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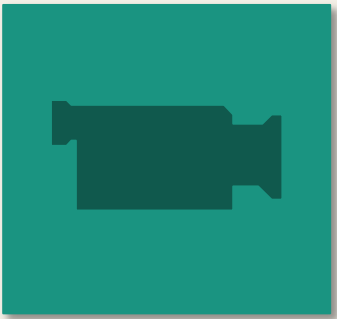


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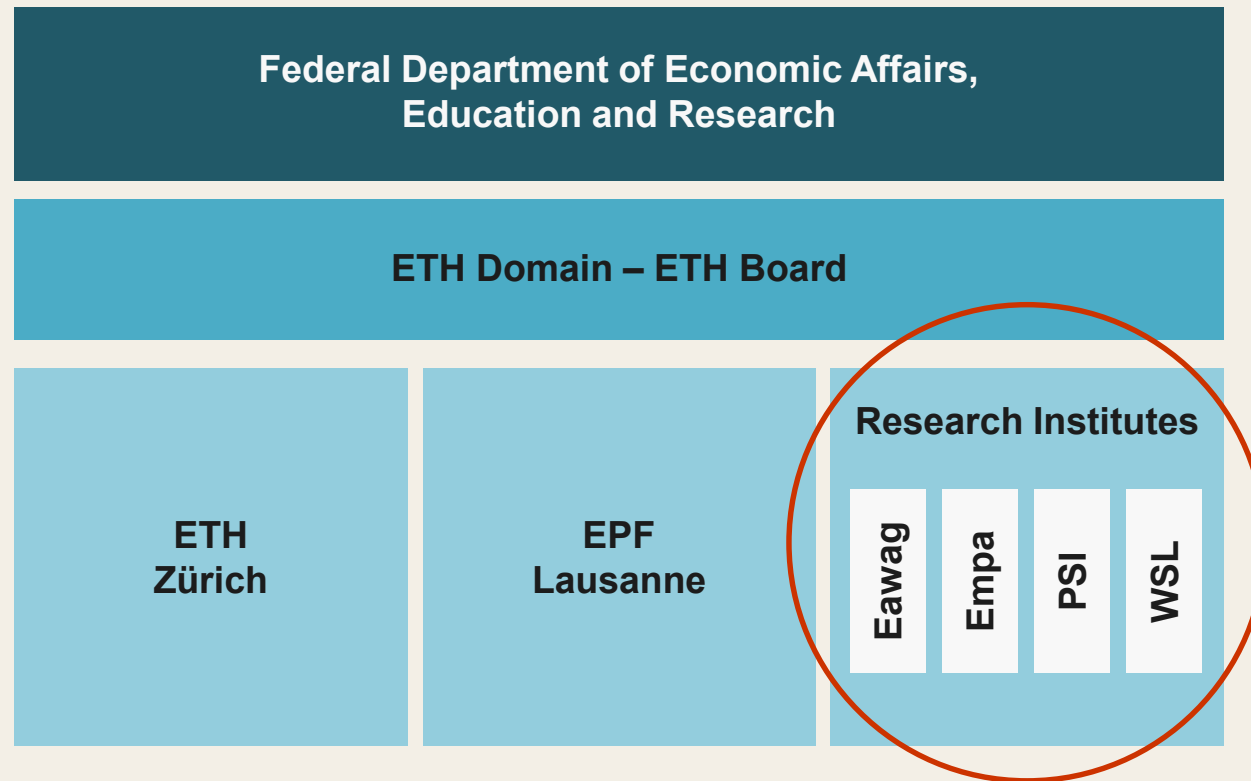
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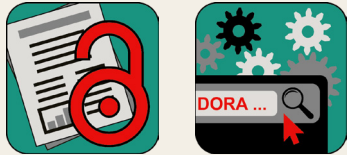
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The rapid spread of microorganisms such as bacteria, fungi, and viruses can be extremely detrimental and can lead to seasonal epidemics or even pandemic situations. In addition, these microorganisms may bring about fouling of food and essential materials resulting in substantial economic losses. Typically, the microorganisms get transmitted by their attachment and growth on various household and high contact surfaces such as doors, switches, currency. To prevent the rapid spread of microorganisms, it is essential to understand the interaction between various microbes and surfaces which result in their attachment and growth. Such understanding is crucial in the development of antimicrobial surfaces. Here, we have reviewed different approaches to make antimicrobial surfaces and correlated surface properties with antimicrobial activities. This review concentrates on physical and chemical modification of the surfaces to modulate wettability, surface topography, and surface charge to inhibit microbial adhesion, growth, and proliferation. Based on these aspects, antimicrobial surfaces are classified into patterned surfaces, functionalized surfaces, superwettable surfaces, and smart surfaces. We have critically discussed the important findings from systems of developing antimicrobial surfaces along with the limitations of the current research and the gap that needs to be bridged before these approaches are put into practice.

