

CV of Peter I. Richter

Personal data

Name Peter I. Richter
Position professor
Current institution Department of Atomic Physics,
Budapest University of Technology and Economics
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Date of birth 1950

Education

1973 Diploma in physics, ELTE, Hungary
1989 Dr.Sci., Hung. Acad. Sci. Hungary

Employment

1973-75	researcher	MOM
1975-76	visiting scientist	Florida State University
1978-	professor	BME, Hungary
1989- several times	visiting scientist	Florida State University, Max Planck Inst. Quant. Opt. , Siemens ZFE, U.Karlsruhe, U.Buffalo, U. Columbus, T.U.Helsinki, T.U. Berlin,Thomson

Awards and prizes

Schmid prize, Jedlik prize, Eotvos prize, Szechenyi prof. prize, Szilard prof. prize

Research interest

- Laser physics
- Optics
- Applied spectroscopy

Teaching activity

- Quantum mechanics and solid state physics
- Laser Physics

Students supervised

- Msc students:
- PhD students: Kertesz Krisztian 2008, Beleznai Szabolcs 2009

Memberships and professional service

- R. Eotvos Physical Soc.
- European Physical Soc.
- European Optical Soc.
- SPIE
- OSA
- Memb. of the editorial board of Field Anal. Chem.

Grants, fellowships, projects 2000-

Projects with Philips, GE, Siemens, Samsung, Thales, Furukawa, Lasram, Optilink, Femtonics, Wigner, ELI, Semilab, Bosch, PPG, Bayer, Mediso, etc.

GVOP 30271-45, 31636-30, 29439-45, 30273-45, 29837-41, 33790-30, 28940-48, 31120-30, 25932-41, 29387-41, NKFP 25932-41, CLOSYS26622-48

Languages

English (master), German (master reading, conversational speaking)

Scientific impact

352 papers in refereed journals

26 patents

100+ conference talks and seminars

Total number of independent citations: 670

Complete list of publications:

https://vm.mtmt.hu/search/slist.php?nwi=1&initd=1&ty_on=1&url_on=1&cite_type=2&orderby=3D1a&lang=1&location=mtmt&stn=1&AuthorID=1344256

Five selected publications

- Richter P, Doppler Lidar Signal from Random Backscattering through Turbulent Paths Christian Doppler: Life and Work, Principle and Applications Living Edition, (2007) pp. 139-149. , 11 p.
- Maák Pál, Veress Máté, Katona Gergely, Szalay Gergely, Csákányi Attila, Richter Péter, Kaszás Attila, Rózsa Balázs, Two and three dimensional two-photon microscopy based on high energy ultrashort laser pulses, LEI'2011 Conference, 14-18 November 2011, Szeged, Hungary (2011)
- Beleznai Sz, Mihajlik G, Maros I, Balázs L, Richter P, High frequency excitation waveform for efficient operation of a xenon excimer dielectric barrier discharge lamp, JOURNAL OF PHYSICS D-APPLIED PHYSICS 43:(1) (2010)
- Maak P, Takacs T, Barocsi A, Kollar E, Richter P, Thermal behavior of acousto-optic devices: effects of ultrasound absorption and transducer losses, ULTRASONICS 51:(4) pp. 441-451. (2011)
Patrik Gáboros, Imre Péczeli, László Kocsányi, Péter Richter, Damage optimization of LIBS analysis of glass samples, LIBS-2012, Luxor, Egyiptom, 2012. szept. 29 - okt. 4. (2012)