

Curriculum vitae

Name: Emil Nyerki

Birthplace, date: Dunaújváros, 23.06.1994

E-mail address: harmadikemil@gmail.com

Studies: Petőfi Sándor Elementary School
Dunaújváros, 2001-2009

Lánczos Kornél Grammar School
Székesfehérvár, 2009-2013

University of Szeged, Faculty of Sciences and Informatics
Molecular-bionics engineering BSc 2013-

Languages:

English: TELC B2 Complex

German: TELC B2 A-type

Recent Research team: University of Szeged, Institute of Medical Physics and Informatics
, Nano-bionics team

Supervisor : László Nagy, PhD, associate professor , Tibor Szabó, PhD Student

Research topics: Production of reaction centre sensitized organic solar cells

Production of Dye-sensitized solar cells

Artificial retina model with reaction centre protein

Major Scientific Students' Associations presentations (all:8):

XXXII. National Conference of Scientific Students' Association Conference (OTDK), Biophysics
Division, 2.nd Award (2015)

XXXII. OTDK, Classical and Environmental Physics Division, 3.rd Award (2015)

XXXI. OTDK, Biotechnology Division, Special Award, Innovation Award

Number of international conference posters: 5

Number of conference presentations: 3



Publications

Nyerki Emil: Examination of strong magnet field's effect on plants' growth (10. Szentágothai János Transzdiszciplináris Konferencia konferenciakötet)

Tibor Szabó, **Emil Nyerki**, Tünde Tóth, Melinda Magyar, Endre Horváth, Klára Hernádi, Balázs Endrődi, Csaba Visy, László Forró and László Nagy: Generating photocurrent by nanocomposites based on photosynthetic reaction centre protein, Physica Status Solidi, bírálat alatt.

Book Chapter:

T. SZABÓ, **E. NYERKI**, T. TÓTH, S. CSIKÓS, M. MAGYAR, SZ. TORMA AND L. NAGY (2014) Measuring electric signals of photosynthetic reaction centers-nanohybride systems in dried conditions, COST PHOTOTECH Training School, Advanced Laser Spectroscopy in Green Phototechnology, Program and Book of Abstracts, October 18-23, 2014, Szeged, Hungary, pp. 99-102

Awards:

6. Youth Bolyai Award

MATEHETSZ "Felfedezettjeink" 2015 competition: Special Award

SZTE Talent Point Excellence list: Bronze Award(2015)

József Sófi Scholarship : Special Award (2015)

Stephen W. Kuffler Research Scholarship (2015)

Research interests:

My research interests are really wide, I am interested in nearly everything what is interdisciplinary. My recent topic is a mixture of physics, biology and chemistry, in a complex bio-nanocomposite. In addition I am interested in molecular biology and nanotechnology. Because of molecular bionics engineering I always follow the progression of bionic implants, and in the future if I have a change I would like to build some implants.

During my grammar school years I had research topic from plant biology and radiophysics, then when I started the university changed to biophysics, because I think it has a greater potential. In my first topic there was the production of organic solar cells, sensitized by photosynthetic reaction centre protein, my recent topic is that from the solar cell I would like to make an artificial retina model. In my future, beside this project, I would like to build a cancer diagnostic machine, where I can combine all the techniques, that I have learned from my so far topics.

Hobbies:

Reading (science-fiction and fantasy novels, Ancient greek and roman novels), writing (poems, novels)