



Nature Water

A journal for all water-related research

Fabio Pulizzi

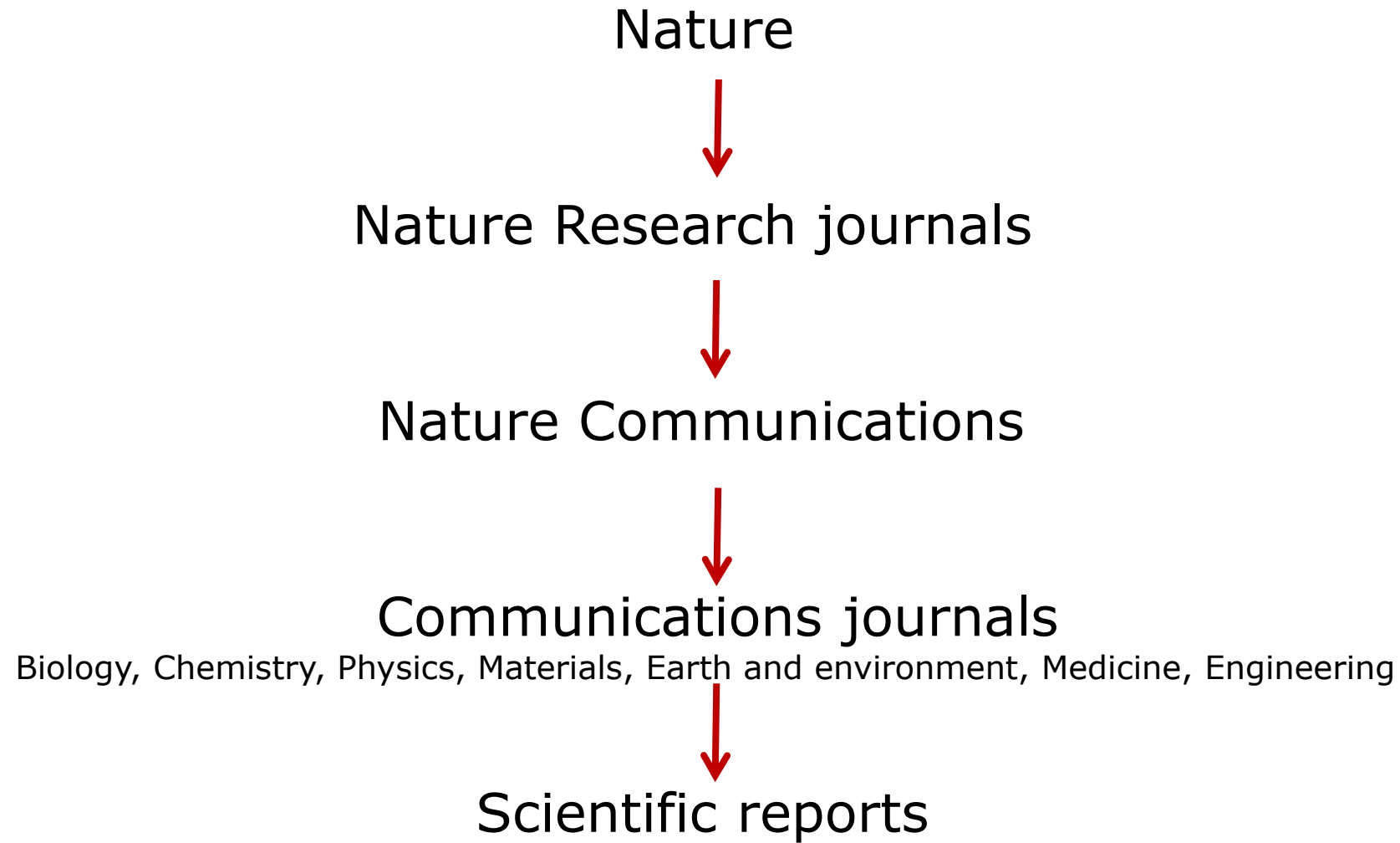
Chief Editor, Nature Water

Looking for impact



- Highly selective — only a fraction of submissions are published
- High impact
- Each journal is run by team of full-time, professional editors
- Journals are independent from each other — rejection from one doesn't prejudice consideration by another

- Original and technically sound
- *Substantial advance, Conceptually novel, Unexpected discovery*
- Broad interest / practical applicability
- **It is likely to have impact. Of high enough significance that non-specialists can appreciate**



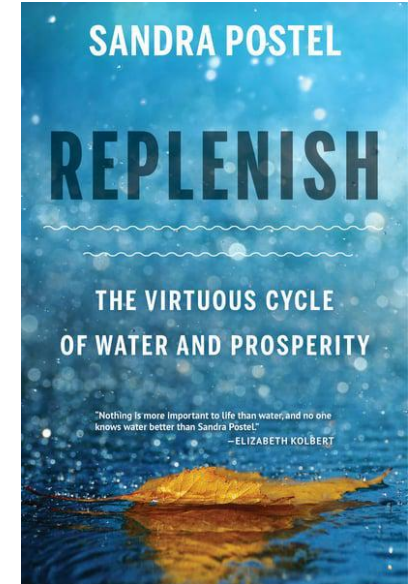


The scope of
Nature Water

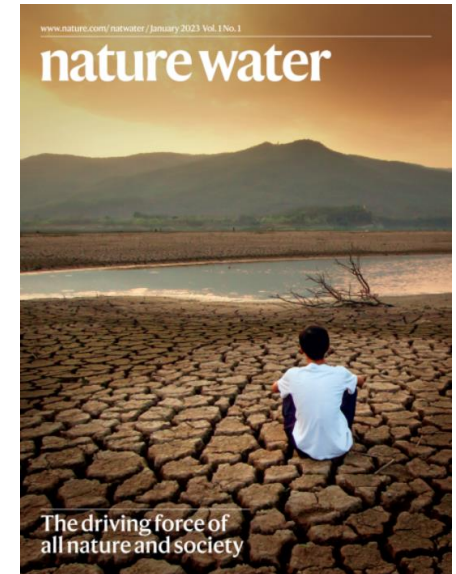
A multi- and interdisciplinary research field

