RAMAIAH UNIVERSITY OF APPLIED SCIENCES

ORI

Research Insights @ RUAS

Office of Research and Innovation

January 2026
Issue 9

PATENTS - 2026	
	JAN
Filed	3
Published	-
Granted	2
*Courtesy: OMS Patents Database	

PUBLICATIONS - 2026	
	JAN
Scopus	22
Total	36
Google Scholar	31
Citations	45961
h-index	71
* Researgence 2.0 reports	

EXTRA-MURAL GRANTS APPLIED - 2026		
Faculty	Jan	In Lakhs
RINER	-	-
FDS	-	-
FLAHS	3	50.00
FNS	-	-
RCPT	-	-
ORI	-	-
RMC	-	-
ALC	-	-
FPH	5	53.62
FHMCT	-	-
SSS	-	-
FET	3	70.00
FMC	1	0.01

ACADEMIC EVENTS

The Centre of AI for Social Good (CAISG), RUAS, successfully conducted a Winter School Program on 28 January 2026 at Ramaiah Vidyanikethan for Class 10 students. The program featured hands-on, interdisciplinary capsule sessions on Responsible AI, mindfulness, gender sensitization, applied economics, and constitutional values, delivered by faculty from Data Sciences, Psychology, Sociology, Economics, and Law. The interactive sessions, supported by student volunteers, created an engaging and impactful learning experience. Participants were awarded certificates upon successful completion of the program.

The LEADS Next Gen Centre, RUAS, successfully conducted Catalyst Insight – Leadership Talk Series 6.0 on 30 January 2026 at the Faculty of Management & Commerce. The session featured Mr. Ananth Mallya, CEO & Founder, QuanTech Origin, who delivered an engaging talk on *"From Hiring for Roles to Hiring for Capabilities: The Strategic Leadership Shift in Talent Acquisition."* The interactive session highlighted emerging leadership perspectives, capability-based hiring, and industry expectations, fostering meaningful discussions on employability and strategic HR transformation among students and faculty.

In celebration of National Youth Day, the NSS, Ramaiah Technology Campus (RTC), RUAS, in collaboration with the Associate Dean Students' Wellbeing, IIC RUAS, IEEE SB RUAS, and the Rotaract Club of Bangalore Warriors, organized a session on "Maintaining Work-Life Balance" on 30 January 2026. The interactive session focused on promoting personal well-being and effective management of academic and professional life, with insights shared by faculty and wellness experts. E-certificates were provided to all participants.

ACADEMIC EVENTS

The Centre for National Security Studies (CNSS), RUAS, organized CNSS Strategic Perspectives featuring a talk on “China’s Cognitive Warfare & India’s Response Matrix” on 30 January 2026. The session provided strategic insights into contemporary security challenges and India’s response frameworks, engaging students and faculty in informed discussions on national security issues.

The Centre of AI for Social Good (CAISG), MSRUAS, organized an expert talk titled “From Marketing Analytics to Social Intelligence” on 24 January 2026 as part of the *Algorithms & Beyond* knowledge exchange series. The session, delivered by Ms. Raahat Shethwala, Program & Analytics Manager, Lenovo Affinity, Dubai, explored the evolving role of Analytics and AI in shaping social systems, emphasizing inclusion, fairness, and responsible technology adoption.

A workshop on “Best Practices in Health Manuscript Writing” with a special emphasis on the use of Artificial Intelligence in scientific writing was conducted on 28 January 2026. The session was led by Ms. Natasha Gulati, Team Lead – Customer Success (SA & SEA), and covered key aspects of the research and publication process, including methodology, results, discussion, conclusions, common reasons for manuscript rejection, and responsible use of AI tools. The workshop witnessed active participation from postgraduate students, PhD scholars, and health sciences faculty across Ramaiah institutions.

ACADEMIC EVENTS

The LEADS Next Gen Centre, RUAS, organized Catalyst Insight – Leadership Talk Series 5.0 on 23 January 2025 at the Faculty of Management & Commerce. The session, themed *"From Campus to Corporate: Building Future Leaders,"* featured Mr. Hemanth Kumar V, CEO, Bharat Career Connect Solutions LLP, who shared practical leadership insights and industry perspectives to inspire and empower future-ready professionals.