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Author Information

Corresponding Address: Deshpande, Atul Suresh (corresponding author)

- Indian Inst Technol Hyderabad, Dept Mat Sci & Met Engr, Sangareddy 502285, Telangana, India

Addresses:

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Author Information

Corresponding Address: PACYN A, J (corresponding author)
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Title	Nature (English)
ISSNs	Print: 0028-0836 Electronic: 1476-4687
URL	http://www.nature.com/nature/
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[5] L. Simonot, G. Maire, A comparative study of LaCoO₃, Co₃O₄ and LaCoO₃—Co₃O₄: I. Preparation, characterisation and catalytic properties for the oxidation of CO, Appl. Catal. B: Environ. 11 (2) (1997) 167–179.

CAS Source Index (CASSI) Search Result

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Entry Type	Active Serial
Title	Applied Catalysis, B: Environmental
Abbreviated Title	Appl. Catal., B
CODEN	ACBEE3
ISSN	0926-3373
Former Title Note(s)	Supersedes in part
Former Title(s)	Applied Catalysis
Language of Text	English
Summaries In	English
History	v1 n1 Feb. 1992+
Publication Notes	Avail. from Internet at URL: https://www.sciencedirect.com/journal/applied-catalysis-b-environmental
Publisher Name	Elsevier B.V.

Web of Science

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nanomaterials risks and benefits

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- *Nanomaterials : risks and benefits*. Springer; 2009.
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- *Lipids in nanotechnology*. AOCSS Press; 2012.
- *Nanomaterials: A Danger or a Promise? : A Chemical and Biological Perspective*. Springer London; 2013.
- *Nanomaterials: Ecotoxicity, Safety, and Public Perception*. Springer International Publishing; 2018.
- *Nanomaterials recycling*. Elsevier; 2022.
- *Towards efficient designing of safe nanomaterials : innovative merge of computational approaches and experimental techniques*. RSC Pub; 2012.
- *Nanoscience and Plant–Soil Systems*. Springer International Publishing; 2017.
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Title *Nanomaterials : risks and benefits*

Attribution edited by Igor Linkov and Jeffery Steevens.

Publication Dordrecht, The Netherlands : Springer,

Edition 1st ed. 2009.

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The screenshot shows the Lib4RI search interface. The search bar contains 'nanomaterials risks and benefits'. A dropdown menu is open, showing 'swisscovery without CDI' selected. The search results page shows 'Tweak your results' on the left with filters for 'Sort by Relevance' and 'Lib4RI' (LIB4RI EAWAG-EMPA, LIB4RI PSI, LIB4RI WSL, swisscovery Libraries). The main results area shows '2 versions found. See all versions >'. The first result is 'Nanomaterials : Risks and Benefits' by Linkov, Igor; NATO; NATO Advanced Research Workshop on Nanomaterials: Environmental Risks and Benefits. The second result is 'Impact of engineered nanomaterials on health : con benefit-risk assessment' by Luxembourg : Publications Office of the European Union. The third result is 'Nanomaterials : : risks and benefits' by NATO Advanced Research Workshop on Nanomaterials: Environment Faro, Portugal). Red boxes highlight the search bar, the 'swisscovery without CDI' dropdown, and the '2 versions found' link. A green arrow points from the '2 versions found' link to the third result.

