

ANZMAG NEWS - NOVEMBER 2023

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Dear all, Welcome to November 2023 edition of **ANZMAG News**. I hope you have all had a great month. It is a bit of a quiet news month but plenty of jobs and award advertised as well as science gifts.

SCIENCE GIFTS FOR CHRISTMAS

If you are looking for science gifts for Christmas presents. Here are some suggestions. NB I am not affiliated with any of these – although I do have some of the dorbital games pins and element samples from Luciteria (NB ebay is also a good source of elements)

- <https://www.geeksoutfit.com/products/-enamel-pins>
- <https://www.dorbitalgames.org/pins>
- <https://www.madaboutsience.com.au/shop/>
- <https://thecalculatedchemist.com>
- <https://www.luciteria.com>

PAPER OF THE MONTH

This weeks' paper of the month is a short communication article on a subject we perhaps don't think about often enough. The title is "The effect of tube quality on externally calibrated quantitative nuclear magnetic resonance analysis: How bad can it be?" and it is by Ochoa et al. The idea behind this one is that externally calibrated quantitative NMR is often used to evaluate chemical identity and content without the addition of calibrants. Sounds great but the adoption of these approaches has apparently been slower than expected. The authors suggest that variations in NMR tube geometry are a commonly overlooked factor that can have a substantial effect on externally calibrated quantitation methods so they set out to test the extent to which tube-to-tube volume variability can affect quantitative NMR outcomes. The results indicated that tube quality is an important factor to consider. The authors also suggest a correction strategy using the residual protonated solvent signal that can help alleviate the effect of tube-to-tube variability. See <https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/10.1002/mrc.5404> for more details.

JOBS

- RMIT is has not one but two positions in Environmental Science advertised at present. Deadline = 29/11/23. See <https://www.seek.com.au/job/71366522>
- Plant & Food Research in New Zealand is looking for a senior scientist in Metabolite Chemistry. See <https://careers.sciencenewzealand.org/jobdetails/ajid/lfMO9/53683-Senior-Scientist,53683.html> Deadline = 10/12/23.
- Monash University is looking for a lecturer in inorganic chemistry for a 3-year term. Deadline = 12/12/23. See <https://careers.pageuppeople.com/513/cw/en/job/658254/lecturer-in-inorganic-chemistry>
- The University of Adelaide is looking for a lecturer in Chemistry. Deadline = 5/12/23. See <https://careers.adelaide.edu.au/cw/en/job/512987/lecturer-b-chemistry>
- The University of Adelaide is also looking for a lecturer in Soil Science. Deadline = 17/12/23. See <https://careers.adelaide.edu.au/cw/en/job/513054/lecturer-a-soil-science>

AWARDS

- Nominations are open for Prof. H S Atreya award-2023. The award is given annually to an outstanding scientist working in any area of magnetic resonance under 45. See <https://www.dropbox.com/scl/fi/vfw627w3cu2z2d8yibcwn/HS-Atreya-Award23.pdf?rlkey=yz8js75s5rdfp7vyu9vieox68&dl=0> for a flyer with full details.
- The IUPAC-SOLVAY International Award for Young Chemists is intended to encourage outstanding young research scientists at the beginning of their careers. The awards are given for the most outstanding Ph.D. theses in the general area of the chemical sciences as described in a short essay. See <https://iupac.org/2024-iupac-solvay-international-award-for-young-chemists-call-for-applicants/>
- Royal Society of Chemistry awards. Includes 2024 Horizon Prizes Inclusion & Diversity Prize Research & Innovation Prizes and Volunteer Recognition Prizes See <https://www.rsc.org/prizes-funding/prizes/> (and scroll down).
- ACS 2024 Early Career Investigator Award in Analytical Chemistry - honours the contributions of an individual who has demonstrated exceptional technical advancement and innovation in the field of analytical chemistry in their early career. Nomination Deadline: 31/12/23
See https://americanchemical.co1.qualtrics.com/jfe/form/SV_d6AD2eIAQoPKxBs
- ACS 2024 Advances in Measurement Science Lectureship Awards honour the contributions of one individual from each of three major geographic regions -- the Americas, Europe/the Middle East/Africa (EMEA), and Asia-Pacific -- who has made a major recent impact in the field of measurement science. Nomination Deadline: 31/12/23 See https://americanchemical.co1.qualtrics.com/jfe/form/SV_8iv3Tfnrqc3wE06
- In Victoria, the Premier's Awards for Health and Medical Research are open for applications (close 7th January 2024) These awards are for PhD students and postdocs there are five award categories - Basic Science Researcher; Clinical Researcher; Aboriginal Researcher undertaking research in any field of health and medical research; Health Services Researcher; Public Health Researcher; Full details at <https://www.health.vic.gov.au/about/premiers-awards-for-health-and-medical-research>
- Prime Minister's Prizes for Science are annual Australian awards for outstanding achievements in scientific research innovation and teaching. There are multiple categories. Nominations for 2024 are open now at <https://www.industry.gov.au/science-technology-and-innovation/science-engagement/prime-ministers-prizes-science>

STORIES FROM THE WEB

- <https://www.bruker.com/it/products-and-solutions/mr/make-mr-more-relevant/research-with-epr.html>
How does Bruker use EPR? Find out here. Includes some useful videos.
- <https://www.siemens-healthineers.com/press/releases/future-prize-nom-2023> – A about a nomination for the German Future Prize for development of novel low-field magnetic resonance imaging.
- <https://phys.org/news/2023-07-nmr-method-drug-elucidation.html> – A news alert about the 1st NMR method to selectively measure the information of carbon atom nuclei linked to specific hydrogen in a single measurement.