Final-year Aerospace Engineering students from Ramaiah University of Applied Sciences (RUAS) secured First and Third prizes at the national-level aeromodelling competition held in Chennai from 9–11 January 2026 as part of *Vadiva's Tech & Design Fest 2026*, organized in collaboration with the Institute of Aeronautics, Astronautics and Aviation (IAAA). The achievement highlights RUAS's strong emphasis on experiential learning and excellence in aerospace engineering, with students demonstrating outstanding skills in aircraft design, fabrication, and flight performance.

The Department of Chemistry, RUAS, organized a guest lecture on "3D Printing of Batteries" on 22 January 2026 at Ramaiah Technology Campus. The session was delivered by Prof. Dr. Stephane Panier, Professor, UPJV, France, an expert in advanced 3D printing technologies. The lecture highlighted emerging techniques in 3D printing and their applications across engineering, materials science, healthcare, and energy storage, offering valuable insights to students, faculty, and researchers from multiple disciplines.

ACADEMIC EVENTS

The University, in association with AIU, successfully hosted the South Zone Vice Chancellors' Meet on *"Promoting Entrepreneurship & Startups in HEIs"* on 20–21 January 2026 at Ramaiah Medical College. The Inaugural Function was graced by Shri Thaawar Chand Gehlot, Hon'ble Governor of Karnataka. The event brought together academic leaders to share insights and foster collaboration in promoting entrepreneurship in higher education.

The PhD Induction Programme for the January 2026 batch was conducted successfully by Office of Research & Innovation, with participation from 43 newly admitted research scholars and 4 scholars from NIAS (August 2025 batch). The programme featured sessions on the PhD journey at RUAS, researcher's perspective, and supervisor's perspective, along with a brief introduction to IP rights and the IP filing process at RUAS. The Office of Research & Innovation expresses sincere thanks to Dr. Sahadev, Dr. Sivapragasam, Dr. Bharath (Dean–FPH), ORI staff members, and senior research scholars for their valuable support and contributions.

CNSS organized a talk titled "Russia–Ukraine War" by Col. Rajesh Pawar (Retd.), Indian Army veteran and renowned war reporter associated with *Aaj Tak* and *India Today*. The session offered firsthand insights into modern warfare, strategic implications, laws of war, human rights, and the realities of reporting from active conflict zones.

ACADEMIC EVENTS

The Department of Aerospace and Automotive Engineering organized an expert talk by Prof. Rajkumar Pant, Department of Aerospace Engineering, IIT Bombay, titled *"Design and Development of Lighter-Than-Air Systems: Making Balloons Fly and Float."* The session highlighted the principles, design, fabrication, and applications of LTA systems, showcasing indigenous research at IIT Bombay, student-driven innovations, and internship opportunities.

A Meet and Greet session with the Hon'ble Vice-Chancellor was organized for Principal Investigators of Extramural Grants, Sponsored Research Coordinators, and PhD Coordinators on 9 January 2026 at the RTC Campus, Peenya. The interaction aimed to acknowledge ongoing externally funded research and encourage continued academic and research engagement.

Ramaiah University of Applied Sciences (RUAS) signed a Memorandum of Understanding (MoU) with the Central Manufacturing Technology Institute (CMTI) on 9 January 2026 to strengthen collaboration in research and innovation. The MoU recognizes CMTI as an approved Research Centre of RUAS, enabling enrolment of scholars in PhD and research-based postgraduate programmes, and promotes joint research, collaborative R&D projects, shared facilities, and joint supervision of research scholars.

ACADEMIC EVENTS

Faculty members and students from the Departments of CSE, EEE, and Mechanical & Robotics Engineering participated in the IIT Madras Open House held on 3 January 2026. The visit provided exposure to cutting-edge research and facilities in areas such as AI, high-performance computing, EVs, smart grids, semiconductors, digital twins, robotics, autonomous systems, and drone technologies. Faculty also visited the IITM Research Park, interacting with Centres of Excellence and startup ecosystems.

Team ADHVIK from RUAS secured Second Place at the Boeing National Aeromodelling Competition 2025–26, held as part of Shaastra 2026 at IIT Madras. This achievement reflects the team's technical excellence, innovation, perseverance, and strong teamwork.

