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Adjunct Research fellow, Centre for Quantum Dynamics Griffith University, Australia

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Full-time faculty at the School of Pure and Applied Physics, Mahatma Gandhi University, Kerala India. A versatile researcher with more than 10 years experience in the field of intense light-matter interaction, including laser produced plasmas, high harmonic generation, instrumentation and attosecond physics.

Education

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

Research Interests and Skills

Research Interests : Intense Light-Matter Interaction, Ultrafast optical physics, High order Harmonic Generation, Attosecond Physics, Pump-probe Spectroscopy, Imaging, Nonlinear Optics, Laser Produced Plasmas & Diagnostics

> Skills : Ultrafast laser systems (Regenerative& Multipass), Pulse shaping and few-cycle pulses, pumpprobe spectroscopy, fast imaging, Instrumentation, Attosecond pulse generation and characterization, EUV spectrometers and Velocity Map Imaging Spectrometers, Time of Flight Spectrometers

Softwares: MATLAB, SIMION, AutoCAD, LabVIEW

Research Experience

Postdoctoral Fellow, Extreme Light Infrastructure, Dolni Brezany, Czech Republic Current > Development and implementation pump-probe experiments in XUV and X-ray science within the De-January 2022 partment of Structural Dynamics of the ELI Beamlines > Operation and development of laser beam transport and diagnostics in the E1 hall and its supporting laboratories > Operations and maintenance of the laser sources in the department of Structural Dynamics > Support users during user operation and user assisted commissioning > Participate in the development of the general experimental capabilities of ELI Beamlines Department of Structural Dynamics > Participate in the procurement of ELI Beamlines Department of Structural Dynamics experimental equipment > Coherent Diffractive Imaging and broadband ptychography.

XUV-NIR pump probe XUV-X-Ray pump probe Ultrafast laser systems

| October 2019 | Postdoctoral Researcher, Relativistic Attosecond Physics Laboratory, Department of Physics, Umeå University, Sweden |
|-------------------------------|---|
| January 2018 | Attosecond XUV-XUV pump-probe spectroscopy at 120 eV photon energies Simulation and Design of Velocity Map Imaging Spectrometer (VMI) Multi-photon processes using attosecond pulses Attosecond science Extreme-light matter interaction VMI design |
| November 2017 | Postdoctoral Research Fellow, Australian Attosecond Science Facility, Centre for Quantum Dynamics, Griffith University, Australia |
| March 2015 | > Design and development of system for laser-produced plasma based high-harmonic generation > Re-designing custom-made XUV spectrometer High-harmonic generation Laser-produced plasma Optical emission spectroscopy Plume imaging XUV spectroscopy Vacuum systems |
| February 2015 October 2014 | Postdoctoral Fellow, Light and Matter Physics (LAMP), Raman Research Institute, Bangalore, India > Experiments on laser plasmas from solid targets > Lab and laser system management Intense light-matter interaction Laser produced plasmas Technical writing |
| July 2011 | Project Assistant, Ultrafast and Nonlinear Optics lab, Light and Matter Physics Group, Raman Research Institute, Bangalore, India |
| May 2010 | > Experiments on laser plasmas from solid targets > Z-scan set up and LabView Program to run the experiment intense light-matter interaction [laser produced plasmas] [Z-scan] [LabView] |

Teaching Experience

| Ongoing | Assistant Professor, School of Pure and Applied Physics, Mahatma Gandhi University, Kottayam, Kerala, India-(On leave) |
|-------------------------------|---|
| October 2019 | > Teaching : Nuclear Physics, Electrodynamics, Laser Physics > Research : Intense light-matter interaction Academia Teaching Research |
| Ongoing | Adjunct Faculty, Institute for Integrated programs and Research in Basic Sciences (IIRBS), Mahatma Gandhi University, Kottayam, Kerala, India |
| July 2020 | Teaching : Solid-state physics, Non-linear optics Academia Teaching |
| November 2007 January 2007 | Lecturer (Full-time Guest), Department of Physics, Catholicate College, Pathanamthitta, Kerala, India > Teaching UG and PG students |
| | Subjects Mathematical physics Electronic instrumentation Electrodynamics Modern physics Electronics |

