

# Areg Ashot Hunanyan

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## Research Institute of Physics

Computational Materials Science Laboratory

Researcher

## Education

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<b>Institution</b>	Yerevan state university
<b>Faculty</b>	Radiophysics
<b>Date</b>	2017 - 2019
<b>Degree name</b>	Masters

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<b>Institution</b>	Yerevan state university
<b>Faculty</b>	Radiophysics
<b>Date</b>	2013 - 2017
<b>Degree name</b>	Bachelor

## Scientific Rank/degree

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<b>Institution</b>	Yerevan state university
<b>Date</b>	2022
<b>Degree name</b>	Candidate
<b>Specialty</b>	Physico-mathematical sciences
<b>Scientific Supervisor</b>	Vladimir M. Aroutiounian
<b>Research Topic</b>	Computational search for novel two dimensional tin oxides and their application in semiconductor gas sensors

## Language skills

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Հայերեն English Русский Français

## Work experience

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<b>Institution</b>	Yerevan state university
<b>Period of time</b>	2020 till now
<b>Rank/degree</b>	Junior research scientist

## Publications

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Article

**Computational Search and Stability Analysis of Two-Dimensional Tin Oxides**

Areg A. Hunanyan, Vladimir M. Aroutiounian, Hayk A. Zakaryan

Journal of Physical Chemistry C 2022 4647-4654

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*Article*

**Computational Search and Stability Analysis of Two-Dimensional Tin Oxides**

Areg A. Hunanyan, Hayk A. Zakaryan, Vladimir M. Aroutiounian

Journal of Physical Chemistry C 2022 4647-4654

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*Article*

**Interaction of Water Molecule with Two-Dimensional Tin Dioxide**

A. A. Hunanyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 265-268

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*Article*

**First-Principles Study of the Interaction of H<sub>2</sub>O<sub>2</sub> with the SnO<sub>2</sub> (110) Surface**

M. A. Aghamalyan, A. A. Hunanyan, V. M. Aroutiounian, M. S. Aleksanyan, A. G. Sayunts, H. A. Zakaryan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 235-239

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*Article*

**Formation Energy of Intrinsic and Impurity Defects in Tin Dioxide**

A. A. Hunanyan, M. A. Aghamalyan, V. M. Aroutiounian, H. A. Zakaryan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2019 282-286

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