The Departments of Aerospace & Automotive Engineering and Electrical Engineering, Faculty of Engineering & Technology, RUAS, organized an Assignment Exhibition and Technical Presentation on 6 January 2026 as part of the course *Control Systems Engineering and Laboratory*. The event showcased undergraduate projects on control-system-based analysis and design for aircraft and automobile applications, along with an invited technical talk titled *"Wiring Harness in Aircraft and Missile Systems"* by Mr. Siddu S. K., Technical Manager, Tiranga Aerospace.

FACULTY ACHEIVEMENTS

1. Dr. M. Mohamed Shabi from Faculty of Pharmacy completed the Six-Day Professional Development Program (PDP) on ICH GCP E6 (R3), Biomedical Ethics, and ICMR Clinical Trial Guidelines held between 17 January to 1 February 2026. The program offered comprehensive training on updated Good Clinical Practice standards, ethical principles, and regulatory requirements, strengthening participants' competencies in conducting ethical and compliant clinical research.

2. Participated in the IAIO Expert Insights session on Breast Cancer held on 22 January 2026. The session featured an expert-led discussion on advances in early detection, diagnostics, treatment approaches, personalized therapy and multidisciplinary management, offering valuable evidence-based insights for enhancing clinical understanding and practice.

3. Participated in the Biocon Academy event titled "Artificial Intelligence in Life Sciences", held on 22 January 2026 as part of *The BioEdge Webinar Series: Science. Skills. Communication.* The session was insights into the expanding role of AI in life sciences, including applications in research, drug discovery, data analytics, automation, and decision-support systems.

4. Attended the lecture titled "Key Principles of Primary Screening in Preclinical Studies" held on 23 January 2026. The session provided foundational insights into the methodologies, scientific principles, and essential considerations involved in primary screening during preclinical research.

5. Participated in the Elsevier workshop titled "Best Practices in Health Manuscript Writing", organized by the Office of Research & Innovation (ORI), RUAS, on 28 January 2026. The session, offered comprehensive insights into scientific writing, research protocols, literature review, manuscript preparation, journal selection, and common reasons for rejection.

6. Attended a session on medical devices held on 31 January 2026. The program provided a foundational understanding of medical device classification, applications, and regulatory aspects. The session highlighted essential considerations related to safety, quality, and innovation, helping participants appreciate the growing role of medical technology in healthcare.

We are happy to congratulate Dr. Chanchala, Faculty of Media & Communication (FMC), on securing an Industrial Consultancy Project focused on the development of a policy framework for the Media Industry. This achievement reflects her expertise and meaningful engagement with industry.

1. Dr. Mamatha. G. Hegde from Department of Fashion Design, FAD, RUAS conducted a hands-on workshop on *"Shibori Techniques"* on 13 January 2026. Students learned traditional tie-dye methods using natural dyes under expert guidance. The workshop enhanced creativity, practical skills, and awareness of sustainable textile practices, providing valuable experiential learning.

FACULTY ACHEIVEMENTS

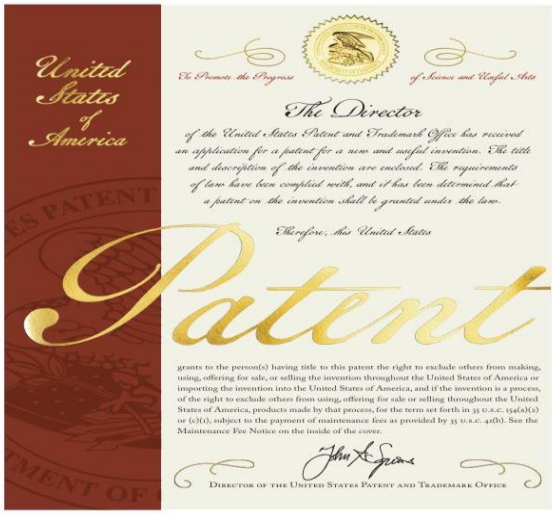
2. On 22 January 2026, students and staff of the Department of Fashion Design visited Shell Apparels, a denim manufacturing and processing unit. The visit offered practical exposure to the complete denim production process—from raw materials to finishing and packaging. Students also gained insights into effluent treatment and sustainable water management practices.