₱ Professional Membership

| Life Member | Plasma Science Society of India (PSSI) |
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| Life Member | Indian Laser Association (ILA) |

🖒 Responsiblities held

| October 2021 | Student advisor, OPTICA students chapter of Mahatma Gandhi University, Kerala, India |
|-------------------|--|
| 12 - 17 July 2021 | <i>Co-Ordinator</i> , Lecture Series on "History and philosophy of science" by Prof. Rajan Gurukkal, organized by the Internal Quality Assurance Cell (IQAC) of the Mahatma Gandhi University, Kottayam, India |
| June 2020-ongoing | E-bulletin (in-charge), Mahatma Gandhi University, Kottayam, Kerala, India |
| October 2020 | Department coordinator (School of Pure & Applied Physics) for Internal Quality Assurance Cell |

(IQAC), Mahatma Gandhi University, Kottayam, Kerala, India

| October 2020 | Examination overseer, S. N. College, Kannur, Kerala, India. |
|--------------|---|
| August 2020 | Research consultancy and extension committee for NAAC assesment, Internal Quality Assurance Cell (IQAC), Mahatma Gandhi University, Kottayam, Kerala, India |
| 2019-2020 | Hackathon officer, Mahatma Gandhi University, Kottayam, Kerala, India |
| July 2017 | Local organizing committee member, International Symposium on Intense Short Wavelength Processes in Atoms and Molecules (ISWAP-2017),Brisbane. |
| Ongoing | Reviewer : Science Direct, Optica (formerly OSA) and American Institute of Physics journals |

? Theses Supervision

| April 2026 (tentative) | Ph.D. , "Intense light-matter interaction in laser produced plasmas" (<i>Ongoing</i>) |
|------------------------|--|
| April 2025 (tentative) | Ph.D. , "Polarization rotation of ultrafast laser pulses on propagation through plasma" (<i>On-going</i>) |
| December 2021 | M. Phil Project , "Analysis of optical emission spectra obtained from laser produced plasmas" (<i>Completed</i>) |
| September 2021 | Masters Project , "Plume analysis of laser produced plasma for morphological studies" (<i>Completed</i>) |
| August 2021 | Masters Project , "Optical emission spectroscopy of laser produced plasma - Analysis using MATLAB" (<i>Completed</i>) |
| September 2020 | Masters Project , "Analysis of Optical Emission Spectroscopy of Laser Produced Plasmas" (<i>Completed</i>) |
| September 2020 | Masters Project, "Review on Tunneling times" (Completed) |
| June 2020 | Masters Project, "Analysis of Closed Aperture Z-scan - A numerical study" (Completed) |
| June 2020 | Masters Project, "Study of nonlinear properties of Indium oxide using Z-scan" (Completed) |
| December 2018 | Masters Project, "Contrast improvement of few cycle laser pulses" (Completed) |
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Achievements/Awards

- 2021 Mobility of Researchers of Institute of Physics of the Czech Academy of Sciences 2 (MOBILITY FZU 2) : No.CZ.02.2.69/0.0/0.0/18-053/0016627
- 2015 Griffith University Postdoctoral Fellowship (GUPF) grant
- 2013 Best poster award Fifth SERB school on Tokamaks and magnetized Plasma Fusion, held during at the Institute for Plasma Research, Gandhinagar, India
- 2007 Qualified GATE (Graduate Aptitude Test in Engineering)