“Fortunately, just when it’s crucially needed, a new mind-set about water is taking shape. It’s one that blends engineering, ecology, economics, and related fields into a more holistic approach that recognizes the fundamental value of nature’s services.”

Sandra Postel, in “Replenish”, 2017



- *Nature Water* is a thematic journal covering the evolving relationship between society and water resources
- *Nature Water* publishes in the natural sciences (primarily earth and environmental science), in engineering (including environmental, civil, chemical and materials engineering), and in the social sciences (economics, human geography and sociology, among other disciplines).
- Our aim is to publish studies that will have an impact on fundamental understanding, on practical technological applications and on the potential for policy implementation.
- 1st issue, January 2023
- 4 editors (Chief editor and 3 associates)



Editorial team



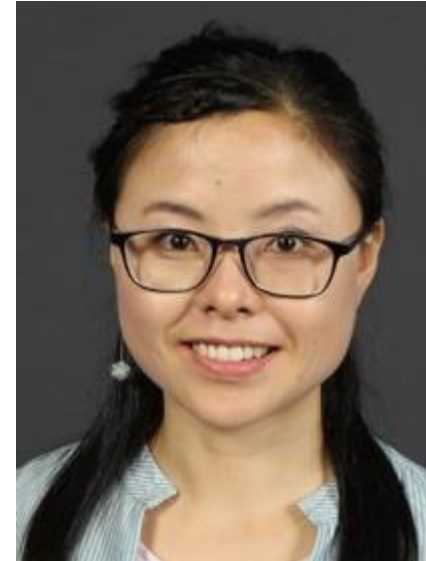
Fabio Pulizzi

Degree, University of Rome La
Sapienza, Italy
PhD, University of Nijmegen,
the Netherlands



Yanhua Chen

Degree ,ETH Zürich, Switzerland
PhD, Paul Scherrer Institute and
the University of Bern,
Switzerland



Shujuan Zhang

Degree, Chinese Academy of
Sciences, China
PhD, Stevens Institute of
Technology, USA



Karin Sjöstrand

Degree, Lund University
Sweden
PhD Chalmers University
of Technology, Sweden

Nature Water thematic areas

Water resources research – hydrology, hydrogeology, limnology, modelling, water in a changing climate, flooding, droughts, etc.

Water and wastewater treatment and distribution – treatment processes for drinking water, industrial water, and wastewater; centralized and decentralized systems; water system engineering, water infrastructure, pollution remediation in natural resources, etc.

Water for energy, food and climate – irrigation; water consumption in food and energy production; integrated clean water and energy production; sustainable and efficient water use, water sector decarbonisation, etc.

Water and public health – safe drinking-water, sanitation and hygiene (WASH); health risks; wastewater epidemiology; waterborne diseases; water availability and dehydration, etc.

Water resources planning and management – water governance; policies; planning and decision-making processes and tools; environmental, social and economic assessments of management options, etc.

Water and society – political, legal, economic and social aspects of water use and management; water justice; social acceptability; water conflicts; stakeholder involvement, etc.

Article

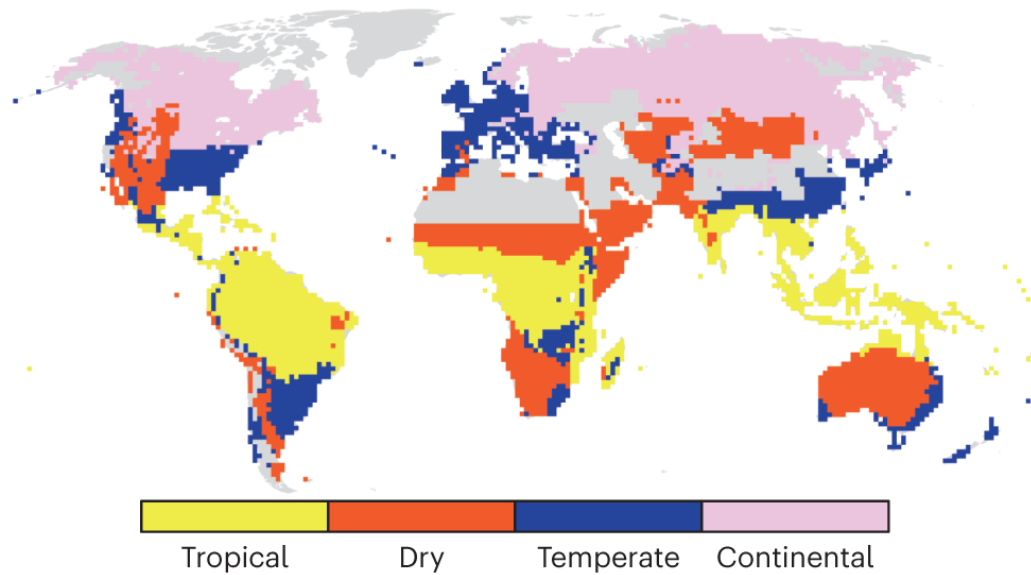
<https://doi.org/10.1038/s44221-023-00040-5>

