

ANZMAG NEWS - MARCH 2025

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Dear all, Welcome to the March 2025 edition of ANZMAG. I hope you have all had a great month and that you enjoy the newsletter.

NMR and #RSCPoster

The winners of #RSCPoster 2025 were announced just over a week ago. There were >1100 registrants from 69 countries. Congratulations to **Igor W. Ferreira da Silva** from Monash University, who won the #RSC Analytical category with his poster on dispersity determination using Diffusion-Ordered Spectroscopy (DOSY). You can see the poster at <https://tinyurl.com/mupsbf3b>

CONFERENCES

- The 58th Annual meeting of the ESR Spectroscopy Group will be held in London from 1st to 5th June See <https://www.esr-group.org/conferences/2025-conference-london/>
- The AMPERE NMR School 2025 will take place in Zakopane, Poland, from June 8-14. See <https://school.web.amu.edu.pl>
- Euromar will be held in Oulu, Finland, from the 6th to the 10th of July. See <https://euromar2025.org>
- An online Global NMR conference will be held from July 16th to 18th. See <https://www.globalnmr.org/online-conference-2025> for more details.

JOBS AND FELLOWSHIPS

- Flinders University is looking for a Research Associate in (Computational) Chemistry. Applications close on **13/4/25**. You can find out more at <https://www.seek.com.au/job/82827292?savedSearchID=80a2cb42-a1de-11e8-93a9-9f758d657388&tracking=JMC-SavedSearch-anz-1-JYMHM>
- The Peter Mac Institute in Melbourne is recruiting a Group Leader to increase the capacity and efficiency of their “discovery to translation” cancer research pipeline. See <https://www.nature.com/naturecareers/job/12837590/group-leader/> Applications close on **09/5/25**

BLUESKY STARTER PACKS

If anyone else has moved to BlueSky from X(Twitter) and is looking for people in the same research area, you may find the following starter packs of interest. Bluesky starter packs are lists of users created by users. They're usually centred around a specific topic, interest or geographical area.

Magnetic Resonance - <https://bsky.app/starter-pack-short/NiqEFGm>

MagRes - <https://bsky.app/starter-pack-short/CctG8H4>

MR Researcher - <https://bsky.app/starter-pack-short/AQ2P1ms>

EPR-ESR Spectroscopy - <https://bsky.app/starter-pack-short/KJZ4P8X>

Chemists - <https://blueskystarterpack.com/chemists>

Australian Chemists - <https://blueskydirectory.com/starter-packs/a/11146-ozchem>

AWARDS AND PRIZES

- The **Financial Review Women in Leadership Awards 2025** are open for applications, and there is an education category. <https://lists.afr.com/womeninleadership/> Closing date is **9th April**.
- The **VinFuture Prize** recognises breakthroughs across all science, technology and engineering fields that have already delivered impact or show the potential to deliver impact. See <https://vinfutureprize.org/vinfuture-prize-nomination/> Closing date is **17th April 2025**
- The **Tall Poppy Awards** from the Australian Institute of Policy and Science for ECRs are open for applications. See <https://aips.net.au/2024-young-tall-poppy-awards-2/> Closing date is **28 April**.
- The **Science Excellence Awards South Australia** are open for nominations. See <https://www.scienceawards.sa.gov.au> Closing date is **28th April 2025**
- The 2025 **Australian Financial Review Higher Education Awards** highlight the contribution HE makes to Australian life. There are eight categories. See <https://live.afr.com/higheredawards> Note that your institution may have an EOI policy for these. Closing date is **22nd May 2025**
- Nominations for the **Australian Academy of Technological Sciences & Engineering** awards are open. Details at - <https://www.atse.org.au/what-we-do/atse-awards/>
- The **Australian Academy of Science** has a large number of awards open at multiple career stages. See <https://www.science.org.au/supporting-science/awards-and-opportunities> for details.

PAPER OF THE MONTH

Metal Organic Frameworks (or MOFs) are crystalline porous materials made of metal ions coordinated to organic linkers. They get a lot of attention in a range of research areas, from catalysis to water pollution - but did you know you could study them with solid-state NMR? If not, then this month's Paper of the Month may be of interest. The title is "*Pushing Limits of Ultra-wideline Solid-State NMR Spectroscopy: NMR Signatures of ²⁰⁹Bi and ¹²⁷I in Metal–Organic Frameworks at Ultra-high Magnetic Fields*" by Zhang *et al.* The team demonstrates that UW SSNMR can effectively probe bismuth and iodine ions even in systems where these elements are present in low concentrations. They present ultra-wideline SSNMR spectra of eight MOFs acquired at ultra-high magnetic fields up to 36 T, with breadths of 8–50 MHz, revealing very large quadrupolar couplings. These spectra uncover key structural details, including dehydration, phase transitions, and disorder. This study demonstrates the feasibility of directly characterising nuclei with extremely large quadrupole moments in MOF materials. This approach could be extended to other fields beyond MOFs, such as solar cells, surface science, catalysis, and biochemistry. You can read more at <https://pubs.acs.org/doi/10.1021/jacs.4c17499>

STORIES FROM THE WEB

- https://www.ciqtekglobal.com/world-s-first-ai-electron-paramagnetic-resonance-epr-system-by-ciqtek_n174 - On October 19th, at the 2024 National Conference on Electron Paramagnetic Resonance Spectroscopy, CIQTEK unveiled a new AI Electron Paramagnetic Resonance.
- <https://analyticalscience.wiley.com/content/news-do/new-quantum-sensor-elevates-magnetic-resonance-imaging-microscopic-level> - A new quantum sensor may take magnetic resonance imaging to the microscopic level.
- - <https://www.expresshealthcare.in/news/benchtop-nmr-technology-enables-accessible-cardiovascular-disease-risk-assessment/448351/> have researchers transferred high-field NMR spectroscopy-based lipoprotein analysis to benchtop NMR systems successfully and made making cardiovascular disease risk assessment more accessible?