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The screenshot shows the 'Nanomaterials : Risks and Benefits' book page. The page includes a 'Pick up on site' section with a 'Sign in' button. Below this is a 'Document Delivery Service (only for members of Eawag, Empa, PSI & WSL)' section. The 'Pick up on site at other libraries' section shows 'ETH Zürich' and 'Region Basel' as available institutions. The 'Further request options' section shows 'Request by courier or postal delivery' and 'Get a partial digitization' options. A red box highlights the 'Request by courier or postal delivery' section, which includes a 'Request' button. A green arrow points from the '2 versions found' link in the previous screenshot to this page.

Searching - Book Chapters

Reyes, C. and Meister, P. (2022). The Role of Microorganisms in Iron Reduction in Marine Sediments. In Systems Biogeochemistry of Major Marine Biomes (eds A. Mazumdar and W. Ghosh).

Books etc.

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- *Marine microbiology : ecology & applications.* Garland Science, an imprint of Taylor and Francis; 2011.
- *Systems Biogeochemistry of Major Marine Biomes.* John Wiley & Sons, Incorporated; 2022.
- *Advances in Microbial Ecology.* Springer US; 2000.
- *Psychrophiles: From Biodiversity to Biotechnology.* Springer Berlin Heidelberg; 2008.
- *Biogeochemistry of ancient and modern environments : proceedings of the Fourth International Symposium on Environmental Biogeochemistry (ISEB) and Conference on Biogeochemistry in relation to the mining industry and environmental pollution.* Springer-Verlag; 1980.
- *Biomineralization and biological metal accumulation : biological and geological perspectives : papers presented at the fourth International Symposium on Biomineralization, Renesse, the Netherlands, June 2-5, 1982.* D. Reidel Publishing Company; 1983.

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Marine microbiology : ecology & applications
Munn, C B

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1

2

BOOK

Systems Biogeochemistry of Major Marine Biomes.
Mazumdar, Aninda
Newark : : John Wiley & Sons, Incorporated, 2022.; ©2022.
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Systems Biogeochemistry of Major Marine Biomes.
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Title	Systems Biogeochemistry of Major <u>Marine</u> Biomes.
Publication	Newark : : John Wiley & Sons, Incorporated,
Edition	2022. ©2022.
Format	1 online resource (333 pages)
Language	English
Contains	Cover Title Page Copyright Page Contents List of Contributors Preface Biome I Continental Margins 1 Biogeochemistry of Marine Oxygen Minimum Zones with Special Emphasis on the Northern Indian Ocean 1.1 Introduction 1.1.1 The Arabian Sea Oxygen Minimum Zone 1.1.2 The Bay of Bengal Oxygen Minimum Zone 1.2 Preservation of Organic matter and Sediment Biogeochemistry 1.3 Pore Fluid Geochemistry 1.4 Sedimentary Sulfidization and Sulfurization 1.5 Benthic Biology 1.6 Microbial Metabolism in the Marine Oxygen Minimum Zone Water Column and Sediment 1.7 Nitrogen Metabolism in the Marine Marine Oxygen Minimum Zone Water Column 1.8 Microbiological Perspective of Sulfur Metabolism in the Marine Oxygen Minimum Zone Water Column 1.9 Microbiology of Methane Cycling in the Oxygen Minimum Zone Water Column 1.10 Microbial Metabolism in Marine Oxygen Minimum Zone Sediments 1.11 Oxygen Minimum Zone expansion 1.12 Conclusion Acknowledgment References 2 Sedimentary Records of Present and Past Marine Sulfur Cycling 2.1. Introduction 2.2. Stable Sulfur Isotopes - a Tool for Reconstructing Spatial and Temporal Changes in Sulfur Cycling 2.3. The Modern Marine Realm 2.4. Oceanic Sulfate and its Evolution Through Time 2.5. Pyrite and Organic-Bound Sulfur as Recorders of Microbial Sulfur Cycling in the Past 2.6. Mass-Independently Fractionated Sulfur Isotopes - a record of Earth's Oxygenation 2.7. Summary and Direction of Future Research Acknowledgments References 3 The Role of Microorganisms in Iron Reduction in Marine Sediments 3.1. INTRODUCTION 3.2. THE REDOX ZONES IN SHALLOW MARINE SEDIMENTS

