








RESEARCH NEWSLETTER

December 2024

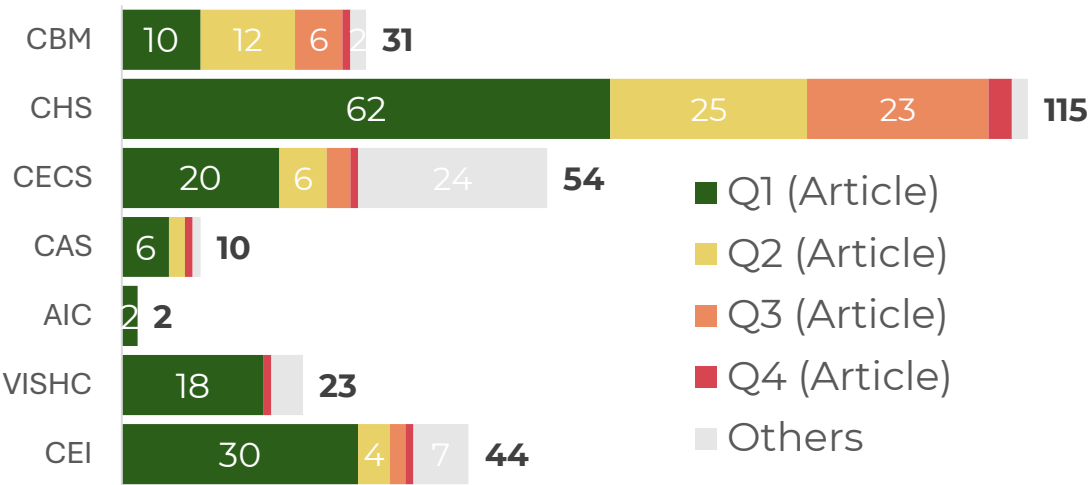
1. PUBLICATION

To date, VinUni has achieved **279 Scopus-indexed** publications in 2024 - a **25% increase** from 2023! As Scopus updates its records, we can expect this number to **grow higher at the end of the years!**





2024 Top Authors

-  Ahmad Hajjar, PhD (CECS): 15 docs (h-index 21)
-  Nguyen Van Dinh, PhD (CECS): 14 docs (h-index 28)
-  Wray Buntine, PhD (CECS): 10 docs (h-index 51)
-  Pranee Liamputtong, PhD (CHS): 10 docs (h-index 54)
-  Andrew W. Taylor-Robinson, PhD (CHS): 9 docs (h-index 25)

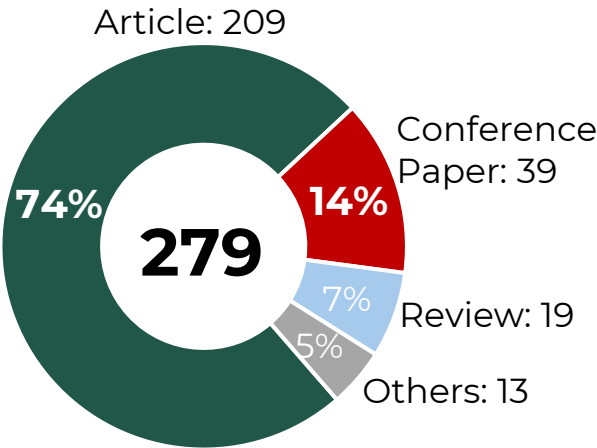
2024 Publications by Colleges/Centers



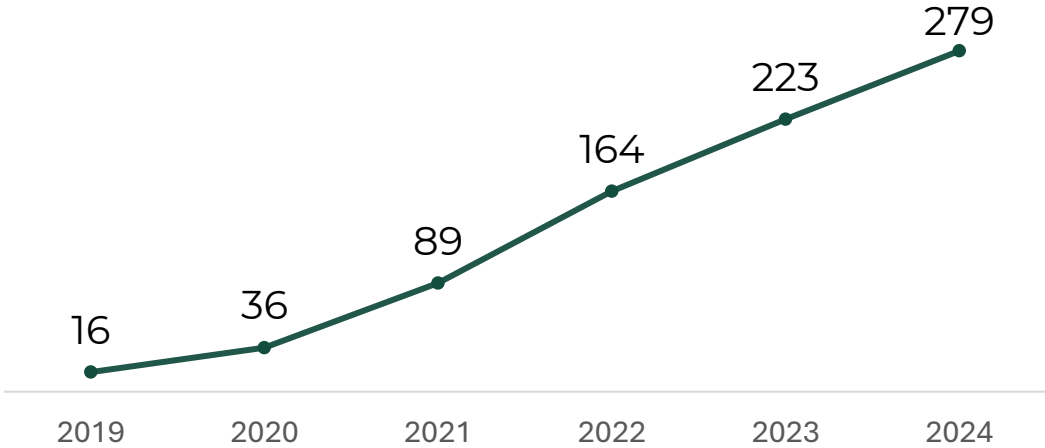
2024 Top Research Areas

-  **Medicine**
100 docs
-  **Computer Science**
63 docs
-  **Engineering**
53 docs
-  **Social Sciences**
32 docs

2024 Publications by Type



2019 – 2024 VinUni's Publication Numbers



2. KEY RESEARCH EVENTS IN 2024

April 5



Oct 16



Nov 15



Dec 5



Dec 6



Dec 7



VinFuture Prize Laureates Lectures

gathered **1,300+** researchers, students, and leaders to engage with the Laureates' groundbreaking innovations in AI, biomaterials, and cancer immunotherapy.



