# CV of Ferenc Simon

## Personal data


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| Name | Ferenc Simon |
| Position | Professor, Vice-Dean of the Faculty of Natural Sciences, BME |
| Current institution | Department of Physics,<br>Budapest University of Technology and Economics<br>1111 Budapest, Budafoki út 8<br>Hungary |
| e-mail | simon.ferenc@ttk.bme.hu |
| Phone | +36 1 463 1215 |
| Fax | +36 1 463 4108 |
| Date of birth | 08.06.1974 |
| Personal status | Married, 3 children |
| Homepage | http://goliat.eik.bme.hu/~f.simon/ |


## Education

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|---|---|
| 1992-1997 | MSc degree in physics, BME, Hungary |
| 1997-2002 | PhD in Physics “Magnetism in strongly correlated systems”, BME Hungary |

## Employment

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| 2002-2003 | Research associate | BME-MTA, Hungary |
| 2003-2005 | Postdoctoral researcher (MC-IEF Grant) | University of Vienna, Austria |
| 2005-2009 | Adjunct professor | BME, Hungary |
| 2009-2010 | Postdoctoral researcher | University of Vienna, Austria |
| 2011- | Professor | BME, Hungary |
| 2020 | Visiting professor | EPF Lausanne |
| 2021- | Vice-dean for research and international affairs | BME, Hungary |

## Awards and prizes

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| 2006 | Talentum Prize of the Hungarian Academy of Sciences |
| 2010 | ERC Starting Grant |
| 2013 | Physics prize of the Hungarian Academy of Sciences |
| 2015 | MTA-Lendület |

## Research interests

- Theory of spin relaxation
- Magnetic resonance experiments
- Optical spectroscopy of solids

## Teaching activity

- Experimental physics III (BSc course, thermodynamics and quantum mechanics foundations)
- Physics of Semiconductors (MSc course)
- Laboratory practices (own development: NMR, MRI, rf and heterodyne techniques)

**Students supervised:** 40 BSC/MSc, 13 TDK (Conference of Research Students' Assoc.)

**PhD supervisions:** https://doktori.hu/index.php?menuid=192&lang=EN&sz_ID=4031

3 PhD completed, 4 in progress

**Science Popularization:**

Editor of Fizikai Szemle (Monthly journal of the Eötvös Physics Society)
6 Science popularization papers (1 in German)
Organizations: ScienceCamp (summer camp for high school students) yearly since 2016
ScienceCampus (monthly seminar series for the public) since 2018
Physics for Everyone (A Fizika Mindenkié), biannually since 2018
Researchers' Night (organizer of the BME Fac. of Nat. Sci. programmes) since 2017
Girls' Day (programme for high school STEM students, organizer of the BME Fac. of Nat. Sci. programmes) since 2018

**Memberships and professional service**

- Doctoral council of the physical sciences of the BME
- Faculty board of the Faculty of Natural Sciences of the BME
- Referee PRL, PRB, Nature several others

**Grants, fellowships, projects as PI**

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|---|---|
| 2006-2009 | OTKA F 10 MHUF |
| 2010-2015 | ERC Advanced Grant (1.23 MEuro) |
| 2015-2020 | Momentum Grant of the Hungarian Academy of Sciences (650 kEuro) |
| 2021- | NKFIH OTKA 48 MHUF |
| 2021- | V4-Japan Grant (PI), 150 kEuro |

**Languages**

English (Cambridge proficiency)
German (fluent, university lecturer)
French (conversational)
Spanish (conversational)

**Scientific impact** (as of 01/2023)

143 papers in refereed journals, 5 book chapters, Editor of 4 conf. proc., 23 conf. proc.
50+ invites conference talks and seminars
Total number of independent citations: 2484
H-index: 27

Complete list of publications: https://vm.mtmt.hu//search/slist.php?lang=1&AuthorID=10012456
Google Scholar: https://scholar.google.com/citations?user=-P2lBDoAAAAJ&hl=en

**Five selected publications from the last 5 years**

A. Bojtor et al. ACS Photonics 9, 3341 (2022). senior author
IF=7.53, D1

S. Kollarics et al. Carbon 188, 393 (2022). corresponding author
IF=9.6, D1
2 indep. citations

Palotás et al. ACS Nano 14, 11254 (2020). senior author
IF=14.8, D1
7 indep. citations

Márkus et al. ACS Nano 14, 7492 (2020). senior author
IF=14.8, D1
5 indep. citations

Szirmai et al. Sci. Rep 9, 19480 (2019). senior author
IF=4.0, Q1
9 indep. Citations

**5 most important papers**

F. Simon, et al.: *Anisotropy of superconducting MgB2 as seen in electron spin resonance and magnetization data*, Phys. Rev. Lett. **87**, 047002 (2001).
Indep. Citations: 105

F Simon, et al.: *Low temperature fullerene encapsulation in single wall carbon nanotubes: synthesis of N@ C60@ SWCNT*, Chemical physics letters **383**, 362-367 (2005).
Indep. Citations: 80

F. Simon et al.: *Isotope engineering of carbon nanotube systems*, Phys. Rev. Lett. **95**, 017401 (2005).
Indep. Citations: 64

Boross, P ; Dóra, B ; Kiss, A ; Simon, F: *A unified theory of spin-relaxation due to spin-orbit coupling in metals and semiconductors*, Sci. Rep. **3**, 3233 (2013).
Indep. Citations: 49

F. Simon et al.: *Fullerene release from the inside of carbon nanotubes: A possible route toward drug delivery*, Chem Phys. Lett. **445**, 288 (2007).
Indep. Citations: 44