3. A practical workshop on *"Saree Draping Techniques"* was conducted on 30 January 2026 for fashion design students. Experts demonstrated various traditional draping styles and fabric-handling techniques. The hands-on session helped students acquire essential practical skills and a deeper appreciation of Indian textile traditions.

4. A seminar on *"Portfolio Guidance"* was held on 28 January 2026 by Ms. Val Palmer from Central Saint Martins, University of the Arts London. The session focused on portfolio development, conceptual sketching, graphic tools, research boards, and storytelling techniques. The interactive seminar enhanced students' creative and problem-solving skills.

5. Fashion Design students participated in the National-Level *Navyug Khadi Mahotsav 2026* held on 31 January 2026 in Bangalore. Students showcased Khadi sarees and accessories through innovative draping styles. The event provided exposure to choreography, modeling, and event management, enhancing students' practical and professional skills.

Publications • Patents • Collaborations • Grants



Techno Centre, RUAS, in collaboration with NSTL, DRDO, has been awarded a United States Patent for the invention titled “An Article Handling System” (Patent No.: US12,534,348B2). The inventors include Sh. Parikshith Mallya and Sh. Chandru Patreyya Kulkarni from RUAS, along with Dr. Rama Krishna Varanasi, Dr. Obla Ramanandam Nandagopan, and Sh. Uppada Urban Kumar from NSTL, Visakhapatnam.

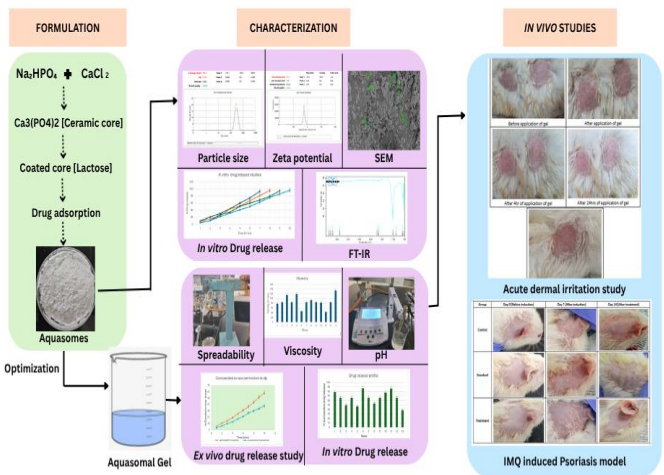
Dr. Prajwal K. T., faculty member, Department of Electrical Engineering, Ramaiah University of Applied Sciences (RUAS), has been awarded a patent for his innovative research titled “Fusion of Horizontal and Vertical Movement Electromagnetic Energy Harvester.” This achievement reflects the University’s strong research culture and commitment to innovation.

Dr. Md Shabi has been granted a UK Design Patent by the Intellectual Property Office (UK) for the design titled “Portable Triple-Action Ear Cleaning Device.” The design (No. 6483864) was registered on 04 November 2025 and granted on 11 November 2025 under International Design Class 15. The patent is registered jointly with co-designers from RUAS.

An invention titled “Topical Medicinal Patch for Management of Dysmenorrhea” has been reported by Ms. Caroline Sharon Furtado (Pharmaceutics), Ms. Ashwini Somayaji (Pharmacology), and Ms. K. S. Spoorthi (Pharmaceutics), Faculty of Pharmacy, RUAS, on 8 January 2026. The invention presents a fennel oil–based transdermal nanoemulsion patch delivering mefenamic acid, demonstrating enhanced drug release, effective pain relief, and improved patient compliance, offering a promising non-oral therapeutic option for managing primary dysmenorrhea.