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Replaces: DIN EN ISO 18265 (2004-02)
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Version History: DIN EN ISO 18265 (2014-02)
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- Bryner A. The ugly ducklings: biofilms in bath toys. *Eawag Newsletter [engl. Ed.]* 2018.
- Neu L, Bänziger C, Proctor CR, Zhang Y, Liu W-T, Hammes F. Ugly ducklings - the dark side of plastic materials in contact with potable water. *Npj Biofilms and Microbiomes* 2018. <https://doi.org/10.1038/s41522-018-0050-9>.

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Ugly ducklings - the dark side of plastic materials in contact with potable water

Neu L, Bänziger C, Proctor CR, Zhang Y, Liu W-T & Hammes F

APA

Citation Neu, L., Bänziger, C., Proctor, C. R., Zhang, Y., Liu, W. T., & Hammes, F. (2018). Ugly ducklings - the dark side of plastic materials in contact with potable water. *npj Biofilms and Microbiomes*, 4(1), 7 (11 pp.). <https://doi.org/10.1038/s41522-018-0050-9>



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Bath toys pose an interesting link between flexible plastic materials, potable water, external microbial and nutrient contamination, and potentially vulnerable end-users. Here, we characterized biofilm communities inside 19 bath toys used under real conditions. In addition, some determinants for biofilm formation were assessed, using six identical bath toys under controlled conditions with either clean water prior to bathing or dirty water after bathing. All examined bath toys revealed notable biofilms on their inner surface, with average total bacterial numbers of 5.5×10^6 cells/cm² (clean water controls), 9.5×10^6 cells/cm² (real bath toys), and 7.3×10^7 cells/cm² (dirty water controls). Bacterial community compositions were diverse, showing many rare taxa in real bath toys and rather distinct communities in control bath toys, with a noticeable difference between clean and dirty water control biofilms. Fungi were identified in 58% of all real bath toys and in all dirty water control toys. Based on the comparison of clean water and dirty water control bath toys, we argue that bath toy biofilms are influenced by (1) the organic carbon leaching from the flexible plastic material, (2) the chemical and biological tap water quality, (3) additional nutrients from care products and human body fluids in the bath water, as well as, (4) additional bacteria from dirt and/or the end-users' microbiome. The present study gives a detailed characterization of bath toy biofilms and a better understanding of determinants for biofilm formation and development in systems comprising plastic materials in contact with potable water.

[Details](#)

Publication Type	Journal Article
Title	Ugly ducklings - the dark side of plastic materials in contact with potable water
Author(s)	Neu, Lisa (Environmental Microbiology UMIK) Bänziger, Carola (Environmental Microbiology UMIK) Proctor, Caitlin R. (Environmental Microbiology UMIK) Zhang, Ya Liu, Wen-Tso Hammes, Frederik (Environmental Microbiology UMIK)
Journal	npj Biofilms and Microbiomes
Volume	4
Issue	1

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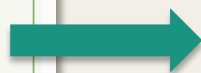
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- Roels E, Terryn S, Iida F, Bosman AW, Norvez S, Clemens F, Van Assche G, Vanderborght B, Brancart J. [Processing of self-healing polymers for soft robotics](#) 2022.
- Terryn S, Langenbach J, Roels E, Brancart J, Bakkali-Hassani C, Poutrel Q-A, Georgopoulou A, George Thuruthel T, Safaei A, Ferrentino P, Sebastian T, Norvez S, Iida F, Bosman AW, Tournilhac F, Clemens F, Van Assche G, Vanderborght B. [A review on self-healing polymers for soft robotics](#) 2021.


