

Viktar Asadchy
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Department of Electronics and Nanoengineering
Viktar Asadchy Group
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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