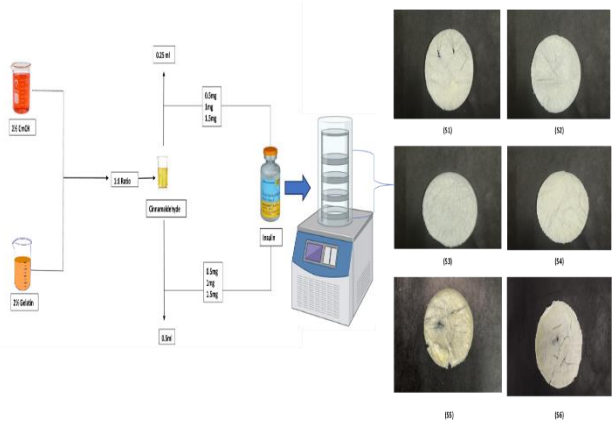
Publications • Patents • Collaborations • Grants

An invention titled “Aquasomal Gel Containing Betamethasone Dipropionate for Treatment of Psoriasis” has been reported by Dr. R. Deveswaran (Professor, Pharmaceutics), Ms. Monisha D. (Pharmaceutics), and Dr. J. Anbu (Professor, Pharmacology), Faculty of Pharmacy, RUAS. Reported on 8 January 2026, the invention presents a novel aquasomal gel formulation that enhances skin penetration, provides sustained drug release, and demonstrates significant therapeutic efficacy and safety in preclinical studies, offering a promising approach for long-term psoriasis management.

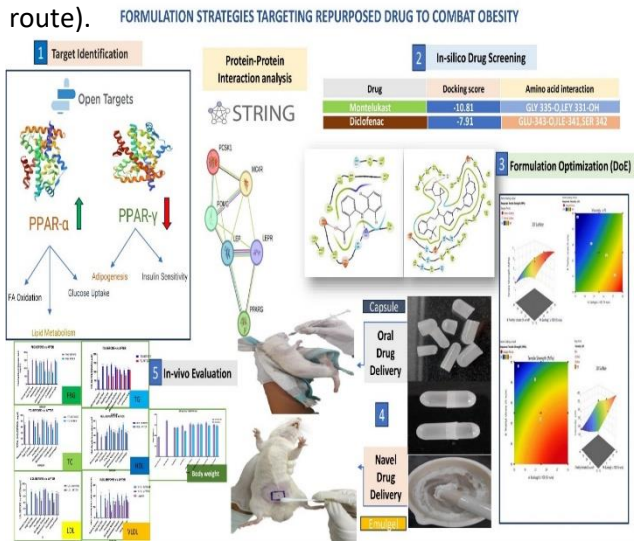


Ms. Chaitra Shri Krishnappa, along with Dr. Ugra Mohan Roy and Dr. Malathi Sathish, has filed an Indian patent titled *“Ring Resonator Based Sensor for the Detection of Cancer Cells”* (Application No. 202541068451, filed on 17 July 2025).

An invention titled “A Composition to Fabricate Biopolymer-Based Wound Healing Product” has been reported by Mr. Tanmoy Ghosh, Dr. Damodar Nayak, Mr. Aditya Nemade, and Dr. Basavaraj B. V., Faculty of Pharmacy, RUAS, on 8 January 2026. The invention presents a biocompatible and biodegradable scaffold incorporating carboxymethyl chitosan, gelatin, and insulin, demonstrating enhanced wound repair, antimicrobial properties, and superior healing efficacy in in vivo studies.

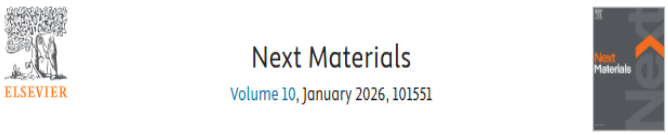


An invention titled “Pharmaceutical Composition to Combat Obesity” has been reported by Dr. Bharath Srinivasan, Ms. Sanjeevini Madhav Hukkeri (Department of Pharmaceutics), and Dr. J. Anbu (Department of Pharmacology), Faculty of Pharmacy, RUAS, on 8 January 2026. The invention focuses on repurposing FDA-approved drugs Montelukast Sodium and Diclofenac Sodium targeting PPAR-α and PPAR-γ, using both oral enteric capsules and a topical nanoemulgel (navel route).



Publications • Patents • Collaborations • Grants

A research paper authored by Mr. Pradeep Kumar (PhD scholar), along with Pampapathi Virupapura and Nikhil T. R., has been published in *Next Materials* (Elsevier), Q1 journal, Volume 10, January 2026.



