



Dr. Smijesh N.

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Contact

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Personal Details

DOB: 04-04-84
Citizenship: Indian
Language proficiency: English, Malayalam

Research Interests

Attosecond Physics
High Harmonic Generation
Intense Light-Matter Interaction
Laser-Produced Plasmas
Nonlinear Optics.

Total Journal Publications

18

Total Conference Publications

25

Education

Ph.D.	National Institute of Technology Calicut, Kerala, India Doctor of Philosophy in Physics	2014
M. Tech.	University of Kerala, Thiruvananthapuram, Kerala, India Master of Technology in Electronics and Communication (Optoelectronics and Optical Communication)	2009
M. Sc.	Mahatma Gandhi University Kottayam, Kerala, India Master of Science in Physics	2006
B. Sc.	University of Kerala, Thiruvananthapuram, Kerala, India Bachelor of Science in Physics	2004

Research experience

Jan 18- Oct 19	Postdoctoral Researcher Department of Physics, Umeå University, Sweden
Mar 15- Nov 17	Postdoctoral Researcher Centre for Quantum Dynamics, Griffith University, Australia
Oct 14- Feb 15	Research Associate Raman Research Institute, Bangalore, India
May 10- Jul 11	Project Assistant Raman Research Institute, Bangalore, India

Teaching experience

Jan 07- Nov 07	Guest Lecturer Department of Physics, Catholicate College, Kerala, India
Oct 07- Mar 07	Post Graduate Teacher Shalom Public School (ICSE syllabus) Chennerkara, Pathanamthitta, Kerala, India

Professional Experience

2017	Local organizing committee member International Symposium on Intense Short Wavelength Processes in Atoms and Molecules (ISWAP-2017)
Since 2015	Reviewer Science Direct, AIP and OSA journals

Other Experiences

2019-20 **Hackathon Officer**
Mahatma Gandhi University Kottayam, India

Thesis Supervision

2018 **Master Project** Completed
Contrast improvement of few cycle laser pulses

Invited Talks

21-02-18 **Optimisation of laser produced plasma for high-order harmonic generation**
Department of Physics, Umeå University, Umeå, Sweden

14-11-17 **High-order harmonic generation and Attosecond Physics**
Department of Optoelectronics, University of Kerala, Thiruvananthapuram, India on 14 Nov 2017

10-09-14 **Spectroscopy and optical time of flight studies of laser produced metal plasmas: short pulse and ultrafast excitations**
Raman Research Institute, Bangalore, India

Academic Achievements

2015 **Griffith University Postdoctoral Fellowship (GUPF) grant**

25-02-'13-
15-03-'13 **Best poster award**
Fifth SERB school on Tokamaks and magnetized Plasma Fusion, held during at the Institute for Plasma Research, Gandhinagar, India

2007 **GATE (Graduate Aptitude Test in Engineering)**

Top Five Journal Publications

2019 **Contrast improvement of sub-4 fs laser pulses using nonlinear elliptical polarization rotation**
N Smijesh *et. al.*, Optics letters, 44 (16), 4028

2018 **Plasma plumes produced by laser ablation of Al with single and double pulse schemes**
N Smijesh *et. al.* Optics letters, 43 (24), 6081

2016 **Spatio-temporal optimization of a laser produced Al-plasma: Generation of highly ionized species**
N Smijesh *et. al.* Phys. Plasmas 23, 113104

2014 **Acceleration of neutrals in a nanosecond laser produced nickel plasma**
N Smijesh *et. al.*, Phys. Plasmas 21, 123507

2013 **Emission dynamics of an expanding ultrafast-laser produced Zn plasma under different ambient pressures**
N Smijesh *et. al.*, J. Appl. Phys. 114, 093301