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A review on self-healing polymers for soft robotics

Terryn S, Langenbach J, Roels E, Brancart J, Bakkali-Hassani C, Poutrel Q-A, [Georgopoulou A](#), George Thuruthel T, Safaei A, Ferrentino P, Sebastian T, Norvez S, Iida F, Bosman AW, Tournilhac F, [Clemens F](#), Van Assche G & Vanderborght B

Citation Terryn, S., Langenbach, J., Roels, E., Brancart, J., Bakkali-Hassani, C., Poutrel, Q. A., ... Vanderborght, B. (2021). A review on self-healing polymers for soft robotics. *Materials Today*, 47, 187-205. <https://doi.org/10.1016/j.matmod.2021.01.009>

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The intrinsic compliance of soft robots provides safety, a natural adaptation to its environment, allows to absorb shocks, and protects them against mechanical impacts. However, a literature study shows that the soft polymers used for their construction are susceptible to various types of damage, including fatigue, overloads, interfacial debonding, and cuts, tears and perforations by sharp objects. An economic and ecological solution is to construct future soft robotic systems out of self-healing polymers, incorporating the ability to heal damage. This review paper proposes criteria to evaluate the potential of a self-healing polymer to be used in soft robotic applications. Based on these soft robotics requirements and on defined performance parameters of the materials, linked to the mechanical and healing properties, the different types of self-healing polymers already available in literature are critically assessed and compared. In addition to a description of the state of the art on self-healing soft robotics, the paper discusses the driving forces and limitations to spur the interdisciplinary combination between self-healing polymer science and soft robotics.

Publication Type [Journal Article](#)

Title A review on self-healing polymers for soft robotics


Author(s) Terryn, Seppe
Langenbach, Jakob
Roels, Ellen
Brancart, Joost
Bakkali-Hassani, Camille
Poutrel, Quentin-Arthur
[Georgopoulou, Antonia](#) (201 High Performance Ceramics)
George Thuruthel, Thomas
Safaei, Ali
Ferrentino, Pasquale
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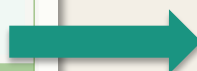
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- Cui J, Huang T-Y, Luo Z, Testa P, Gu H, Chen X-Z, Nelson BJ, Heyderman LJ. Nanomagnetic encoding of shape-morphing micromachines 2019.

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Nanomagnetic encoding of shape-morphing micromachines

Cui J, Huang T-Y, Luo Z, Testa P, Gu H, Chen X-Z, Nelson BJ & Heyderman LJ

APA

Citation

Cui, J., Huang, T. Y., Luo, Z., Testa, P., Gu, H., Chen, X. Z., ... Heyderman, L. J. (2019). Nanomagnetic encoding of shape-morphing micromachines. *Nature*, 575(7781), 164-168. <https://doi.org/10.1038/s41586-019-1713-2>

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Shape-morphing systems, which can perform complex tasks through morphological transformations, are of great interest for future applications in minimally invasive medicine, soft robotics, active metamaterials and smart surfaces. With current fabrication methods, shape-morphing configurations have been embedded into structural design by, for example, spatial distribution of heterogeneous materials, which cannot be altered once fabricated. The systems are therefore restricted to a single type of transformation that is predetermined by their geometry. Here we develop a strategy to encode multiple shape-morphing instructions into a micromachine by programming the magnetic configurations of arrays of single-domain nanomagnets on connected panels. This programming is achieved by applying a specific sequence of magnetic fields to nanomagnets with suitably tailored switching fields, and results in specific shape transformations of the customized micromachines under an applied magnetic field. Using this concept, we have built an assembly of modular units that can be programmed to morph into letters of the alphabet, and we have constructed a microscale 'bird' capable of complex behaviours, including 'flapping', 'hovering', 'turning' and 'side-slipping'. This establishes a route for the creation of future intelligent microsystems that are reconfigurable and reprogrammable in situ, and that can therefore adapt to complex situations.