● Invited Talks

| 08/03/2023 | <i>Ultra-sensive high harmonic spectroscopy</i> , Institute of Physics of the Czech Academy of Sciences, ELI-Beamlines, Dolni Brezany. |
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| 10/01/2023 | Ultrafast and attosecond AMO science, Raman Research Institute, Bangalore, India |
| 02/07/2022 | Introduction to attosecond physics , St. Joseph's College Devagiri, Calicut, Kerala, India |
| 28/06/2022 | Contrast improvement of sub-4 fs laser pulses using nonlinear elliptical polarization rotation , Institute of |
| | Physics of the Czech Academy of Sciences, ELI-Beamlines, Dolni Brezany. |
| 19/11/2021 | <i>Ultrafast lasers in physics</i> , Recent trends in photonics, International webinar series, CMS college, Kottayam, Kerala, India. |
| 07/10/2021 | <i>High Harmonic Generation</i> , RICERCA 2021-National Conference, St. Joseph's College for Women, Alap- puzha, Kerala, India |
| 15/09/2021 | <i>Femtoseconds to Attoseconds</i> , National Level Faculty Development Programme on Advanced Science and Technology - 2021, St. Berchmans College, Changanachery, Kerala, India |
| 13/11/2020 | <i>Ultrafast Science and its Opportunities</i> , International Webinar on Advances in Materials and nanostructures -IWAM - 2020, NSS Hindu College, Changanachery, Kerala, India |
| 16/09/2020 | Femtoseconds to attoseconds, Webinar, Catholicate College, Pathanamthitta, Kerala, India |
| 24/02/2020 | Walk with a scholar program, T. K. Madhava Memmorial College, Nangiarkulangara, Haripad, Kerala State, India |
| 13/01/2020 | Walk with a scholar program, Devamatha College, Kuruvilangad, Kottayam, Kerala, India |
| 16/11/2019 | Information session for higher secondary students, Government Girls Higher Secondary School, Vaikom, Kerala, India |
| 21/02/2018 | <i>Optimisation of laser produced plasma for high-order harmonic generation</i> , Department of Physics, Umeå University, Umeå, Sweden |
| 14/11/2018 | <i>High-order harmonic generation and Attosecond Physics</i> , Department of Optoelectronics, University of Ke- rala, Thiruvananthapuram, Kerala, India |

10/09/2014 Spectroscopy and optical time of flight studies of laser produced metal plasmas : short pulse and ultrafast excitations, Raman Research Institute, Bangalore, India

📽 Training undertaken

| 06 Sept 2021 05 October 2021 | 171st Induction Programme, Kerala University, Thiruvananthapuram, Kerala, India > Organized by UGC-HRDC, Kerala University, Kerala. |
|---------------------------------|---|
| 03 February 2020 | Workshop on Outcome based education, Mahatma Gandhi University, Kottayam, Kerala, India |
| 07 February 2020 | > Organized by Internal Quality Assurance Cell (IOAC), Mahatma Gandhi University with the technical |
| ···· , | support of Teaching and Learning Centre, Indian Institute of Technology (IIT), Madras |
| 20 January 2020 | Workshop on Research Methodology for the college/University teachers, College Development |
| | Council, Mahatma Gandhi University, Kottayam, Kerala, India |
| 24 January 2020 | > Short-term workshop (5 days) |

