

Viktar Asadchy  
Assistant Professor  
Department of Electronics and Nanoengineering  
Viktar Asadchy Group  
**Type of address: Postal address.**  
Maarintie 8  
**Email:** viktar.asadchy@aalto.fi  
**Mobile:** +358 50 4205846



## Artistic and research interests

Main research interests include spatially dispersive materials, metasurfaces, reconfigurable intelligent surfaces, photonic crystals, electromagnetic nonreciprocity, time-varying systems, Weyl semimetals, and advanced diffractive optical components.

## Qualifications

Doctor of Science, Radio Engineering, Aalto University School of Electrical Engineering  
Award Date: 19 Oct 2017

Master of Science, Functional metasurfaces with controllable properties, Francisk Skorina Gomel State University  
1 Sept 2013 → 20 Jun 2014  
Award Date: 20 Jun 2014

Bachelor of Science, Transmission of electromagnetic waves through layers of metamaterials based on bi-anisotropic inclusions, Francisk Skorina Gomel State University  
1 Sept 2008 → 30 Jun 2013  
Award Date: 30 Jun 2013

## Employment

### Assistant Professor

Assistant Professor  
Department of Electronics and Nanoengineering  
Aalto University  
15 Aug 2022 → present

### Viktar Asadchy Group

Aalto University  
1 Aug 2022 → present

### Postdoctoral Fellow

Stanford University  
Stanford, United States  
6 Jan 2019 → 31 Jul 2022

### Postdoctoral Researcher

Aalto University  
Aalto, Finland  
1 Oct 2017 → 1 Dec 2018

## Activities

### Karlsruhe Institute of Technology

Viktar Asadchy (Visiting researcher)  
15 Oct 2016 → 15 Dec 2016

### 36th ESA Antenna Workshop, Alankomaat

Viktar Asadchy (Contributor)  
2015

## **9th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics, UK**

Viktar Asadchy (Contributor)  
2015

## **Prizes**

### **2019 Sergei A. Schelkunoff Transactions Prize Paper Award**

Asadchy, Viktar (Recipient), Cuesta Soto, Francisco (Recipient), Faniayeu, Ihar A. (Recipient) & Tretiakov, Sergei (Recipient), 2019

### **Aalto Dissertation Award**

Asadchy, Viktar (Recipient), 2018

### **Aalto ELEC Doctoral School Funding**

Asadchy, Viktar (Recipient), 2015

### **Foundation for Aalto University Science and Technology**

Asadchy, Viktar (Recipient), 2016

### **Foundation for Aalto University Science and Technology**

Asadchy, Viktar (Recipient), 2016

### **Jorma Ollila Grant**

Asadchy, Viktar (Recipient), 2018

### **Nokia Foundation**

Asadchy, Viktar (Recipient), 2014

### **Nokia Foundation Nokia Foundation, Finland**

Asadchy, Viktar (Recipient), 2015

### **The award of the Gomel Regional Executive Committee**

Asadchy, Viktar (Recipient), 2013

### **The Finnish Foundation for Technology Promotion**

Asadchy, Viktar (Recipient), 2018

### **The scholarship of the President of the Republic of Belarus**

Asadchy, Viktar (Recipient), 2013

### **Young Scientist Best Paper Award at URSI EMTS 2019**

Asadchy, Viktar (Recipient), 2019

## **Projects**

### **VISORSURF: A Hardware Platform for Software-driven Functional Metasurfaces**

Tretiakov, S., Asadchy, V., Liu, F., Cuesta Soto, F., Ptitsyn, G., Wang, X., Mirmoosa, M., Jayathurathnage, P. & Tzarouchis, D.

01/01/2017 → 31/12/2020

**DeCAP: Designer Composites with Axionic Properties**

Asadchy, V., Safaei Jazi, S. & Amrahi Iniolya, B.

01/09/2023 → 31/08/2027

**LATERA: Large-Area, flexible TERahetz Arrays**

Räsänen, A., Ala-Laurinaho, J., Semkin, V., Wang, X., Zheng, J. & Asadchy, V.

01/09/2015 → 31/08/2018

**-: Profi7 Asadchy T41104**

Naukkarinen, O. & Asadchy, V.

01/01/2023 → 31/12/2028

**Transparent reflectors: Functional metasurfaces for future antenna technology**

Diaz Rubio, A., Tretiakov, S., Tcvetkova, S., Albooyeh, M., Radi, Y., Asadchy, V., Ptitsyn, G. & Cuesta Soto, F.

01/09/2015 → 31/08/2019