


Sample: Quality Profile.

Home **Profiles** Publications Activities Organisations



The profile photo is clear and an appropriate distance from the subject

Amir Karton

Prof
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UNE Armidale Campus,
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2351 Armidale
Australia

Accepting PhD/HDR Students Indicates capacity to take on new HDR students

PhD/HDR projects

- Computational Design of 2D Materials
- Computational Design of Nanomaterials
- Computational Design of Biomass Conversion Catalysts Lists potential projects to attract HDR students
- Computational Bioactive molecules
- Development of Efficient Quantum Chemical Methods

Research activity per year Publications pre 2015 will be loaded into Pure to ensure this is accurate

[View Scopus Profile](#) Appropriate external links have been added

Overview | Fingerprint | Network | Publications (168) | Similar Profiles (2)

Personal profile

Biographical Details

Bio and teaching information added

Professor Amir Karton leads the quantum chemistry lab at the School of Science and Technology at the University of New England. Prof. Karton's lab designs functional molecules and materials for catalysis and sustainable energy technologies using high-level quantum chemical simulations. The significance of this research has been recognized by the Royal Australian Chemical Institute (RACI) Citation Award (2021), American Chemical Society (ACS) PHYS Division Lectureship Award (2020), RACI Physical Chemistry Lectureship (2019), and Le Fèvre Medal from the Australian Academy of Science (2018). Amir is an Editor of Chemical Physics Letters and Associate Editor of the Australian Journal of Chemistry.

Teaching

Computational chemistry, Applications of virtual reality (VR) technology in chemistry education, Physical chemistry.

Expertise related to UN Sustainable Development Goals

In 2015, UN member states agreed to 17 global Sustainable Development Goals (SDGs) to end poverty, protect the planet and ensure prosperity for all. This person's work contributes towards the following SDG(s):



SDGs added

Education/Academic qualification

Doctorate, Theoretical and Computational Chemistry (2010), Weizmann Institute of Science

Education/Qualifications have been listed

UNE Supervisor

Approved PhD/HDR supervisor

Research Services/GRS will ensure this is listed if on the Supervisor Register

Research Interests

Computational Chemistry

Quantum Chemistry

Computational Materials

Nanomaterials

Sustainable Chemistry

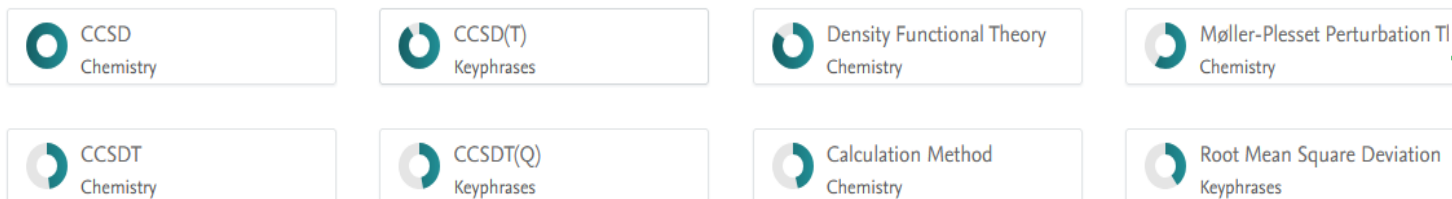
Research Interests help potential HDR students and research collaborators to find you and your work when searching

Fingerprint

2

Similar Profiles

Dive into the research topics where Amir Karton is active. These topic labels come from the works of this person. Together they form a unique fingerprint.

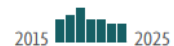


Fingerprints are generated by Pure based on certain content types: outputs, projects, research interests, prizes and awards. Fingerprints provide key themes / topics which can be used during search and filtering. As new content is added to Pure these may change and thus should be reviewed regularly.

[View full fingerprint >](#)

Research output

Research output per year ↗



164

Article

2

Letter

1

Chapter

1

Other

Basis Set Convergence and Empirical Approaches for Obtaining Accurate Diagonal Born–Oppenheimer Corrections from an Extensive Database of 200 Structurally Diverse Hydrocarbons

Karton, A., 12 Jun 2025, (E-pub ahead of print) In: The Journal of Physical Chemistry Part A. p. 1-8

Research output: Contribution to journal > Article



Publications held in Pure will automatically show on a researcher's profile. Using 'Highlighted Content' (Pure Backend) allows researchers to define a set of records which will appear at the top of the list on their profile page.

Refer to the Highlighted content user guide for details on how to ensure your highest quality publications appear at the top of your publications list.

Pure Projects (based on research awards) are not yet switched on to show on Profiles, but they are planned to roll out asap. Pure Activities will be available for population by researchers and these are switched on to show on Profiles, if researchers make them public.