Details

Publication Type

Journal Article

Title

Nanomagnetic encoding of shape-morphing micromachines

Author(s)

Cui, Jizhai (3701 Mesoscopic Systems)
Huang, Tian-Yun
Luo, Zhaochu (3701 Mesoscopic Systems)
Testa, Paolo (3701 Mesoscopic Systems)
Gu, Hongri
Chen, Xiang-Zhong
Nelson, Bradley J.
Heyderman, Laura J. (3700 Multiscale Materials Experiments)

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- Ayala Álvaro, Farías-Barahona D, Huss M, Pellicciotti F, McPhee J, Farinotti D. [Glacier runoff variations since 1955 in the Maipo River basin, in the semi-arid Andes of central Chile 2020.](#)

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Glacier runoff variations since 1955 in the Maipo River basin, in the semi-arid Andes of central Chile

Ayala Á, Farías-Barahona D, Huss M, Pellicciotti F, McPhee J & Farinotti D

APA

Citation

Ayala, Á., Farías-Barahona, D., Huss, M., Pellicciotti, F., McPhee, J., & Farinotti, D. (2020). Glacier runoff variations since 1955 in the Maipo River basin, in the semi-arid Andes of central Chile. *Cryosphere*, 14(6), 2005-2027. <https://doi.org/10.5194/tc-14-2005-2020>

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As glaciers adjust their size in response to climate variations, long-term changes in meltwater production can be expected, affecting the local availability of water resources. We investigate glacier runoff in the period 1955–2016 in the Maipo River basin (4843 km², 33.0–34.3° S, 69.8–70.5° W), in the semi-arid Andes of Chile. The basin contains more than 800 glaciers, which cover 378 km² in total (inventoried in 2000). We model the mass balance and runoff contribution of 26 glaciers with the physically oriented and fully distributed TOPKAPI (Topographic Kinematic Approximation and Integration)-ETH glacio-hydrological model and extrapolate the results to the entire basin. TOPKAPI-ETH is run at a daily time step using several glaciological and meteorological datasets, and its results are evaluated against streamflow records, remotely sensed snow cover, and geodetic mass balances for the periods 1955–2000 and 2000–2013. Results show that in 1955–2016 glacier mass balance had a general decreasing trend as a basin average but also had differences between the main sub-catchments. Glacier volume decreased by one-fifth (from 18.6±4.5 to 14.9±2.9 km³). Runoff from the initially glacierized areas was 177±25 mm yr⁻¹ (16±7 % of the total contributions to the basin), but it shows a decreasing sequence of maxima, which can be linked to the interplay between a decrease in precipitation since the 1980s and the reduction of ice melt. Glaciers in the Maipo River basin will continue retreating because they are not in equilibrium with the current climate. In a hypothetical constant climate scenario, glacier volume would reduce to 81±38 % of the year 2000 volume, and glacier runoff would be 78±30 % of the 1955–2016 average. This would considerably decrease the drought mitigation capacity of the basin.