Review article

Durability and fatigue studies ofbacteria induced concrete for rigid pavements with 3S Recron fibers – A review

Pradeep Kumar, Pampapathi Virupapura, Nikhil T.R

Department of Civil Engineering MS Ramaiah University of Applied Sciences, Bengaluru, India

Received 18 July 2025, Revised 22 September 2025, Accepted 12 December 2025, Available online 8 January 2026, Version of Record 8 January 2026.

A research paper titled *"Developed a New Activation Function for Machine Learning Using Wavelet Function for Fiber Bragg Grating Sensor"* authored by Dr. Sunil Kumar has been published in a Q2 Elsevier journal.

Original research article

Developed a New Activation function for Machine Learning using Wavelet function for Fiber Bragg Grating Sensor

Sunil Kumar [a], Ugra Mohan [a], Somnath Sengupta [b], K.M Yogesh [a]

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https://doi.org/10.1016/j.ijleo.2026.172667

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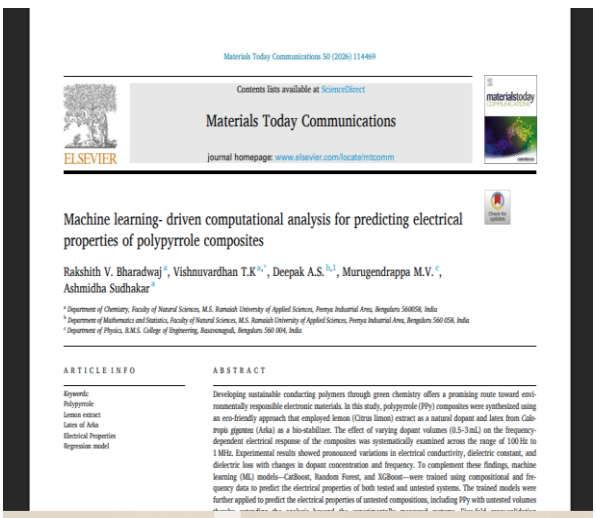
We are pleased to share that a research paper authored by Mr. Adarsh M, along with Ugra Mohan Roy and Malathi S., has been accepted for publication in the *Iranian Journal of Science and Technology, Transactions of Electrical Engineering* (Springer), a Q2 journal with an H-index of 29. The paper titled "Analysis and Development of Switching Node Architecture for Flexible-Grid Networks" (2026) highlights significant research contributions in the field.

Dr. Latharani T. R., Associate Professor, Department of CSE, has published a book titled *Artificial Intelligence in Cyber Security* with Scientific International Publishing House (2025). The book highlights the integration of AI with cybersecurity, covering both academic and practical applications.

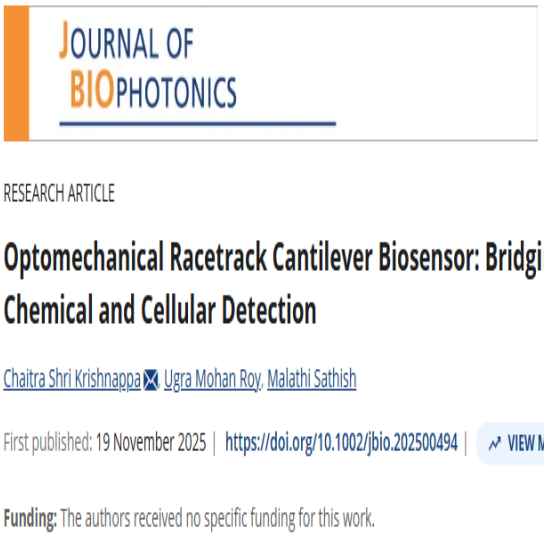
An ICSSR research proposal titled *"Family Size, Aging and Economic Development: A Comparative Analysis of India and Japan"*, submitted under the Special Call for Family Systems, has been approved. The project is led by Dr. Aradhana Talwar (PD) with Dr. Anantha Ramu MR, Assistant Professor, Department of Economics, SSS, as Co-PD. The project has received a grant of ₹15 lakhs for a two-year duration.

An M.Sc. student, Mr. Rakshith V. Bharadwaj, has published two research papers in the Q1 journal *Materials Today Communications* (Volume 50, January 2026; Article Nos. 114469 and 114511).