Changing intensity of hydroclimatic extreme events revealed by GRACE and GRACE-FO

Received: 19 September 2022

Matthew Rodell¹ & Bailing Li^{1,2}

Accepted: 3 February 2023



Article

<https://doi.org/10.1038/s44221-022-00022-z>

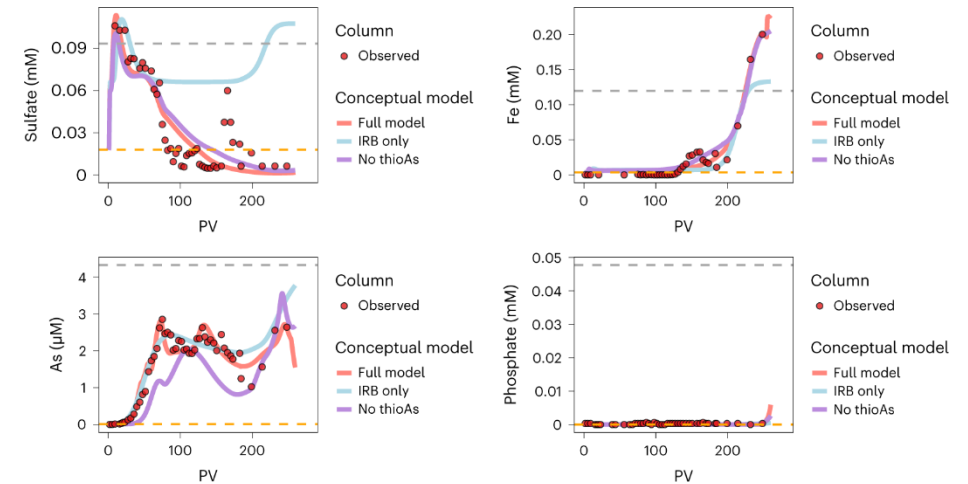
Sulfate reduction accelerates groundwater arsenic contamination even in aquifers with abundant iron oxides

Received: 19 August 2022

Athena A. Nghiem^{1,2,7,8}, Henning Prommer^{3,4}, M. Rajib H. Mozumder^{1,2,5}, Adam Siade^{3,4}, James Jamieson^{3,4}, Kazi Matin Ahmed⁶, Alexander van Geen² & Benjamin C. Bostick²

Accepted: 19 December 2022

Published online: 16 February 2023



Article

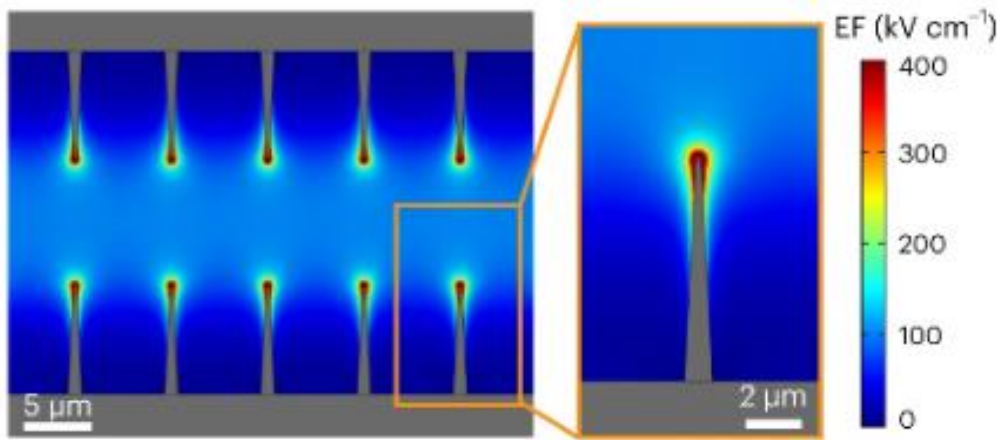
<https://doi.org/10.1038/s44221-022-00003-2>

Nanosecond bacteria inactivation realized by locally enhanced electric field treatment

Received: 29 March 2022

Ting Wang¹ & Xing Xie^{1,2} ✉

Accepted: 31 October 2022



Analysis

<https://doi.org/10.1038/s44221-023-00037-0>

Performance metrics for nanofiltration-based selective separation for resource extraction and recovery

Received: 17 August 2022

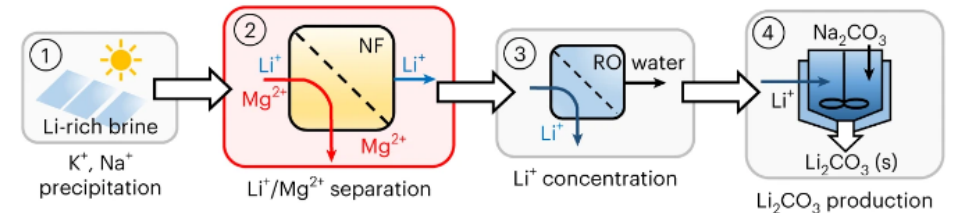
Ruoyu Wang¹, Rongrong He², Tao He², Menachem Elimelech³ & Shihong Lin^{1,4} ✉