Journal Publications

- 2023 High-intensity attosecond beamline for XUV pump XUV probe measurements with photon energies up to 150 eV, A. A. Muschet, N. Smijesh, A. De Andres, P. Fischer, R. Salh and L. Veisz, Manuscript preparation underway
- 2022 A comprehensive review on amplification of laser pulses via Stimulated Raman Scattering and Stimulated Brillouin Scattering in plasmas, Renju Miriam Cheriyan, Nikhil Varghese, R. S. Sooraj, Kavya H. Rao, N. Smijesh, Plasma 5 (4), 499-539
- 2022 An easy technique for focus characterization and optimization of XUV and soft x-ray pulses, A.A. Muschet, A. De. Andres, **N. Smijesh**, L. Veisz, Applied Sciences **12**, 5652,2022
- 2020 Effect of double pulse irradiation on the morphology of a picosecond laser produced chromium plasma, Kavya H. Rao, **N. Smijesh**, D. Chetty, I. V. Litvinyuk, R. T. Sang, Phys. Plasmas **27**, 083518
- 2019 Contrast improvement of sub-4 fs laser pulses using nonlinear elliptical polarization rotation, **N Smijesh**, X. Zhang, P. Fischer, A. A. Muschet, R. Salh, A. Tajalli, U. Morgner, L. Veisz, Optics letters, **44** (16), 4028-4031
- 2018 Plasma plumes produced by laser ablation of Al with single and double pulse schemes, **N. Smijesh**, Kavya H. Rao, D. Chetty, I. Litvinyuk, R. T. Sang, Optics Letters, **43** (24), 6081
- 2018 Time-resolved optical emission spectroscopic studies of a picosecond laser produced Cr plasma, Kavya H. Rao, **N. Smijesh**, N. Klemke, R. Philip, I. Litvinyuk, R. T. Sang, Phys. Plasmas **25** (6), 063505
- 2017 Optical emission and dynamics of aluminum plasmas produced by ultrashort and short laser pulses, Pranitha Sankar, Jijil. JJ Nivas, **N. Smijesh**, G. K. Tiwari, R. Philip, J. Anal. At.Spectrom. **32**, 1177
- 2016 Spatio-temporal optimization of a laser produced Al-plasma : Generation of highly ionized species, **N. Smijesh**, Kavya H. Rao, N. Klemke, R. Philip, I. Litvinyuk and R. T. Sang, Phys. Plasmas **23**, 113104
- 2016 Ultrafast laser produced zinc plasma : Stark broadening of emission lines in nitrogen ambient, Kavya H. Rao, **N. Smijesh**, J.J.J. Nivas, Reji Philip, Phys. Plasmas **23**, 043503
- 2016 Influence of pulse width on the laser ablation of Zinc in nitrogen ambient, **N. Smijesh**, Kavya H. Rao, Reji Philip, Appl. Phys. A **122**(4), 460
- 2015 Dynamics of neutrals and ions in an ultrafast laser produced Zn plasma, **N. Smijesh**, Kavya H. Rao and Reji Philip, Phys. Plasmas **22**, 033509
- 2014 Acceleration of neutrals in a nanosecond laser produced nickel plasma, **N. Smijesh**, K. Chandrasekharan, R. Philip, Phys. Plasmas **21**, 123507
- 2014 Time of flight emission spectroscopy of a laser produced expanding nickel plasma : short pulse and ultrafast excitations, **N. Smijesh**, K. Chandrasekharan, J. C. Joshi, R. Philip, J. Appl. Phys. **116**, 013301
- 2013 Emission dynamics of an expanding ultrafast laser produced Zn plasma under different ambient pressures, N. Smijesh, R. Philip, J. Appl. Phys. **114**, 093301
- 2013 Organic dye impregnated poly(vinyl alcohol) nanocomposite as an efficient optical limiter : structure, morphology and photophysical properties, S. Sreeja, S. Sreedhanya, **N. Smijesh**, R. Philip, C. I. Muneera, J. Mater. Chem. C **1**, 3851
- 2013 Size-dependent optical properties of Au nanorods, S.L Smitha, K.G. Gopchandran, **N. Smijesh**, R. Philip, Progress in Natural Science Material International **23** (1), 36
- 2012 Nonlinear optical properties of composite napthalocyanine thin films with nanocrystalline morphology, N. S. Panicker, **N. Smijesh**, R. Philip, C.S. Menon, Mat. Lett. **89**, 188
- 2012 Electrochemical and Nonlinear Optical Studies of new DA Type pi-Conjugated Polymers Carrying 3, 4-Benzyloxythiophene, Oxadiazole, and 3, 4-Alkoxythiophene Systems, M. S. Sunitha, A. V. Adhikari, K. A. Vishnumurthy, **N. Smijesh**, R. Philip, Chem. Lett. **41**, 234
- 2010 Synthesis, characterization and nonlinear optical properties of 2-[(E)-2-(4-ethoxyphenyl) ethenyl]-1methylquinolinium 4-substituted benzene sulfonate compounds, P. Ruanwas, T. Kobkeatthawin, S. Chantrapromma, H. Fun, R. Philip, N. Smijesh, M. Padaki, A. M. Isloor, Synthetic Metals **160** (7), 819
- 2010 Two-Photon Absorption and optical limiting in Tristhiourea Cadmium Sulphate, S. Dhanuskodi, T. C. Sabari Girisun, **N. Smijesh**, R. Philip, Chem. Phys. Lett. **486**, 8083