Publications • Patents • Collaborations • Grants

Ms. Chaitra Shri Krishnappa, along with Dr. Ugra Mohan Roy and Dr. Malathi Sathish, published a research paper titled *"Optomechanical Racetrack Cantilever Biosensor: Bridging Chemical and Cellular Detection"* in the *Journal of Biophotonics* (2025).


JOURNAL OF BIOPHOTONICS

RESEARCH ARTICLE

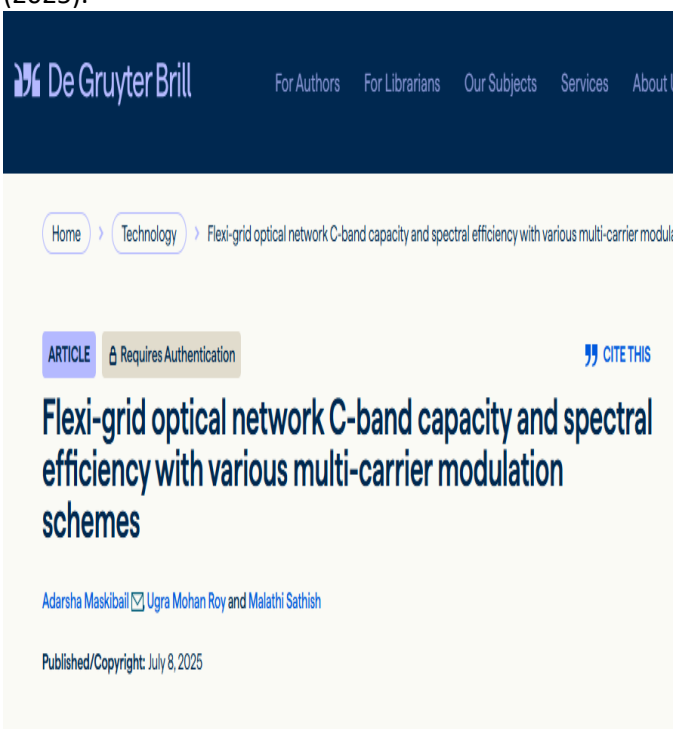
Optomechanical Racetrack Cantilever Biosensor: Bridging Chemical and Cellular Detection

Chaitra Shri Krishnappa, Ugra Mohan Roy, Malathi Sathish

First published: 19 November 2025 | https://doi.org/10.1002/jbio.202500494 | VIEW METRICS

Funding: The authors received no specific funding for this work.

Maskibail Adarsha, Dr. Ugra Mohan Roy, and Dr. Malathi Sathish published a paper titled *"Flexi-grid Optical Network C-band Capacity and Spectral Efficiency with Various Multi-carrier Modulation Schemes"* in the *Journal of Optical Communications* (2025).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Home › Technology › Flexi-grid optical network C-band capacity and spectral efficiency with various multi-carrier modula

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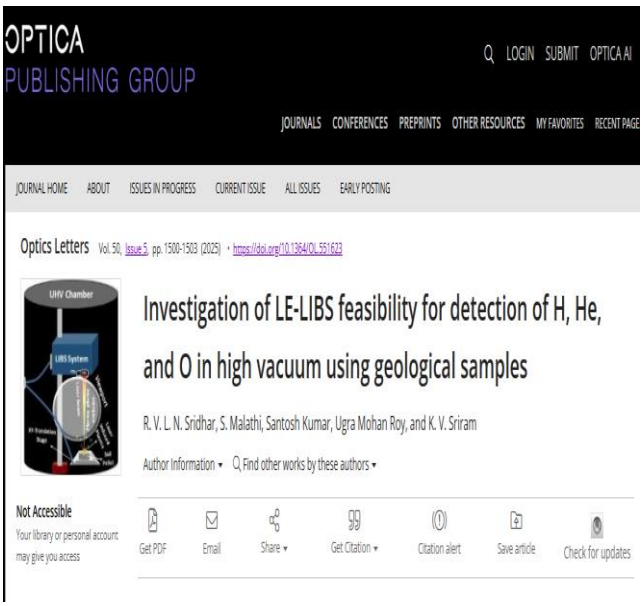
Flexi-grid optical network C-band capacity and spectral efficiency with various multi-carrier modulation schemes