Accepted: 27 January 2023

Applications of solute–solute separation

Function	Improve		Enable	
Example	Water softening	Pollutant removal	Mg/Li separation	Acid (or base) recovery
Main product	Water		Target ions	
Permeating solutes	Monovalent ions	Mineral ions	Li ⁺	H ⁺ (or OH ⁻)
Retained solutes	Divalent cations	Pollutants	Mg ²⁺	Co-ions

Process intensification for Li extraction



Analysis

<https://doi.org/10.1038/s44221-022-00004-1>

A global-scale framework for hydropower development incorporating strict environmental constraints

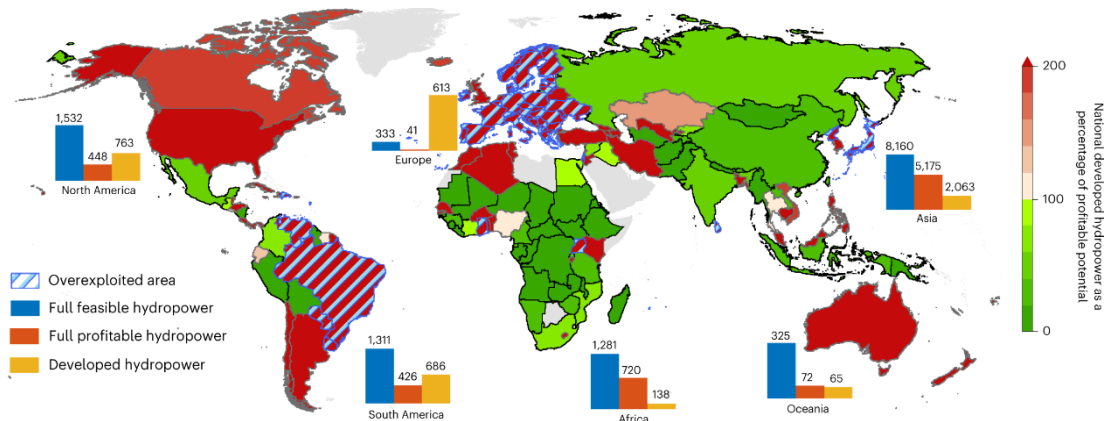
Received: 28 April 2022

Accepted: 3 November 2022

Published online: 16 January 2023

Check for updates

Rongrong Xu¹, Zhenzhong Zeng¹✉, Ming Pan^{2,3}, Alan D. Ziegler⁴, Joseph Holden⁵, Dominick V. Spracklen⁶, Lee E. Brown⁷, Xinyue He^{1,6}, Deliang Chen⁷, Bin Ye¹, Haiwei Xu⁸, Sonia Jerez⁹, Chunmiao Zheng¹, Junguo Liu^{1,10}, Peirong Lin¹¹, Yuan Yang^{3,12}, Junyu Zou¹, Dashan Wang¹, Mingyi Gu^{1,3}, Zongliang Yang^{1,4}, Dongfeng Li¹⁵, Junling Huang¹⁶, Venkataraman Lakshmi¹⁷ & Eric. F. Wood^{2,18}



Article

<https://doi.org/10.1038/s44221-022-00021-0>

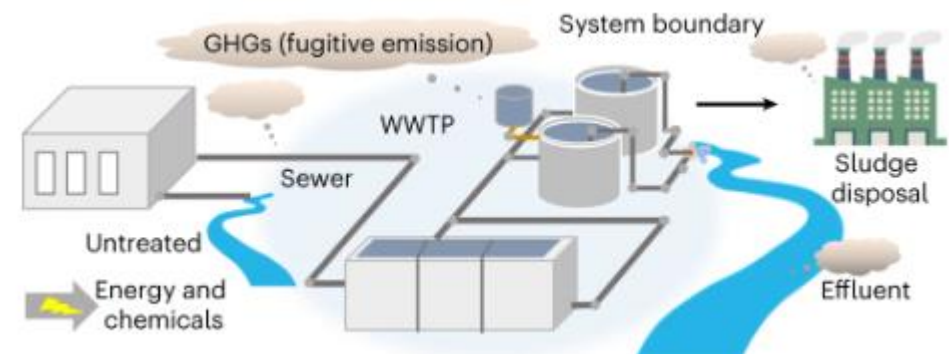
Spatiotemporal pattern of greenhouse gas emissions in China's wastewater sector and pathways towards carbon neutrality

Received: 24 March 2022

Accepted: 16 December 2022

Published online: 26 January 2023

Wen-Jie Du^{1,2,6}, Jia-Yuan Lu^{1,6}, Yi-Rong Hu^{1,3}, Juanxiu Xiao⁴, Cheng Yang¹, Jie Wu¹, Baocheng Huang⁵, Shuo Cui^{1,3}, Yang Wang² & Wen-Wei Li^{1,3}✉



