

# Artyom Samvel Movsisyan

✉ a.movsisyan@ysu.am



## Institute of Physics

Office of the Institute of Physics  
Specialist on Administrative Affairs

## Education

---

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Radiophysics
<b>Date</b>	2021 - 2023
<b>Degree name</b>	Masters

---

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Radiophysics
<b>Date</b>	2017 - 2021
<b>Degree name</b>	Bachelor

---

## Language skills

Հայերեն Русский English

---

## Work experience

---

<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2023 till now
<b>Rank/degree</b>	Office of the Institute of Physics Specialist on Administrative Affairs

---

<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2021 - 2023
<b>Rank/degree</b>	Head of educational laboratory of the chair of Applied electrodynamics and modeling of faculty of Radiophysics

---

## Publications

*Article*

### **Double Fano resonances of cylindrical metastructures in X-band based on intercomponent coupling and wave interaction**

Artyom Movsisyan

Journal of Electromagnetic Waves and Applications 2025 510-522

---

*Article*

### **Resonant enhancement and confinement of microwave field in coupled conductive rod**

## **systems**

Tigran Abrahamyan, Gor Ohanyan, David Hambaryan, Artyom Movsisyan, Henrik Parsamyan,  
Hovhannes Haroyan, Arsen Babajanyan, Khachatur Nerkararyan  
Physica Scripta 2025 025515

---

### *Article*

#### **Dielectric coated conductive rod resonantly coupled with a cut transmission line as a tunable microwave bandstop filter and sensor**

David Hambaryan, Tigran Abrahamyan, Henrik Parsamyan, Artyom Movsisyan, Bill Minasyan,  
Hovhannes Haroyan, Arsen Babajanyan, Kiejin Lee, Barry Friedman, Khachatur Nerkararyan  
Heliyon 2024 e24477

---

### *Article*

#### **Gap-enhanced optical bistability in plasmonic core-nonlinear shell dimers**

Artyom Movsisyan, Henrik Parsamyan  
Nanoscale 2024 2030-2038

---

### *Article*

#### **Reflective multi-layer metasurface based on half-wave plate structure for polarization control in the visible-near-infrared region**

Artyom Movsisyan, Hasmik Manukyan, Billi Minasyan, Arsen Babajanyan  
Physica Scripta 2024 095545

---

### *Article*

#### **Characterization of microwave response of the mesh-pattern vs. uniformly-coated indium-tin-oxide indicator for the thermoelastic optical microscope: a comparative analysis**

Artyom Movsisyan, Hasmik Manukyan, Billi Minasyan, Zhirayr Baghdasryan, Kiejin Lee,  
Arsen Babajanyan  
IET Conference Proceedings 2024 15-18

---

### *Article*

#### **Characterization of Metal Nanoparticles Aqueous Solution by a Thermoelastic Optical Indicator Microscope**

G. Ohanyan, N. Margaryan, M. Manvelyan, L. Odabashyan, B. Minasyan, A. Movsisyan, R. Khachatryan,  
A. Babajanyan  
Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 187-191

---

### *Article*

#### **Solvent Effects on Spin-Spin Coupling Constants in Organomercury Compounds**

A.A. SHAHKHATUNI, A.S. MOVSISYAN, A.A.SHAHINYAN, A.G. SHAHKHATUNI  
Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 69-72

---

### *Article*

#### **Performance of Pentacene Based Organic Thin Film Transistor with an Octadecyltrichlorosilane Self-Assembled Monolayer Interface**

A. Babajanyan, B. Minasyan, A. Movsisyan, B. Friedman, K. Lee  
Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 208-213

---

### *Conference*

**Dielectric-Coated Conductive Rod Resonantly Coupled with a Cut Goubau Line as a Sensitive Microwave Sensor**

Tigran Abrahamyan, Hovhannes Haroyan, David Hambaryan, Artyom Movsisy, Henrik Parsamyan, Arsen Babajanyan, Khachatur Nerkararyan, Kiejn Lee

---