Conference Publications

| February 7-8, 2020 | Sub-10 nm metal oxide nanoparticles for non-linear applications, P. K. Nideesh, Hari Krishnan A. P., Kavya H. Rao, N. Kalarikkal, N. Smijesh , <i>National Conference on Recent Advances in Chemical Sciences (RACS-2020)</i> , Mahatma Gandhi University, Kottayam, Kerala, India |
|-------------------------------------|---|
| October 6-11, 2019 | Contrast improvement of few cycle laser pulses using nonlinear ellipse rotation, N Smijesh , X. Zhang, P. Fischer, A. A. Muschet, R. Salh, A. Tajalli, U. Morgner, L. Veisz, <i>Ultrafast Optics XII</i> , Bol, Croatia |
| December 9-13, 2018 | Angle resolved X-ray emission spectroscopy of laser produced metal plasmas and alloys, Kavya H. Rao, N. Smijesh , P. Sankar, R. Philip, I. V. Litvinyuk and R. T. Sang, 23 rd Australian Institute of Physics Congress (AIP Congress 2018), Perth, Western Australia |
| July 28-August 4, 2018 | Changes in the morphology of a picosecond laser produced plasma by single and double pulse irradia- tions, Kavya H. Rao, N. Smijesh , D. Chetty, I. V. Litvinyuk and R. T. Sang, <i>Siegman International School on</i> <i>Lasers</i> , Island of Hven, Backafallsbyn, Sweden |
| November 26-December 01, 2017 | Characterization of laser produced plasma using fast imaging, Kavya H. Rao, N. Smijesh , I. V. Litvinyuk and R. T. Sang, <i>Conference on Optics, Atoms and Laser Applications (IONS KOALA 2017)</i> , The University of Queensland, Queensland, Australia |
| July 26-August 1, 2017 | Optimization of laser plasma dynamics towards high order harmonic generation applications, N. Smijesh , Kavya H. Rao, D, Chetty, R. T. Sang, I. V. Litvinyuk, <i>30th International Conference on Photonic Electronic and Atomic Collisions (ICPEAC XXX)</i> ,Cairns, Queensland, Australia |
| July 26-August 1, 2017 | Plume dynamics of a laser produced plasma : Single and double pulse schemes, Kavya H. Rao, N. Smijesh , D. Chetty, I. V. Litvinyuk and R. T. Sang, <i>30th International Conference on Photonic Electronic and Atomic Collisions (ICPEAC XXX)</i> , Cairns, Queensland, Australia |
| December 4-8, 2016 | Characterization of nanosecond laser produced aluminium plasma for high-order harmonic generation, Kavya H. Rao, N. Smijesh , N. Klemke, R. Philip, I. Litvinyuk and R. T. Sang, <i>Joint 13th Asia Pacific physics conference and 22nd Australian Institute of Physics congress</i> , Brisbane Australia |
| December 4-8, 2016 | Optimization of picosecond laser generated micro-plasma towards the generation of bright, coherent EUV source, N. Smijesh , Kavya H. Rao, R. T. Sang and I. Litvinyuk, <i>Joint 13</i> th Asia Pacific physics conference and 22 nd Australian Institute of Physics congress, Brisbane Australia |
| December 4-8, 2016 | Comparative study of single and double pulse laser generated plasma, Dashavir Chetty, N. Smijesh , Kavya H. Rao, Robert Sang, Igor Litvinyuk, <i>Joint 13th Asia Pacific physics conference and 22nd Australian Institute of Physics congress</i> , Brisbane Australia |
| November 27-December 2, 2016 | Investigation of ps laser produced Cr plasma : Single vs double pulse method, D. Chetty, Kavya H. Rao, N. Smijesh , R. T. Sang, I. V. Litvinyuk, <i>Conference on Optics, Atoms and Laser Applications (IONS KOALA 2016)</i> , Melbourne, Australia |
| November 7-9, 2016 | Laser produced highly ionized Aluminum plasma for high harmonic generation, N. Smijesh , Kavya H. Rao, N. Klemke,R.Philip, I. Litvinyuk and R. T. Sang, <i>International Workshop on EUV and Soft X-Ray Sources (2016 Source Workshop)</i> , Amsterdam, The Netherlands |
| November 7-9, 2016 | Optimization of Laser-produced Plasma towards the Generation of High-order Harmonics, N. Smijesh , Kavya H. Rao, D. Chetty, R. T. Sang and I. Litvinyuk, <i>International Workshop on EUV and Soft X-Ray Sources (2016 Source Workshop)</i> , Amsterdam, The Netherlands |
| November 23-27, 2015 | Optical emission spectroscopic studies of a picosecond laser produced plasma : Single pulse and double pulse method, Dashavir Chetty, N. Smijesh , N. Klemke, Kavya H. Rao, D. Laban, JamesWood, D. Kielpinski, R. T. Sang, I. V. Litvinyuk, <i>Conference on Optics, Atoms and Laser Applications (IONS KOALA 2015)</i> , Auckland, New Zealand |