Article

<https://doi.org/10.1038/s44221-023-00033-4>

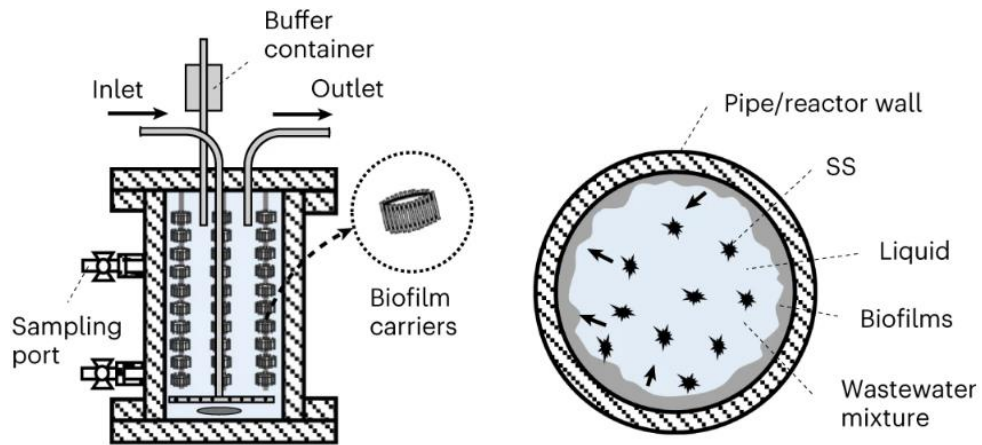
Impact of sewer biofilms on fate of SARS-CoV-2 RNA and wastewater surveillance

Received: 31 May 2022

Accepted: 11 January 2023

Published online: 09 February 2023

Jiaying Li¹, Warish Ahmed², Suzanne Metcalfe², Wendy J. M. Smith², Phil M. Choi³, Greg Jackson³, Xiaotong Cen⁴, Min Zheng⁴, Stuart L. Simpson⁵, Kevin V. Thomas¹, Jochen F. Mueller¹ & Phong K. Thai¹



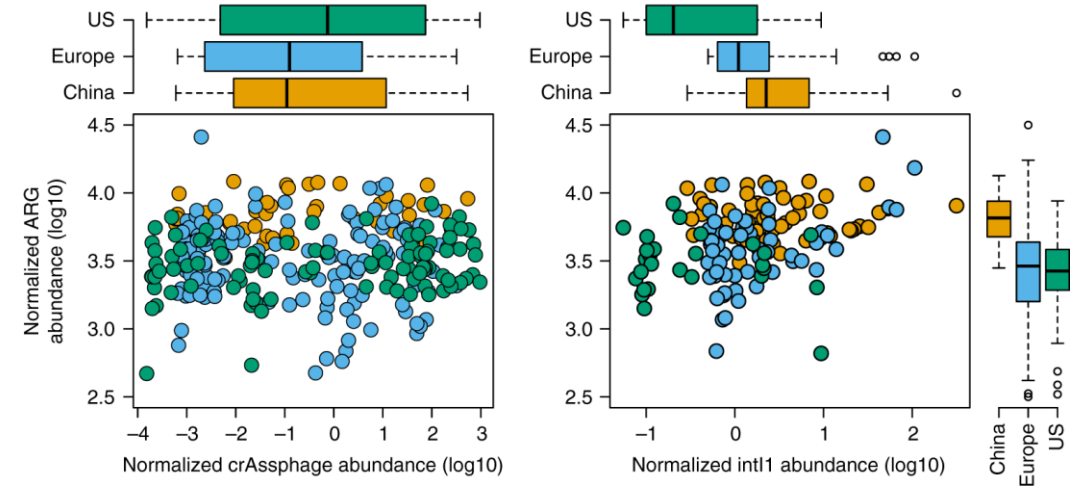
ARTICLE

<https://doi.org/10.1038/s41467-018-07992-3>

OPEN

Fecal pollution can explain antibiotic resistance gene abundances in anthropogenically impacted environments

Antti Karkman^{1,2,3}, Katariina Pärnänen⁴ & D.G.Joakim Larsson^{1,2}



Analysis

<https://doi.org/10.1038/s44221-022-00017-w>

Dynamic adaptive engineering pathways for mitigating flood risks in Shanghai with regret theory

Received: 3 July 2022

Accepted: 27 November 2022

Published online: 13 February 2023

Zhan Tian¹, David Ramsbottom², Laixiang Sun^{3,4,5}✉, Yijing Huang⁶, Huan Zou³ & Junguo Liu^{1,7}



Article

<https://doi.org/10.1038/s44221-023-00030-7>

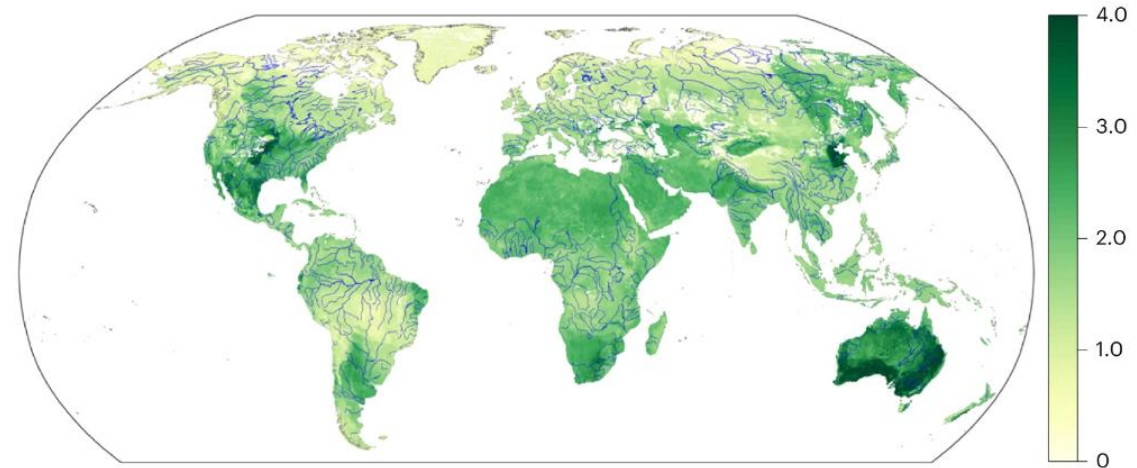
Future global streamflow declines are probably more severe than previously estimated