Details

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Glacier runoff variations since 1955 in the Maipo River basin, in the semi-arid Andes of central Chile

Author(s)

Ayala, Álvaro (Mountain Hydrology and Mass Movements)
Farías-Barahona, David
Huss, Matthias (Mountain Hydrology and Mass Movements)
Pellicciotti, Francesca (Mountain Hydrology and Mass Movements)
McPhee, James
Farinotti, Daniel (Mountain Hydrology and Mass Movements)

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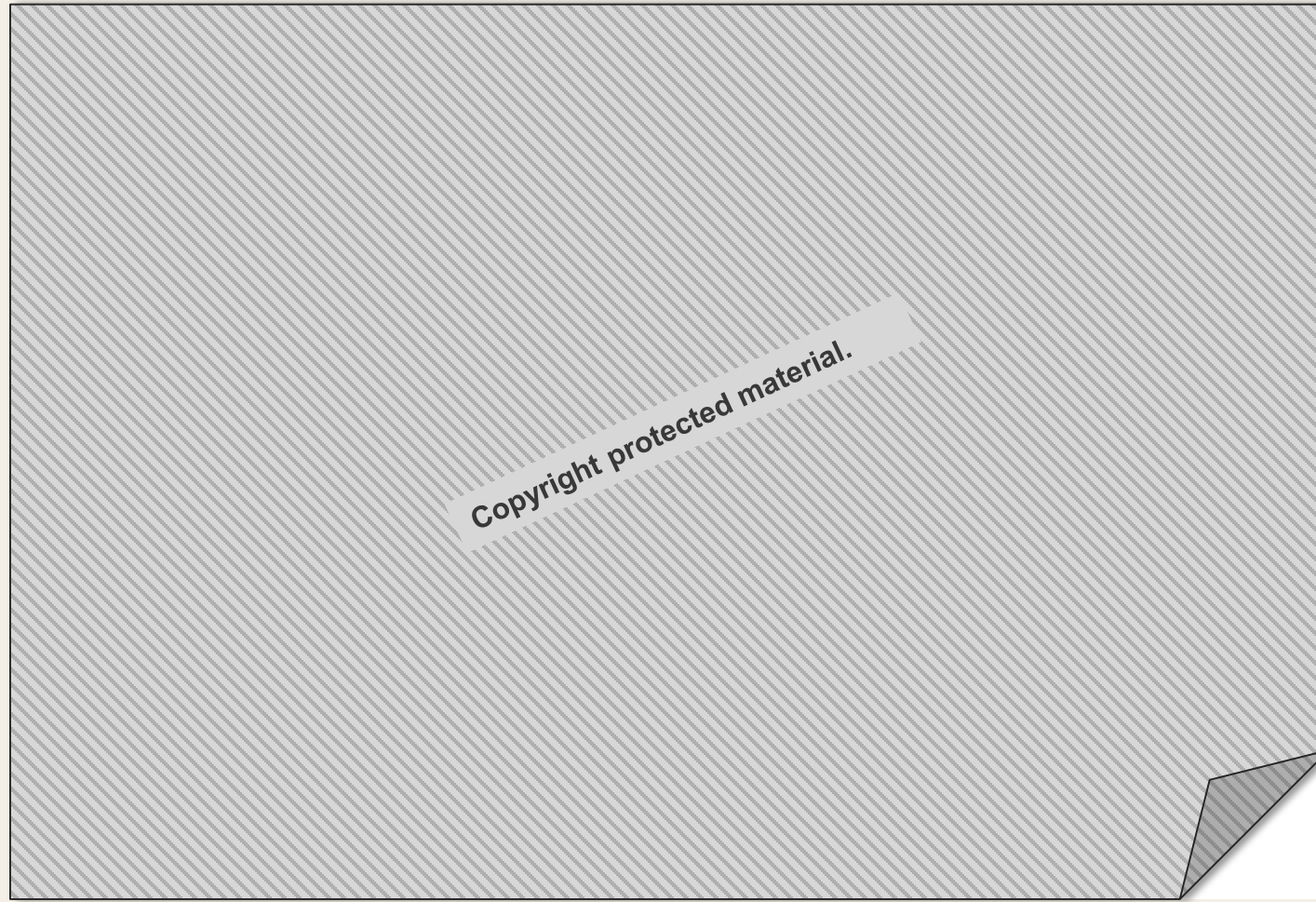
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