, H. Haroyan, Kh. Nerkararyan

IEEE Xplore 2022 15-17

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*Article*

### **Nanowire Array Solar Cells**

Ashkhen Yesayan, Varsenik Khachatryan, Stepan Petrosyan

IEEE Latin America Electron Devices Conference 2022 2022 1-4

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