Received: 26 June 2022

Accepted: 11 January 2023

Published online: 02 February 2023

Yongqiang Zhang¹✉, Hongxing Zheng², Xuanze Zhang¹, L. Ruby Leung³, Changming Liu¹, Chunmiao Zheng⁴, Yuhan Guo¹, Francis H. S. Chiew², David Post², Dongdong Kong⁵, Hylke E. Beck⁶, Congcong Li^{1,7} & Günter Blösch⁸✉



Article

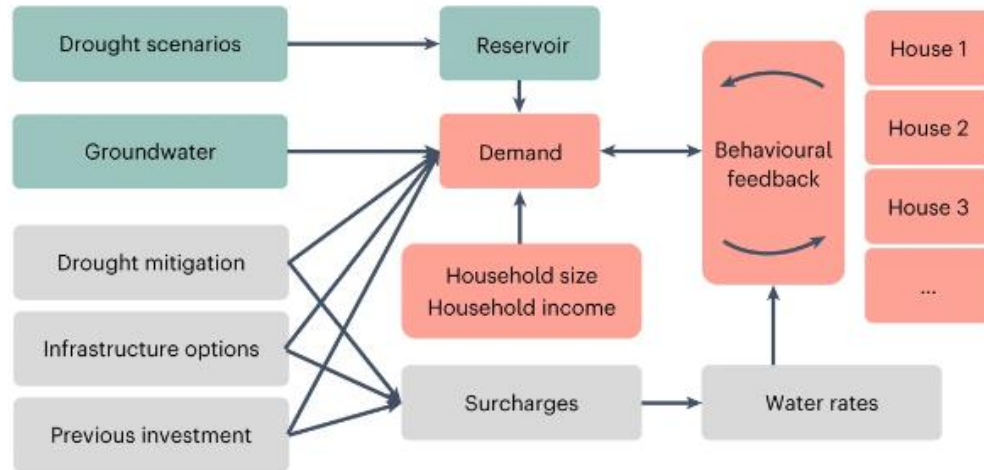
<https://doi.org/10.1038/s44221-022-00009-w>

Socio-hydrological drought impacts on urban water affordability

Received: 30 May 2022

Benjamin Rachunok¹ & Sarah Fletcher^{1,2}

Accepted: 24 November 2022



Article

<https://doi.org/10.1038/s44221-023-00062-z>

Boil water alerts and their impact on the unexcused absence rate in public schools in Jackson, Mississippi

Received: 17 September 2022

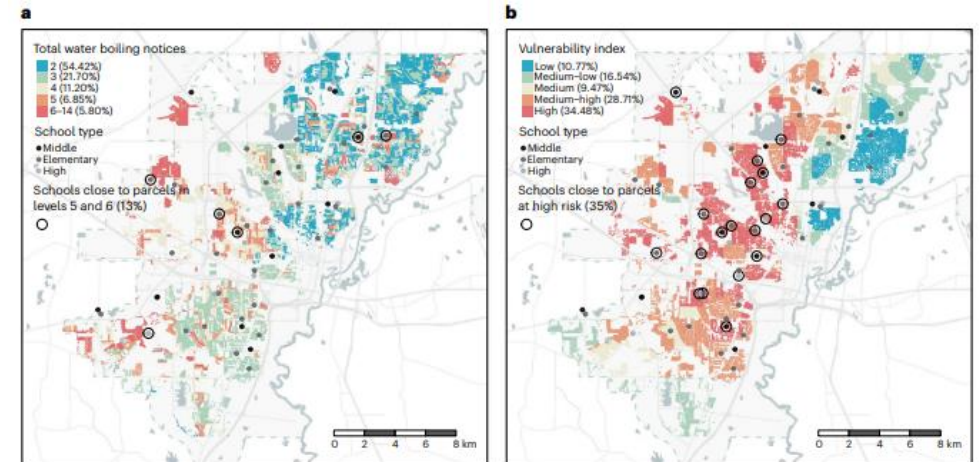
M. Kim¹, R. De Vito², F. Duarte³, K. Tieskens⁴, M. Luna⁵, A. Salazar-Miranda³,

Accepted: 6 March 2023

M. Mazzarello³, S. Showalter Otts⁶, C. Etzel⁶, S. Burks⁷, K. Crossley⁷,

Published online: 06 April 2023

N. Franzen Lee⁷ & E. D. Walker⁷ ✉




Comment

<https://doi.org/10.1038/s44221-023-00048-x>

Climate policy is inundating the SDGs

John H. Matthews

 Check for updates


News & views

Hydroclimatology

<https://doi.org/10.1038/s44221-023-00047-y>

Floods and droughts are intensifying globally

Melissa M. Rohde

 Check for updates


World view

<https://doi.org/10.1038/s44221-023-00035-2>

Water is life, particularly for women




By Bethany A. Caruso

 Check for updates

DOWN TO BUSINESS

 Check for updates

The emerging commercial landscape of quantum computing

Evan R. MacQuarrie , Christoph Simon, Stephanie Simmons and Elicia Maine

These technologies require less capital to develop than hardware ventures, which allowed software firms to proliferate once commercial cloud QC could provide a platform on which to develop their technologies.

