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Streamlit App

Welcome to the Home Page

This is the home page of the app.

User input

Key in proposal title or summary

denovo abiogenesis in real time

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summarising proposal based on language model

Summary: This proposal aims to study how life can spontaneously arise from non-living materials, a process known as abiogenesis, by observing it happening in real-time. Researchers will conduct experiments to understand the conditions and chemical reactions that could lead to the formation of simple life forms from basic building blocks.

Disciplines/Subfields:

1. Biochemistry
2. Molecular Biology
3. Astrobiology
4. Origin of Life Studies
5. Chemistry (Organic and Inorganic)
6. Evolutionary Biology
7. Environmental Science
8. Physics (Thermodynamics and Chemical Kinetics)
9. Synthetic Biology
10. Systems Biology
11. Geochemistry
12. Paleobiology
13. Bioinformatics
14. Experimental Biology
15. Theoretical Biology

getting initial list of reviewers

name	h-	gender	Content

	index		
reviewer_206	34.0	M	1) real-space observation of surface reaction processes at the single-molecule level, (2) single-molecule measurement of quantum states involved in the processes, and (3) exploration of the selective control of reaction pathways and physicochemical properties of molecular interfaces. excitation of molecules on solid surfaces leads to various energetic processes, such as transfer, conversion, and dissipation. Thus, a detailed understanding of the excited quantum states of the molecules is crucial to improve and develop organic energy conversion devices based on (opto)electronic and/or (photo)chemical processes.
reviewer_59	93.0	M	Chemistry of Biological Processes, bioinorganic chemistry Marc Fontecave has deepened his understanding of the structure and reactivity of the metal centres present in metalloproteins.[3] Its research can have applications in the fields of chemistry (selective catalysts), health (anti-cancer, antioxidants), environment (bioremediation, green chemistry[4]) and energy (hydrogen production[5][6][7] and carbon dioxide transformation).
reviewer_3	41.0	M	Physics and Engineering, Spintronics Spin physics This laboratory focuses on exploring spin physics using quantum relativistic effects in condensed matter. Research covers a wide variety of emerging phenomena arising from interaction between spin/charge of electrons and elementary excitations. By revealing the physics of these phenomena, we will lay a foundation for next-generation electronic technology.
reviewer_37	157.0	M	Bioengineering and Nanotechnology Professor Yusuke Yamauchi specialises in the design of exotic nanospaces in inorganic materials with controlled compositions and morphologies toward practical applications. Yamauchi Group creates novel “inorganic nanosolids containing internal nanospaces, as unprecedented nanospace materials, and develop several methodologies for their effective integration with the aim of exploiting functions obtained based on the synergistic fusion of various supramolecular, photonic, and magnetic behaviors occurring in nanospace. The research area will cover a wide range of various porous systems such as metals, carbons, sulfides, phosphides, transition metal oxides, etc. The group will

			efficiently combine ‘machine learning’ with our inorganic synthesis methods to accelerate the optimization of synthetic parameters for the design of target materials, and to select proper patterns of the combination of each inorganic block for the integration of materials.
reviewer_21	72.0	F	Chemical Engineering BIO-INSPIRED MATERIALS , MEMBRANES AND POLYMER/ WATER INTERACTIONS, CONJUGATED POLYMERS, MIXED ION-ELECTRON CONDUCTION, POLYMERIC IONIC LIQUIIDS, POLYMER UPCYCLING

name of reviewer	rating	list of expertise	reason why this reviewer may be a good fit
reviewer_59	85	Bioinorganic chemistry, Chemistry of Biological Processes	Reviewer has expertise in the chemistry of biological processes, which is relevant to understanding abiogenesis and the chemical reactions involved in the formation of life.
reviewer_37	80	Bioengineering, Nanotechnology	Reviewer specializes in the design of materials and could provide insights into the experimental setups and materials needed to study abiogenesis.
reviewer_21	75	Chemical Engineering, Bio-inspired materials	Reviewer has experience with polymer interactions and could contribute to understanding the chemical environments that facilitate the emergence of life from non-living materials.

IMPORTANT NOTICE: This web application is developed as a proof-of-concept prototype. The information provided here is NOT intended for actual usage and should not be relied upon for making any decisions, especially those related to financial, legal, or healthcare matters.

Furthermore, please be aware that the LLM may generate inaccurate or incorrect information. You assume full responsibility for how you use any generated output.

Always consult with qualified professionals for accurate and personalized advice.