

Martin Nikl - curriculum vitae (www.fzu.cz/~nikl)



- 1976 - 1981 study of solid state physics at the Technical University in Prague, Faculty of Nuclear Physics and Physical Engineering, graduated summa cum laude in 1981 (title Ing.)
- 1982 - 1986 CSc.(equiv. PhD.) studies in Institute of Physics
- from 1986 – appointed in the Institute of Physics, CSAV as junior scientist
- from 1995 promoted to the senior scientist level
- from 1997 promoted to the leading senior scientist level, head of Luminescence Laboratory
- from 2008 the Chair of the Dept. of Optical Materials
- from 2012, the member and vice-chair of the Institute Board, Deputy Director for targeted research
- from 07-2015, assoc. Prof., Czech Technical University
- from 2017 Chair of the Institute Board

Field of interest

Luminescence and scintillation materials, energy transfer and storage phenomena in scintillation mechanism, physics of defects, luminescence of excitons, nanoaggregates, quantum dots.

Awards and evaluations:

- The Prize of Czechoslovak Spectroscopic Society for young scientists in 1991
- The Prize of the AS CR for outstanding scientific results, 2003: „PbWO₄ scintillator for high energy physics. Physical description and material optimisation“.
- Praemium Academiae 2013, awarded by the President of Academy of Science of CR.
- Technological Agency 2015 – Prize in category “The most original project”

Selected invited stays abroad:

- Fellowship from ICTP Programme for Training and Research in Italian Laboratories, ICTP, Trieste, Italy, February 93 - August 94, IROE del CNR, Florence, Italy.
- Visiting professor position at the Institute of Material Research, Tohoku University, Sendai, Japan, April-September 2001; June-July 2013.
- Visiting professor (part time position) at Dept. of Materials Science, University of Milan-Bicocca, Milan, Italy, March 2006-February 2008
- Visiting Professor/Distinguished Visiting Professor position at Department of Physics, KMUTT, Bangkok, Thailand, 1 month in each year 2011-2015
- Visiting professor position (CAS award) at the Shanghai Institute of Ceramics, CAS, May 11-July 11, 2014; July&November 2015

Awarded grants and projects, collaborations, patent applications:

- Coordinator of ten domestic grant projects awarded by the Grant Agency of the Academy of Sciences and the Czech Science Foundation in the period 1995-2017. All the finished projects (10) evaluated as excellent.
- Co-director and director of four NATO Linkage grants awarded in 94-95, 97-98, 01-02, 11-13 periods, collaboration among teams in Italy, Czech Republic, Poland, Ukraine and Estonia.
- Co-director in NATO Science for Peace grant no. 973510-Scintillators (2000-2003), five participating teams in Italy, Czech Republic and Estonia

- Holder of ten projects from Ministry of Education, Youth and Sports, CR, program KONTAKT: bilateral international collaborations with Japan and China in 1998-2016.
- Coordinator of EU INTAS project (2005-7), no. 04-78-7803, seven participating teams in Ukraine, Russia, Estonia, Italy and Czech Republic.
- Partner and leader of Work Package in: (i) EU FP7 project “Luminet”, FP7-PEOPLE-2012-ITN, no. 316906 (2012-2016); (ii) H2020 project INTELUM, H2020-MSCA-RISE-2014, no.368921 (2015-2018) and (iii) COST TD1401 project (2015-2018). Partner in H2020 project TAKEMI5, H2020-ECSEL-2016-2-IA, no. 737479 (2017-2019).
- Coordinator of H2020 project ASCIMAT, H2020-TWINN-2015 (2016-2018)
- Collaboration with foreign and domestic (CRYTUR, Envinet) industry, partner in two application projects of Technological Agency of CR
- Eleven national patents and two PCT applications (WO2016127959 (A1) and WO2017/059832) awarded in the field of scintillation materials

Pedagogical activities

Member of PhD study councils F-6 and F-14 at FMP Charles university. Member of PhD study council “Nuclear Engineering” and lecturer for Master and PhD students at FNSPE, Czech Technical university. Supervised 10 Diploma students and 10 PhD students from Czech universities so far.

Other activities:

Chairman of international conferences LUMDETR2003, ISLNOM-4 and LUMDETR2018 held in September 2003, June 2006 and September 2018, respectively, in Prague, Czech Republic. Vice chairman of ICDIM2012 conference, June 2012, Santa Fe, USA.

Member of the Advisory committees of LUMDETR, SCINT, ISLNOM, Eurodim and ICDIM international conferences.

Member of the Editorial Board of the Optical Materials and Radiation Measurement (Elsevier) journals. Referee for journals of Wiley-VCh, Elsevier, IoP UK, APS and ACS Publishers.

As of April 2019, author and co-author of 753 papers in the refereed impacted international journals, 57 papers in non-impacted journals, nine chapters in books and 58 papers in conference proceedings. Author and co-author of 45 invited keynote and plenary lectures at International Conferences. The publications received more than 11800 citations (Scopus, auto-citations excluded), Hirsch factor, H=60.