Patent trends

Further insight into this rapid expansion of the quantum industry can be gained by looking at the number of patent applications by different firms across the globe. Following the search methodology

Review Article

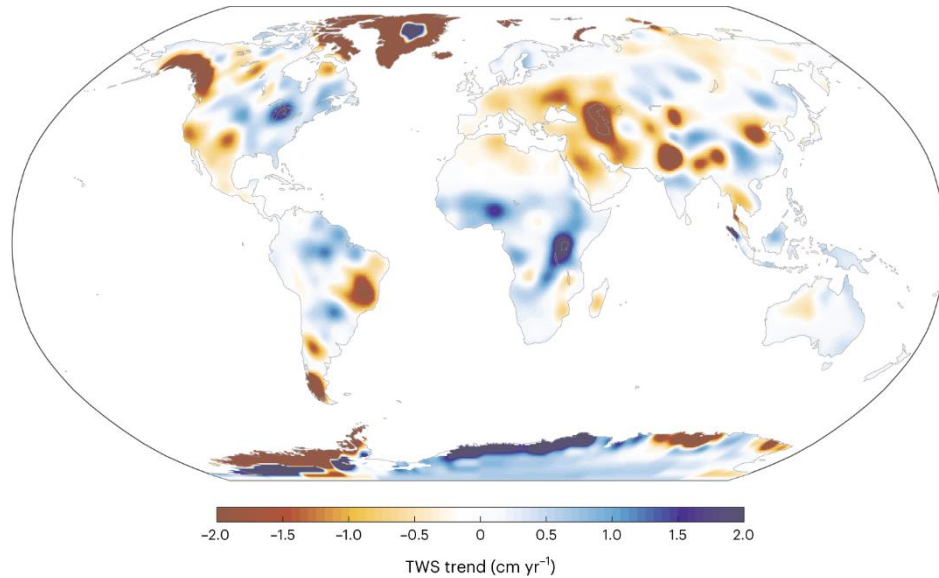
<https://doi.org/10.1038/s44221-022-00005-0>

Water cycle science enabled by the GRACE and GRACE-FO satellite missions

Received: 19 August 2022

Matthew Rodell¹✉ & John T. Reager²

Accepted: 16 November 2022



Perspective

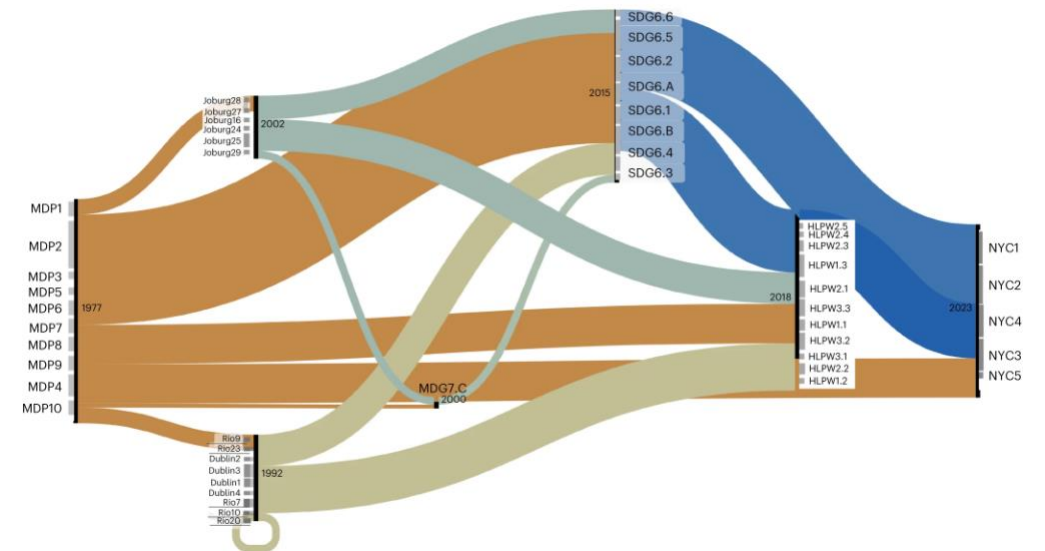
<https://doi.org/10.1038/s44221-023-00041-4>

Goals, progress and priorities from Mar del Plata in 1977 to New York in 2023

Received: 9 December 2022

R. Quentin Grafton¹✉, Asit K. Biswas^{2,7}, Hilmer Bosch^{3,7}, Safa Fanaian^{4,7},
Joyeeta Gupta^{4,7}, Aromar Revi^{5,7}, Neha Sami^{5,7} & Cecilia Tortajada^{6,7}

Accepted: 2 February 2023

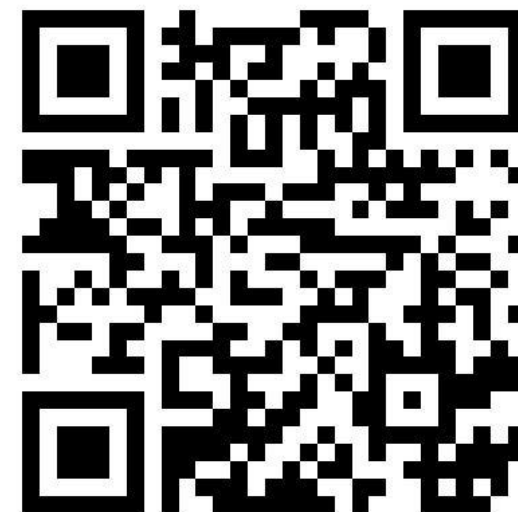


Collection | 13 March 2023

Research in support of the UN 2023 Water Conference

Water is central to sustainable development, and is crucial for public health as well as socio-economic development and healthy ecosystems. Yet progress on water-related goals and targets is nowhere near where it should be. On March 22-24, 2023, the world will gather in New York for the UN 2023 Water Conference to create momentum for accelerated action to combat the water challenges. To highlight the importance of research and scientific evidence in addressing the water-related challenges, we present a new compilation of research articles from across the Nature Portfolio that corresponds to the dialogue themes of the conference.