| October 12-16, 2015 | A coherent x-ray source from plasma using high-order harmonic generation, Dane Laban, Smijesh Achary , Nicolai Klemke, James Wood, Dashavir Chetty, David Kielpinski, Igor Litvinyuk, Robert Sang, Bulletin of the American Physical Society 60, 68th Annual Gaseous Electronics Conference/9th International Conference on Reactive Plasmas/33rd Symposium on Plasma Processing, Honolulu, Hawaii |
|-----------------------------------|--|
| October 12-16, 2015 | Spectroscopic studies of Cr VI species in a laser produced plasma, Nicolai Klemke, Smijesh Nadarajan , Dane Laban, James Wood, Dashavir Chetty, David Kielpinski, Igor Litvinyuk, Robert Sang, Bulletin of the American Physical Society 60, 68th Annual Gaseous Electronics Conference/9th International Conference on Reactive Plasmas/33rd Symposium on Plasma Processing, Honolulu, Hawaii |
| December 20-22, 2014 | Ultrafast laser-induced plasmas for nanoparticle generation : comparison with conventional chemical routes, N. Smijesh , Kavya H. Rao, P. Sreekanth, Reji Philip, <i>International Conference on Frontiers in Nano Science, Technology and Applications (FINSTA 2014)</i> , Sri Sathya Sai Institute of Higher Learning Prashantini-layam, Andhra Pradesh, India |
| December 8-11, 2014 | Expansion dynamics of laser produced Zn plasma : Short pulse and ultrafast excitation, N. Smijesh , Anitta R. Thomas, Kavya H. Rao, Reji Philip, 29 th National Symposium on plasma science and Technology (Plasma 2014), M. G University, Kottayam, Kerala, India. |
| December 8-11, 2014 | Short and ultrafast laser produced Aluminum plasma : A fuence dependent study, Pranitha Sankar, Jijil JJ Nivas, N. Smijesh , Reji Philip, 29 th National Symposium on plasma science and Technology (Plasma 2014), M. G University, Kottayam, Kerala, India. |
| November 6-8, 2014 | Optical Time of flight measurements of laser produced metal plasmas : Short pulse and ultrafast excita- tions, N. Smijesh , K. Chandrasekharan, Reji Philip, <i>24th Swadeshi Science Congress</i> , Tirur, Kerala, India. |
| October 30-November 1, 2014 | Acceleration of neutrals in an expanding laser produced Zn plasma, N. Smijesh , Kavya H. Rao and Reji Philip, <i>DAE-BRNS Theme meeting on ultrafast science (UFS)- 2014</i> , Manipal University, Karnataka, India. |
| March 19-21, 2014, | Time-resolved spectroscopy of CI and CII line emissions from an ultrafast laser produced solid graphite plasma, N. Smijesh , K. Chandrasekharan, R. Philip, AIP conf. Proc. 1620, 517 (2014), <i>Light and its interactions with matter</i> , Calicut, Kerala, India. |
| January 8-11, 2014 | Influence of laser pulse width on the emission dynamics of laser produced Zn plasma in nitrogen ambient, N. Smijesh , K. Chandrasekharan, Reji Philip, <i>National Laser Symposium- 22</i> , Manipal, Karnataka, India. |
| May 23-25, 2011 | Indigo carmine dye polymer nanocomposite films for optical limiting applications, S. Sreeja, S. Mayadevi, S. R. Suresh, P. G. L. Frobel, N. Smijesh , R. Philip, C. I. Muneera, AIP Conf. Proc. 1391, 618 (2011), <i>Optics : Phenomena, Materials, Devices, and Characterization : OPTICS 2011 : International Conference on Light</i> , Kerala, India. |
| November 25-28, 2007 | Thermal diffusivity measurements of dental resin using photo-acoustic effect, N. Smijesh , L. K. Joseph, A. Kurien, V. P. N. Nampoori, IEEE-ICIAS-2007 (DOI:10.1109 ICIAS.2007.4658397), <i>International Conference on Intelligent and Advanced Systems</i> , Kuala Lumpur, Malaysia. |

📽 References

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