Adarsha Maskibail, Ugra Mohan Roy and Malathi Sathish

Published/Copyright: July 8, 2025

R. V. L. N. Sridhar, Dr. Malathi Sathish, Santosh Kumar, Dr. Ugra Mohan Roy, and K. V. Sriram published a paper titled *"Investigation of LE-LIBS Feasibility for Detection of H, He, and O in High Vacuum Using Geological Samples"* in *Optics Letters* (2025).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Optics Letters Vol. 50, Issue 5, pp. 1500-1503 (2025) • https://doi.org/10.1364/OL.551623

Investigation of LE-LIBS feasibility for detection of H, He, and O in high vacuum using geological samples

R. V. L. N. Sridhar, S. Malathi, Santosh Kumar, Ugra Mohan Roy, and K. V. Sriram

Author Information • Find other works by these authors •

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Sanction has been received for the ANRF–ITS funded project titled *"Opportunistic Screening of Osteoporosis from Dental Panoramic Radiographs Using Deep Learning."* The study was carried out in collaboration with Dr. Roopa S. Rao and executed by M.Tech students Mr. Tushar Pati and Mr. Lichingngamba Tensubam, with support from the Research Division.


Cite this paper

Shivanna, D.B., Rao, R., Patil, T., Tensubam, L., Rao, S.G.V., Lingappa, A. (2026). Opportunistic Screening of Osteoporosis from Dental Panoramic Radiographs Using Deep Learning. In: Cafolla, D., Rittman, T., Ni, H. (eds) Artificial Intelligence in Healthcare. AIiH 2025. Lecture Notes in Computer Science, vol 16038. Springer, Cham. https://doi.org/10.1007/978-3-032-00652-3_14

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PROJECT COLLABORATION AGREEMENT

Preamble

This project collaboration agreement is entered into on the 12th day of January, 2026, by and between:

M. S. Ramaiah University of Applied Sciences (MSRUAS), a private University established under the M. S. Ramaiah University of Applied Sciences Act, Government of Karnataka, having its registered office at University House, New BEL Road, MSR Nagar, Bangalore -560054 (hereinafter also referred to as "MSRUAS") represented by Mr S Ashok Rao, duly authorized for the purpose, of the First Part;

And

Global Association of Forensic Accountants (GAFA), is a global authority in anti-fraud certifications and investigation services, registered under the The Haryana Registration and Regulation of Societies ACT, 2012, having its office at Col-04-02 , 4th Floor Emaar Colectnade, Golf Course Ext. Road, Sector 66, Gurgaon - 122018 (hereinafter also referred to as "GAFA") represented by Ms. Kanwaljeet Kaur Soni, President, duly authorized for the purpose, of the Second Part;

MSRUAS and GAFA are hereinafter individually referred to as Party and collectively as Parties.

NOW THEREFORE, in consideration of the mutual covenants herein contained, the Parties agree as follows:

1. **Nature of Collaboration**
   a. This Agreement is limited to a specific research project and confined strictly to project-related academic and research interaction.
   b. This Agreement does not create any joint venture, partnership, employment, or agency relationship.

2. **Purpose**
   a. The purpose of this collaboration is to undertake an applied research project in the areas of financial fraud, forensic analytics, Anti-Money Laundering (AML) and regulatory compliance, cyber-enabled economic crime, and the use of artificial intelligence for financial crime investigation.
   b. The collaboration is primarily academic in nature. Any commercial engagement arising from this collaboration shall be governed by a separate written agreement mutually agreed upon by both parties.

Page 1 of 7

Registered as : MS Ramaiah University of Applied Sciences
"Established as per Govt. of Karnataka ACT No. 15 of 2013. Recognized by UGC U/S 2(f) of the UGC Act, 1956"

The Centre of AI for Social Good (CAISG), RUAS, has commenced its first industry-integrated collaborative research project titled "Data-Driven Anti-Money Laundering Solutions", in partnership with the Global Association of Forensic Accountants.

Team ORI
Dr. B. S. Nanda Kumar
Dr. T. Niranjana. Prabhu
Dr. Anu Krishnan
Dr. Sowmya Hegde
Mr. Hari Prasad
Mr. Thulasiram. M. A
Mrs. Mahalakshmi