PROFILE

Name: Dr. Laxmi Priya S
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Date of birth: 21/10/1987
Religion: Hindu
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Research Publications

(1) **S. Laxmi Priya**, V. Kumar, Fumiya Kurokawa, Isaku Kanno, " Transverse Piezoelectric properties of {100}-oriented PLZT[x/65/35] thin films". Materials Chemistry and Physics, 151(2015)308-311. ISSN: 0254-0584.

(2) **S. Laxmi Priya,** V. Kumar, Shogo Nishio, Isaku Kanno, "Composition dependence of transverse piezoelectric properties of preferentially {110}-oriented (1-x) PIN-xPT thin films" Journal of Alloys and Compounds, 688(2016), 863-867, ISSN: 0925-8388.

(3) **S. Laxmi Priya,** V. Kumar, Shogo Nishio, Isaku Kanno, "Improved transverse piezoelectric properties in {110}-oriented B-site acceptor doped PLZT (8/65/35) thin films", Integrated Ferroelectrics, 176(2016) 210-219, ISSN:1058-4587.

(4) **S. Laxmi Priya**, V. Kumar, Takuya Teramoto, Isaku Kanno, "Transverse piezoelectric properties of {110}-oriented PLZT thin films", Integrated Ferroelectrics,Issue 1, pages 113-120(2018),vol.192,ISSN: 1058-4587.

(5) **S. Laxmi Priya,** V. Kumar, Isaku Kanno, "Influence of Zr/Sn ratio on the Transverse Piezoelectric Coefficient |e31,f| in Lanthanum doped Lead Zirconate Titanate Stannate thin films" Integrated Ferroelectrics, Issue 1, pages 86-93, 2019, ISSN: 1058-4587.

(6) K. M. Rajesh, **S. Laxmi Priya,** S. Sugunan, "Photocatalytic Water splitting by Modified titania for Hydrogen Production using Visible light Irradation" Indian Journal of Research, vol 4, issue 11, 2015. ISSN: 2250-1991.

(7) "Synthesis and Characterisation of N and NS co-doped nanot titania photocatalyst and its anti-bacterial study of Escherichia coli", Rajesh K. M., Hari Sankar H.S., Anitha P. K., **Laxmi priya S**., Sugunan S., Indian Journal of Applied Research, Vol 4, Issue 12, 2014. ISSN: 2249-555X.

(8) **S. Laxmi Priya**, E.A. Jose, K. M. Rajesh, "Photochemical Investigation of the antibacterial

activity of essential oils of Premna latifolia and Lantana camara" International Journal of Chromatorgaphy, Photon 113(2015) 130-139. ISJN: 5319-4847.

(9) K.M. Rajesh, **S. Laxmi Priya**, S. Rijith, K. Jithesh, V. Arun and S. Sugunan, "Synthesis and Characterization of crystalline Graphene-Titania nanocomposites as efficient photocatalysts for pollution control", Asian Journal of Chemistry, vol. 35, No. 11 (2023).

(10) **S. Laxmi Priya**, N. Manoj, , K. Leon Prasanth, , E. Nissam, S. Sugunan, and K.M. Rajesh, "Combination of Sonochemical Synthesis and Calcination of Graphene-TiO_2 Nanocomposite for Efficient Photocatalytic Degradation of Methyl Orange Dye", Asian Journal of Chemistry, vol. 36, 1927-1932, No. 8 (2024).

(11) Rajesh K. M, Bhagyalakshmy M, Lakshmi K. P, Malavika K. M, Nandhana M. P, **Laxmi Priya S**, Plant Extract as Green Synthesis Agent for Silver Nanoparticle Synthesis and Evaluation of Their Antibacterial Activity,International Journal of Advanced Multidisciplinary Application, Volume 2 Issue 3, ISSN No: 3048-9350 (2025)

(12) **Laxmi Priya S**, Kingsley Syam V, Anandakrishnan P.M., Nirjaladevi M.S., Abhishek C.G., Alwish Sathyaram, Sreelakshmi K, Rajesh K.M., Dye degradation and antibacterial activity studies of green synthesized CaO nano particlesfrom mint leavesforming composites with Barium Strontium Titanate, International Journal of Scientific Resaerch and Technology, 3(3), ISSN: 2394-7063(2026)

(13) Rajesh K.M., Arsha C A, Anju C G, Ansalna P A, **Laxmi Priya S**, Sreelakshmi K, Enhancement of visible light activity of Titanium Dioxide via banana peel bio-waste modification for photocatalytic and antibacterial applications, Open Nano Research Journal, vol 28, 2352-9520 (2026).

(14) Rajesh K.M., Devanandha M B, Hena C H, **Laxmi Priya S**, Manoj, Sreelakshmi K, Photocatalytic and antibacterial study of Zinc Oxide/Biochar nanocomposite in visible region: Synthesis and characterisation, Journal on Communication, vol 21, Issue 3, 1000-436X (2026).

