Vadim V. Lozovoy (CV)

Academic specialist, Department of Chemistry, Michigan State University.
Chemistry Bldg, 578 S Shaw Lane, Room B4, East Lansing MI, 48824 USA
lozovoy@msu.edu, https://www2.chemistry.msu.edu/faculty/dantus/members.html
Born in Russia, Russian and US citizen.

EMPLOYMENT

2006-2015   Academic Specialist, Michigan State University, East Lansing, USA

2002-2005   Visiting Assistant Professor, Michigan State University, East Lansing, USA

2001-2002   Senior Research Associate, Michigan State University, East Lansing, USA.

1999-2001   Research Associate, Michigan State University, East Lansing, USA.

1991-1998   Senior Research Associate, Institute of Chemical Physics, Moscow, Russia.

1989-1990   Research Associate, Institute of Physical Chemistry, Moscow, USSR.

1985-1988   Postgraduate. Novosibirsk State University, Dep. of Physics, Novosibirsk, USSR.

1980-1985   Research Assistant**.** Institute of Chemical Kinetics and Combustion, Novosibirsk, USSR.

EDUCATION
1989   Ph.D. Physics and Math. Russian Academy of Sciences, Novosibirsk, USSR**.**
1982   MS, Physics. Novosibirsk State University, Novosibirsk, USSR.

TEACHING

2015   **"**Ultrashort Shaped Laser Pulses" CEM988, Michigan State University, USA.

2011   **"**Femtosecond Lasers and Applications" CEM988, Michigan State University, USA.

2008   **"**Femtosecond Lasers and Chemistry" CEM988, Michigan State University, USA.

1996   **"**Femtosecond spectroscopy", Moscow Institute of Physics and Technology, Russia.

1984   **"**Electrodynamics" Novosibirsk State University, USSR.

1980   **"**Mechanics" Novosibirsk State University, USSR.

R&D

2003-2015   Scientific consulting at Biophotonic Solutions Inc. ()

PUBLICATIONS as on Nov 2015

>130 publications,

> 3,700 citations (Google Scholar)

h-index is 34 (34 publications with >34 citations, Google Scholar).

i10-index 68 (68 publications with >10 citations, Google Scholar)

PATENTS as on Nov 2015

16 issued US patents, >10 pending US and international patents.

>30 invention disclosures

RESEARCH AREAS

lasers;

nano-optics;

Fourier optics;

nonlinear optics;

photo chemistry;

radiation chemistry;

laser control of chemical reaction;

multi-photon spectroscopy and microscopy.

EXPERIMENTAL SKILLS

femtosecond shapers;

fluorescence, absorption, polarization, four-wave-mixing, spectroscopies;

intra-cavity amplification, intra-cavity absorption spectroscopies;

photon counting optical spectroscopies;

femtosecond, gas, solid and fiber lasers;

electron spin resonance spectroscopy;

pico and nanosecond pulse radiolysis;

time resolved positron annihilation;

supersonic and molecular beams;

vacuum technique;

chromatography;

quartz blowing.

TEORETICAL SKILLS

quantum physics and nonlinear optics;

solution of differential equations;

quantum information theory;

genetic learning algorithms;

Monte Carlo modeling.

SOFTWARE

General programming using languages as Assembler, Basic, Fortran, Pascal, LabView;

Scientific programming using Origin, MathCad, MatLab, Mathematica;

Technical programming using AutoCad, Zemax, Canvas, CorelDraw.