

Curriculum Vitae

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Gimė:	1976 rugsėjo 10 Vilniuje
1994	Baigė M.Daukšos vidurinę mokyklą Vilniuje
1994-1998	Bakalauro studijos Vilniaus universiteto Fizikos fakultete
1998.01-1998.06	Stażuotė Amsterdamo Vrije Universiteit pagal ES TEMPUS programą.
1998-2000	Magistro studijos Vilniaus universiteto Fizikos fakultete. Kartu dirbo inžinieriumi Fizikos instituto Molekulinių darinių laboratorijoje.
2000 - 2005	Doktorantūra Amsterdamo Vrije Universiteit Biofizikos katedroje. 2002,2003 - stažuotės Ecole Polytechnique de Lausanne, Lozanoje, Šveicarijoje. Doktorantūros vadovas – prof.dr. Rienk van Grondelle. 2005.02.01 apgynė daktaro disertaciją “Biological photoreactions explored by multi-pulse ultrafast spectroscopy”
2005 - 2007	Mokslo darbuotojas ir lektorius Vilniaus universiteto Fizikos fakulteto Kvantinės elektronikos katedroje. 2006 – stažuotė UC Davis, Kalifornija, JAV
2007 - 2016	Docentas ir vyresnysis mokslo darbuotojas Vilniaus universiteto Fizikos fakulteto Kvantinės elektronikos katedroje.
2016 - ...	Profesorius ir vyriausias mokslo darbuotojas Vilniaus universiteto Fizikos fakulteto Kvantinės elektronikos katedroje

Kalbų mokėjimas: lietuvių (gimtoji), rusų (l.geras), anglų (l.geras), olandų (geras), prancūzų (pradmenys), lotynų (pradmenys).

Pomėgiai: Literatūra, krepšinis, gamta

Šeimyninė padėtis: vedęs, žmona Giedrė, dvi dukros: Saulė (g. 2008) ir Aistė (g. 2010) ir sūnus Martynas (g. 2015).

Dalyvavimas ES projektuose

1. EU FP6 Laserlab-Europe – dalyvis, transnacionalinės prieigos užtikrinimas.
2. EU FP7 Laserlab-Europe II – dalyvis, transnacionalinės prieigos užtikrinimas.
3. EU FP7 Laserlab-Europe III – dalyvis, transnacionalinės prieigos užtikrinimas.
4. EU struktūrinių fondų projektai Vilniaus Universitete (daugiau kaip 5 projektai) – dalyvis (mokomųjų laboratorijų atnaujinimas, dėstomų dalykų medžiagos rengimas).
5. EU FP7 Extreme Light Infrastructure - dalyvis.

Dalyvavimas Lietuvos mokslo projektuose

1. Kelių tyrimų projektų, finansuotų, Lietuvos Mokslo tarybos, dalyvis (ULTRAGREITI FOTOCHROMAI, MOLEKULINIAI PERJUNGIKLIAI, VP1-3.1-ŠMM-07-K-02-006).

Vadovavimas projektams:

1. Kietakūnis femtosekundinis lazeris akies ragenos chirurgijai (STROFA) – finansuotas Lietuvos valstybinio mokslo ir studijų fondo, 2007-2009, Vilniaus universiteto Fizikos fakulteto vykdytų tyrimų dalies vadovas.
2. Lazeriai oftalmologinei chirurgijai (kartu su UAB „MGF Šviesos konversija“), finansuotas LR Ūkio ministerijos pagal programą „Intelektas LT“ 2009-2012, mokslinių tyrimų dalies vadovas.

Publikacijos:

1. Barzda, V.; Vengris, M.; Calkoen, F.; van Grondelle, R.; van Amerongen, H. Reversible light-induced fluorescence quenching - an inherent property of LHCII. In *Photosynthesis: Mechanisms and Effects*; Garab, G., Ed.; Kluwer Academic Publishers: Dordrecht, 1998; pp 337.
2. Barzda, V.; Vengris, M.; Valkunas, L.; van Grondelle, R.; van Amerongen, H. Generation of fluorescence quenchers from the triplet states of chlorophylls in the major light-harvesting complex II from green plants. *Biochemistry* 2000, **39**, 10468. CA WOS accession No.: ISI:000089066600014
3. Kietis, P.; Vengris, M.; Valkunas, L. Electrical-to-mechanical coupling in purple membranes: Membrane as electrostrictive medium. *Biophysical Journal* 2001, **80**, 1631. CA WOS accession No.: ISI:000167797800002
4. Larsen, D. S.; Papagiannakis, E.; van Stokkum, I. H. M.; Vengris, M.; Kennis, J. T. M.; van Grondelle, R. Excited state dynamics of beta-carotene explored with dispersed multi-pulse transient absorption. *Chemical Physics Letters* 2003, **381**, 733. CA WOS accession No.: ISI:000186855500034
5. Larsen, D. S.; Vengris, M.; van Stokkum, I. H. M.; van der Horst, M. A.; Cordfunke, R. A.; Hellingwerf, K. J.; van Grondelle, R. Initial photo-induced dynamics of the photoactive yellow protein chromophore in solution. *Chemical Physics Letters* 2003, **369**, 563. CA WOS accession No.: ISI:000181079000008
6. Salverda, J. M.; Vengris, M.; Krueger, B. P.; Scholes, G. D.; Czamoleski, A. R.; Novoderezhkin, V.; van Amerongen, H.; van Grondelle, R. Energy transfer in light-harvesting complexes LHCII and CP29 of spinach studied with three pulse echo peak shift and transient grating. *Biophysical Journal* 2003, **84**, 450. CA WOS accession No.: ISI:000183067300039
7. Kennis, J. T. M.; Larsen, D. S.; van Stokkum, N. H. M.; Vengris, M.; van Thor, J. J.; van Grondelle, R. Uncovering the hidden ground state of green fluorescent protein.