(15) K. Sreelakshmi, **S. Laxmi Priya**, K.M. Rajesh, N. Manoj, Peael Augustine, Manoj Parameswaran, Synthesis of undoped and A-site lutetium donor-doped barium strontium titanate by the sol-gel method for wastewater remediation and tunable energy storage capacitor applications, Journal of nanoparticle research, 28:254 (2026).

Papers /posters presented

(1) S. Laxmi Priya, Phytochemical Investigation of Premna Latifolia and Lantara Camara, Effective traditional ecofriendly medicinal plants against Menopone in the national seminar on Current Trends in Chemistry CTric 2017 held at CUSAT.

(2) S. Laxmi Priya, Antiferroelectric phase stability and its influence on the transverse piezoelectric characteristics of tin doped Lead Lantanum Zirconate Titanate thin films in

International conference on Chemistry and Physics of Materials organised by Research and PG department of Chemistry at St. Thomas College (Autonomous), Thrissur in 2018.

(3) S. Laxmi Priya, Chromatographic and sectroscopic investigation of mono and sesqui terpenoids in leaf extractof plants effective against Eomenacanthus, International conference on advance research, INSIGHT 2024, MES Keveeyam college, Malappuram, Kerala (2024).

(4)S. Laxmi Priya, Synthesis, dielectric and ferroelectric properties of $BaTiO_3$, Recent trends in material science and allied areas (RTMS 2025), MMMSN Trusts College, Shoranur (2025).

(5) S. Laxmi Priya, An investigation on the electrical properties of Lead Indium Niobate-Lead Titanate thin films near morphotropic phase boundary, International conference on advances in science and technology, ICAST 2026, St. Aloysius college, Elthuruth, Thrissur (2026).

Orientation/Refresher courses and FDP's attended

Name of Course	Venue	Duration (From-To)	Sponsoring Agency
Online Refresher Course in Chemistry for Higher Education Faculty	Swayam ARPIT Online course offered by Sri Guru Tegh Bahadur Khalsa College, Delhi	01/11/2018 to 28/02/2019	MHRD, Govt of India
Orientation Programme	UGC-Human Resourse Development Centre, University of Calicut	06/01/2020 to 25/01/2020	
Online Refresher Course in Chemistry for Higher Education	Swayam ARPIT Online Course Certificate	1/12/2020 to 31/3/2021	MHRD,SWAYAM Platform
One week Faculty Development Programme	Online	22/7/2021- 28/7/2021	Teaching Learning Centre, Ramanujan College, University of Delhi.

One week Faculty Development Programme	Online	25/1/2022 -31/1/2022	Guru Angad Dev Teaching Learning Centre, a Centre under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of Ministry of Education, SGTB Khalsa College, University of Delhi.
One Week Online Faculty Development Programme	Online	3/2/2022-9/2/2022	UGC- Scheme For Trans disciplinary Research For India's Developing Economy (STRIDE), Mahatma Gandhi University, Kottyam in association with Sree Sankara Vidyapeetom College, Valayanchirangara
One Week Online Faculty Development Programme	Online	23/11/23-29/11/23	Teaching learning Centre, Ramanujan College, University of Delhi under PMMMNMTT Scheme.
One week NEP 2020 orientation and sensitization programme	Online	1/4/25 -9/4/25	Maharshi Dayanand Saraswati University, Ajmer, UGC-Malaviya mission teacher training centre (MMTTC)

Seminars attended

(1) One day national seminar on "Emerging trends in materials science", organised by department of Chemistry MPMM SN Trusts College, Shoranur on 20 February 2020.

(2) Directorate of Collegiate Education (DCE), Govt. of Kerala sponsored two day national seminar on "Recent Trends in Materials Science (NSRTMS-2019)" organised by Department of Chemistry Government College, Chittur, Palakkad on 5-6 December 2019.

(3)Directorate of Collegiate Education (DCE), Govt. of Kerala sponsored two day national

seminar on “Emerging Frontiers in Materials Chemistry (EFMC-2019)” organised by Department of Chemistry B. J. M. Government College, Chavara, Kerala on 28-29 November 2019.

(4) Directorate of Collegiate Education (DCE), Govt. of Kerala sponsored two day national seminar on “ Molecules to Supramolecules: A Synthetic Perspective” organized by Post graduate and research Department of Chemistry, Government Victoria College, Palakkad on 31/10/2019 and 01/11/2019.

(5) KSCSTE sponsored two day workshop on “Research Methodology, Writing Practices, Language and Soft skills” organized by Department of Chemistry, MPMM SNT College Shoranur on 06-07 February 2019.

(6) International conference on Chemistry and Physics of Materials organised by Research and PG department of Chemistry at St. Thomas College (Autonomous), Thrissur in 2018.

(7) KSCSTE sponsored seminar in connection with “World Ozone Day Celebrations -2018” organized by Department of Chemistry, MPMM SNT College Shoranur on 18 September 2018.

(8) UGC, DST, KSCSTE sponsored two day National seminar on Current Trends in Chemistry CTric 2017 organised by department of Applied Chemistry, CUSAT on 3-4 February 2017.