

# Samvel Gerasim GEVORGYAN

**Research Institute of Physics**  
Laboratory of Solid State Physics  
Leading researcher

☎ 23-60  
(060) 71-03-60  
✉ gevs\_sam@ysu.am

## Language skills

Հայերեն Русский English

## Publications

*Article*

**Applicability of the single-layer flat-coil-oscillator technology-based vibration and vibro-acoustic sensors in medical and biological study of the cardiovascular system: Advantages and perspectives of the carotid pulse wave registration**

G. S. Gevorgyan, S. G. Gevorgyan, A. S. Khachunts, A. A. Tumanian, N. E. Tadevosyan

Review of Scientific Instruments 2022 054109

*Article*

**On the possibility of recording and studying human movement activity with seismic sensors of a new type: Advantages and prospects of the single-layer flat-coil-oscillator technology based sensors**

S.G. Gevorgyan, G.S. Gevorgyan, V.S. Gevorgyan, B.K. Kurghinyan, A.S. Khachunts, H.G. Shirinyan,

S.A. Khachunts

Review of Scientific Instruments 2021 055011

*Article*

**Бесконтактное дальнеполевое неdestructивное сканирование различных структур и сред радиочастотным «магнитно-полевым» SFCO зондом - новая технология визуализации**

С.Г. Геворгян, Г.С. Геворгян, А.С. Хачунц, С.А. Хачунц

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 63-77

*Article*

**Non-Contact Far-Field Non-Destructive Scanning of Various Structures and Media by Radio-Frequency 'Magnetic-Field' SFCO-Probe - a New Type of Visualization Technology**

A. S. Khachunts, S. G. Gevorgyan, G. S. Gevorgyan, S. A. Khachunts

Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 46-56

*Article*

**Radio-Frequency 'Magnetic-Field' Probes Based on the Single Layer Flat Coil Oscillators - New Type of SFCO-sensors for Bio-Medical Investigations**

A. S. Khachunts, S. G. Gevorgyan, N. E. Tadevosyan, A. A. Tumanyan, E. G. Kostanyan, I. G. Tadevosyan,

B. K. Kurghinyan, S. A. Khachunts, V. S. Gevorgyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2019 386-393

*Article*

**On the Possibility of Application of SFCO Sensors for Investigation of Vibration and Acoustic Signals from Biological Objects**

A. S. Khachunts, S. G. Gevorgyan, I. G. Tadevosyan, E. G. Kostanyan, S. T. Muradyan, V. S. Gevorgyan, N. E. Tadevosyan, S. A. Khachunts

Journal of Contemporary Physics (Armenian Academy of Sciences) 2017 286-294

---

*Manual*

**Տեսաձրող զոնդային մանրադիտում**

Ս.Տ. ՄՈՒՐԱԴՅԱՆ, Ֆ.Կ. ԿԱՐԴԱՆՅԱՆ, Ս.Գ. ԳԵՎՈՐԳՅԱՆ

2010 194

---

*Conference*

**A Single-Layer Flat-Coil-Oscillator-Based Technology as a Highly Sensitive Promising Detector for State-Of-The-Art Applications in Different Fields of Science**

S.G. Gevorgyan, A.S. Khachunts

---

*Conference*

**SFCO POSITION AND VIBRATION SENSORS AS A HIGHLY SENSITIVE TOOL FOR BEHAVIORAL PHYSIOLOGY RESEARCH**

SG Gevorgyan, AS Khachunts, AA Tumanian, AR Sargsyan, GS Gevorgyan

---