<https://www.nature.com/collections/jggcdacijj>



Engaging the community

High-molecular-weight disinfection by-products

William Mitch and Susan Richardson



Series: Nature Water Talks
Host: Nature Water
Date: Wednesday, May 10, 2023 3:00 PM (Europe/London)
Link: cassyni.com/events/QfXMU124kKh67MPifdomJT



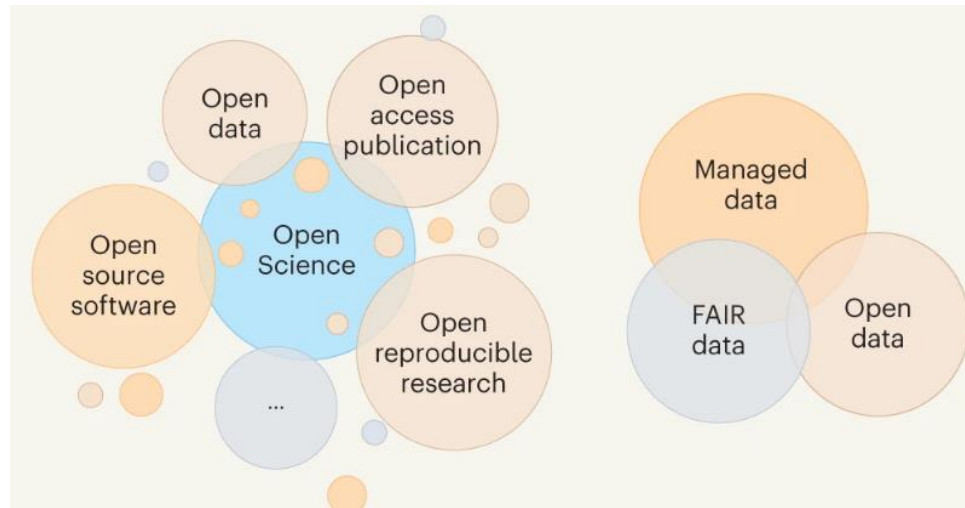
Comment

<https://doi.org/10.1038/s44221-022-00014-z>

Water science must be Open Science

Emma L. Schymanski & Stanislaus J. Schymanski

Check for updates



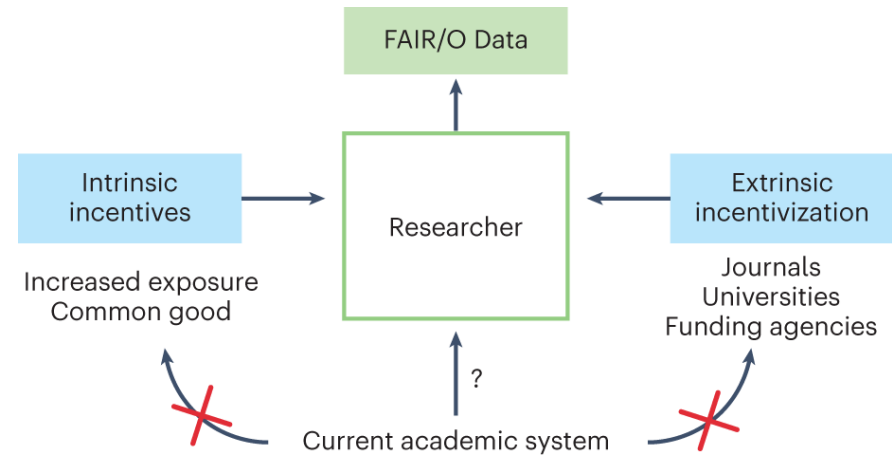
Comment

<https://doi.org/10.1038/s44221-022-00012-1>

FAIR and Open Data requires proper incentives and a shift in academic culture

Rhea Verbeke

Check for updates



- Manuscript is submitted (cover letter, reviewers suggestions request for exclusions, potential duplicate submission)
- 1st decision: back to authors or to reviewers – ***Nature Water* will aim at 5-7 days**
- Selection of reviewers: usually 3, careful editorial choice
- Decision after review: arguments, no counting votes – ***Nature Water* will aim at 40-45 days**
- Reject or revise – long or short term revision
- Publication after at least 2 rounds – on average 6 months but we'll aim for less
- Potential for appeal – No editorial board

What we have not discussed

- Editorial process
- Relationship with other Nature journals
- Appeals
- Double blind peer review
- Many more things

- Our reputation stems from the work submitted by the authors
- We depend on thorough referees to detect and improve suitable papers
- We would fail without support from the community

THANK YOU !

f.pulizzi@nature.com
<https://www.nature.com/natwater/>
<https://mobile.twitter.com/naturewaterjnl>

Personal linkedin
<https://www.linkedin.com/in/fabio-pulizzi-a6454879/?originalSubdomain=uk>





Our editorial process