Open Innovation Conference

brought **300+** global leaders and experts to explore sustainable innovation through academic insights and practical solutions, featuring 96 research papers and cutting-edge green technologies.



Asian Conference on Machine Learning

welcomed **200+** professionals, featuring inspiring keynotes, engaging presentations, and vibrant discussions on cutting-edge AI and machine learning advancements.



National Medical Education Conference

welcomed **1,000+** participants, with 18 workshops, 30 presentations, and a competition featuring 60 teams from 14 schools, focusing on AI and school-hospital partnerships.



Franconomics 2024

brought **300+** experts and leaders to discuss renewable energy solutions, foster international cooperation, and feature engaging activities such as the ÉCOJEUNES 2024 competition.



3D Technology in Medicine Conference

drew **1,000+** participants and featured scientific presentations, training, and a 3D tech exhibition, with Vinmec announcing 3D technology expansion across all hospitals in 2024

3. NOTABLE EXTERNAL GRANT PROJECTS



Farm2Vet: Combat AMR on the Farm Frontier

Team: Khoa D. Doan; Kokseng Wong; Pranee Liamputtong; Andrew Taylor Robinson; Doanh Nguyen; Giang Phi (CECS, CHS, CBM). Won the **£1 million top prize at The Trinity Challenge 2024**



Enhancing LED Emission with Perovskite Nanocrystals

Team: Le Van Quynh (CECS) **one of seven Physics projects funded by NAFOSTED**. Total Grant: **\$150,000**



AI for Chest X-Ray Interpretation

Team: Pham Huy Hieu; Minh Do; Bui Van Giang (VISHC) **One of 10 project funded by the NAFOSTED-SNSF** (Swiss National Science Foundation). Total Grant: **\$600,000**



EQIS: Healthcare Quality Improvement Project

Team: Le Van Phuoc (CHS); **\$720,000** grant from **Peabody Health Philanthropies**



Outdoor Tourism and Cultural Narratives

Team: Myles Liam Lynch; David Harrison (CAS) **Funded by a £210,000 grant from the British Academy**



Enhancing 6G Performance with Edge Computing & Slicing

Team: Nguyen Van Dinh (CECS) **funded by NAFOSTED**, Computer Science sectors. Total Grant: **\$45,000**

4. DISCOVER UPCOMING FUNDING OPPORTUNITIES WITH PIVOT-RP

VinUni offers access to **Pivot-RP**, a trusted and powerful platform that makes **finding external funding opportunities and connecting with collaborators easier than ever**. With tailored search tools and personalized features, Pivot-RP is here to support your research journey and help you achieve success.

Access the platform and its tutorial using this [Link](#) or **by scanning the QR code**. Use your vinuni.edu account to sign in.

Start discovering the perfect funding opportunities for your research today!

“Pivot-RP provides me with tools to customize my grant searches, making it incredibly useful. I’ve already secured several grants thanks to this platform!”

- Dr. Khoa D. Doan, PhD (CECS) at VinUni Research Townhall 2024



5. AY 23-24 Seed Grant Projects

In 2024, 12 projects have successfully received funding through the Seed Grant Program, empowering researchers to bring their innovative ideas to life and advance impactful research.

Project Title	PI and College
Improving NLP Applications in Low-resource Languages: One Country and One use Case at a Time	Doan Dang Khoa, CECS/CBM/CHS
Robust Vietnamese-English Clinical and Educational Medical Translation	Wray Buntine, CECS/CHS
Vietnam alliance for semiconductors and advanced computing (VASCOM)	Laurent El Ghaoui, CECS/CEI
Application of 3D printing technology in the manufacturing of implants for treating bone defects using Ti6AL4V alloy	Tran Trung Dung, CHS/3DLab/CECS
Beyond boundaries: Redefining healthcare through virtual consultation	Liew Siaw Cheok & Jeffrey Mayne, CHS
Developing a spatial model to predict mosquito habitat and dengue risk potential in Vietnam's urban environment	Andrew Taylor-Robinson CHS/CAS
Evaluating and Defending against Advanced Backdoor Attacks on Deep Learning	Doan Dang Khoa, CECS
Advancing sustainable wastewater treatment through Electrocoagulation, AI, and innovative materials (in collaboration w Prof. Novoselov)	Phung Thi Viet Bac, CECS/CEI
Development and Evaluation of an AI-Powered Robot for Enhancing Pediatric Health Education in Vietnam	Bui Thi Thanh Huyen, CHS
A Soft Filament Sensor with Wireless Human-Computer Interface for Rehabilitation	Thai Mai Thanh, CECS
Electrochemical-based Fiber Sensors for Environmental and Health Monitoring	Nguyen Dang Tung, CECS
Organizational culture and its impact on corporate sustainable development: Evidence and implications	Nguyen Thi Mai Lan, CBM

Colleagues
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Colleagues

Dear Colleagues,

As we celebrate the festive season, we reflect on your incredible contributions to research excellence in 2024. Your dedication and innovation have been the driving force behind VinUni's impact. We wish you and your loved ones a joyful holiday season filled with peace, happiness, and cherished moments. Here's to a prosperous New Year and an even more successful 2025!

Warm regards,

VinUni Research Office