- Proceedings of the National Academy of Sciences of the United States of America* 2004, **101**, 17988. CA WOS accession No.: ISI:000226102700021
8. Larsen, D. S.; van Stokkum, I. H. M.; Vengris, M.; van der Horst, M. A.; de Weerd, F. L.; Hellingwerf, K. J.; van Grondelle, R. Incoherent manipulation of the photoactive yellow protein photocycle with dispersed pump-dump-probe spectroscopy. *Biophysical Journal* 2004, **87**, 1858. CA WOS accession No.: ISI:000223668500043
 9. Larsen, D. S.; Vengris, M.; van Stokkum, I. H. M.; van der Horst, M. A.; de Weerd, F. L.; Hellingwerf, K. J.; van Grondelle, R. Photoisomerization and photoionization of the photoactive yellow protein chromophore in solution. *Biophysical Journal* 2004, **86**, 2538. CA WOS accession No.: ISI:000220567600056
 10. Larsen, O. F. A.; Somsen, O. J. G.; van Stokkum, I. H. M.; de Weerd, F. L.; Vengris, M.; Aravindakumar, C. T.; van Grondelle, R.; Geacintov, N. E.; van Amerongen, H. Ultrafast spectroscopy on 2-aminopurine DNA oligonucleotides provides new insights into mechanism of fluorescence quenching. *Biophysical Journal* 2004, **86**, 312A. CA WOS accession No.: ISI:000187971201605
 11. Larsen, O. F. A.; van Stokkum, I. H. M.; de Weerd, F. L.; Vengris, M.; Aravindakumar, C. T.; van Grondelle, R.; Geacintov, N. E.; van Amerongen, H. Ultrafast transient-absorption and steady-state fluorescence measurements on 2-aminopurine substituted dinucleotides and 2-aminopurine substituted DNA duplexes. *Physical Chemistry Chemical Physics* 2004, **6**, 154. CA WOS accession No.: ISI:000187438000024
 12. Papagiannakis, E.; Larsen, D. S.; van Stokkum, I. H. M.; Vengris, M.; Hiller, R. G.; van Grondelle, R. Resolving the Excited State Equilibrium of Peridinin in Solution. *Biochemistry* 2004, **43**, 15303. CA WOS accession No.:
 13. Papagiannakis, E.; Larsen, D. S.; Vengris, M.; van Stokkum, I. H. M.; van Grondelle, R. Multi-Pulse Transient Absorption and Carotenoid Excited-State Dynamics: *b*-Carotene. In *Ultrafast Phenomena XIV*; Kobayashi, T., Okada, T., Kobayashi, T., Nelson, K. A., De Silvestri, S., Eds.; Springer: Berlin, 2004; pp 592.
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 15. Vengris, M.; van Stokkum, I. H. M.; He, X.; Bell, A. F.; Tonge, P. J.; van Grondelle, R.; Larsen, D. S. Ultrafast excited and ground-state dynamics of the green fluorescent protein chromophore in solution. *Journal of Physical Chemistry A* 2004, **108**, 4587. CA WOS accession No.: ISI:000221546100004
 16. Vengris, M.; van Stokkum, I. H. M.; He, X.; Bell, A. F.; Tonge, P. J.; van Grondelle, R.; Larsen, D. S. Ultrafast excited and ground-state isomerization dynamics of the Green Fluorescent Protein chromophore in solution. In *Ultrafast Phenomena XIV*; Kobayashi, T., Okada, T., Kobayashi, T., Nelson, K. A., De Silvestri, S., Eds.; Springer: Berlin, 2004; pp 610.
 17. Papagiannakis, E.; Larsen, D. S.; Vengris, M.; van Stokkum, I. H. M.; van Grondelle, R. Multi-pulse transient absorption and carotenoid excited-state dynamics: beta-carotene. In *Ultrafast Phenomena Xiv*; Kobayashi, T., Okada, T., Kobayashi, T., Nelson, K. A., DeSilvestri, S., Eds., 2005; Vol. **79**; pp 592.
 18. Vengris, M. Biological Photoreactions Explored By Multi-Pulse Ultrafast Spectroscopy. PhD, Vrije Universiteit, 2005.
 19. Vengris, M.; Larsen, D. S.; van der Horst, M. A.; Larsen, O. F. A.; Hellingwerf, K. J.; van Grondelle, R. Ultrafast Dynamics of Isolated Model Photoactive Yellow Protein Chromophores: "Chemical Perturbation Theory" in the Laboratory. *Journal of Physical Chemistry B* 2005, **109**, 4197. CA WOS accession No.:

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22. Palacios, M. A.; Standfuss, J.; Vengris, M.; van Oort, B. F.; van Stokkum, I. H. M.; Kuhlbrandt, W.; van Amerongen, H.; van Grondelle, R. A comparison of the three isoforms of the light-harvesting complex II using transient absorption and time-resolved fluorescence measurements. *Photosynthesis Research* 2006, **88**, 269. CA WOS accession No.: ISI:000241055300004
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24. Papagiannakis, E.; van Stokkum, I. H. M.; Vengris, M.; Cogdell, R. J.; van Grondelle, R.; Larsen, D. S. Excited-state dynamics of carotenoids in light-harvesting complexes. 1. Exploring the relationship between the S-1 and S* states. *Journal of Physical Chemistry B* 2006, **110**, 5727. CA WOS accession No.: ISI:000236294300079
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40. Jailaubekov, A. E.; Vengris, M.; Song, S. H.; Kusumoto, T.; Hashimoto, H.; Larsen, D. S. Deconstructing the Excited-State Dynamics of beta-Carotene in Solution. *Journal of Physical Chemistry A* 2011, **115**, 3905. CA WOS accession No.: WOS:000289697500028
41. Morkunas, V.; Ruksenas, O.; Vengris, M.; Gabryte, E.; Danieliene, E.; Danielius, R. DNA Damage in Bone Marrow Cells Induced by Ultraviolet Femtosecond Laser Irradiation. *Photomedicine and Laser Surgery* 2011, **29**, 239. CA WOS accession No.: WOS:000289074200005
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43. Toliautas, S.; Sulskus, J.; Valkunas, L.; Vengris, M. Quantum chemical studies of photochromic properties of benzoxazine compound. *Chemical Physics* 2012, **404**, 64. CA WOS accession No.: WOS:000308087500013
44. Dagiliene, M.; Martynaitis, V.; Vengris, M.; Redekas, K.; Voiciuk, V.; Holzer, W.; Sackus, A. Synthesis of 1',3,3',4'-tetrahydrospiro chromene-2,2'-indoles as a new class of ultrafast light-driven molecular switch. *Tetrahedron* 2013, **69**, 9309. CA WOS accession No.: WOS:000326361300018

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52. Stankeviciute, K.; Pipinyte, I.; Stasevicius, I.; Vengelis, J.; Valiulis, G.; Grigonis, R.; Vengris, M.; Bardauskas, M.; Giniunas, L.; Balachninaite, O.; Eckardt, R. C.; Sirutkaitis, V. FEMTOSECOND OPTICAL PARAMETRIC OSCILLATORS SYNCHRONOUSLY PUMPED BY Yb:KGW OSCILLATOR. *Lithuanian Journal of Physics* 2013, **53**, 41. CA WOS accession No.: WOS:000317697200004
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Pranešimai konferencijose

1999 – European Science Foundation (ESF) Workshop ‘Interactions Between Chlorophylls and Carotenoids in Photosynthesis’, Antalia, Turkey.

2000 – IVth winterschool ‘Ultrafast Spectroscopy in Chemistry and Biology’, Borgafjäll, Sweden.

2001 - The 12th International Congress on Photosynthesis. Brisbane, Australia.

2002 – Laser Application in Life Sciences, Vilnius, Lithuania.

2003 – International workshop on photoreceptors, Universiteit van Amsterdam, Amsterdam, the Netherlands.

2004 - 14th International Conference on Ultrafast Phenomena, Niigata, Japan.

2005 - International Conference organized by the EU Excellence Centre for Photoactive Materials, Lesko, Poland

2007 - Lithuanian National Physics Conference

2008 – International school 'Methods in microscopy and image analysis', Vilnius, Lithuania

2009 – Lithuanian National Physics Conference

2009 – International conference „Northern Optics 2009“, Vilnius, Lithuania.

2009 – 2nd Congress of Baltic Association of Laser Medicine, Vilnius, Lithuania.

2010 – Laser Applications in Life Sciences 2010, Oulu, Finland

2011 - Electronic and Related Properties of Organic Systems, ERPOS-12, Vilnius, Lithuania

2011 - Lithuanian National Physics Conference

2013 - Processes in Isotopes and Molecules - 2013, Cluj-Napoca, Romania

2014 – 247th ACS Meeting, Dallas, USA.

2015 – LTΦ international physics conference, Vilnius, Lithuania.

2015 – Open Readings, Vilnius, Lithuania (Invited).

2016 – Nordic Femtochemistry, Orenas Castle, Sweden

2017 - Lithuanian National Physics Conference

2017 - Winter College on Optics (invited lecture), Trieste, Italy