Search

FARZAD	
Search	
Advanced search	
Journal	
All	~
Article type	
All	~
Subject	
All	~
Date	
All	~
	Clear all filters
Sort by:	
Relevance	
O Date published (new to old)	
O Date published (old to new)	
152 results	

Searching for better flu surveillance? A brief communication arising from Ginsberg et al. Nature 457, 1012-1014 (2009)

Donald Olson, Atar Baer ... Farzad Mostashari

Research Open Access 05 Aug 2009 Nature Precedings P: 1

Quantum sensing for gravity cartography

A study reports a quantum gravity gradient sensor with a design that

eliminates the need for long measurement times, and demonstrates the detection of an underground tunnel in an urban environment.	
Ben Stray, Andrew Lamb Michael Holynski	
Research Open Access 23 Feb 2022 Nature Volume: 602, P: 590-59	4
Quantum steering with vector vortex photon states with the detection loophole closed	
Const Change In Dentisida Hardy Conff I Dentis	
Sergei Slussarenko, Dominick J. Joch Geoff J. Pryde Research Open Access 02 Mar 2022 npj Quantum Information Vo	lume: 8, P: 1-6
Mohammadjavad Abdollahzadeh, Marzieh Khosravi Farzad Tat Shahdost Research Open Access 23 Mar 2022 Scientific Reports Volume: 12	, P: 1-16
Anemia prevalence in women of reproductive age in low- and middle-income countries between 2000 and 2018	
Geospatial estimates of the prevalence of anemia in women of reproductive age across 82 low-income and middle-income countries reveals considerable heterogeneity and inequality at national and subnational levels, with few countries on track to meet the WHO Global Nutrition Targets by 2030.	
Damaris Kinyoki, Aaron E. Osgood-Zimmerman Simon I. Hay Research Open Access 12 Oct 2021 Nature Medicine Volume: 27, 1	P: 1761-1782
Acoustic non-Hermitian skin effect from twisted winding topology	

Non-Hermitian skin effect fundamentally challenges the conventional topological description of a system. Here the authors demonstrate a bipolar non-Hermitian skin effect, where bulk eigenstates localize towards two directions, in a one-dimensional non-reciprocal acoustic crystal with twisted topology.		
Li Zhang, Yihao Yang Baile Zhang Research Open Access 02 Nov 2021 Nature Communications Volume: 12, P: 1-7		
Cryo-EM snapshots of a native lysate provide structural insights into a metabolon-embedded transacetylase reaction		
How is acetyl-CoA produced in the context of the endogenous, eukaryotic pyruvate dehydrogenase complex metabolon? Here the authors dissect the embedded transacetylase reaction through biochemical, cryo-EM, HADDOCKing and molecular dynamics methods.		
Christian Tüting, Fotis L. Kyrilis Panagiotis L. Kastritis Research Open Access 26 Nov 2021 Nature Communications Volume: 12, P: 1-13		
The driver landscape of sporadic chordoma		
Chordoma is a rare often incurable malignant bone tumour. Here, the authors investigate driver mutations of sporadic chordoma in 104 cases, revealing duplications in notochordal transcription factor brachyury (<i>T</i>), PI3K signalling mutations, and mutations in LYST, a potential novel cancer gene in chordoma.		
Patrick S. Tarpey, Sam Behjati Peter J. Campbell		
Research Open Access 12 Oct 2017 Nature Communications Volume: 8, P: 1-6		
Soil-based nano-graphene oxide and foliar selenium and nano-Fe influence physiological responses of 'Sultana' grape under salinity		
Mohammad Ali Aazami, Lamia Vojodi Mehrabani Farzad Rasouli		
Research Open Access 10 Mar 2022 Scientific Reports Volume: 12, P: 1-13		

Rise of the second order

Giulia Pacchioni
Research Highlights 23 Aug 2019 Nature Reviews Materials Volume: 4, P: 572
Tracheal aspirate RNA sequencing identifies
distinct immunological features of COVID-19
ARDS
Here, the authors perform transcriptional profiling on tracheal aspirates
of adults requiring mechanical ventilation for SARS-CoV2-induced acute
respiratory distress syndrome (ARDS) and identify a dysregulated host
response predicted to predicted to be potentially modulated by dexamethasone.
dexametridone.
Aartik Sarma, Stephanie A. Christenson Charles R. Langelier
Research Open Access 26 Aug 2021 Nature Communications Volume: 12, P: 1-10
Mapping the human genetic architecture of
COVID-19
A global network of researchers was formed to investigate the role of
human genetics in SARS-CoV-2 infection and COVID-19 severity; this
paper reports 13 genome-wide significant loci and potentially actionable
mechanisms in response to infection.
Mari E. K. Niemi, Juha Karjalainen Chloe Donohue
Research Open Access 08 Jul 2021 Nature Volume: 600, P: 472-477
Mapping local patterns of childhood overweight
and wasting in low- and middle-income countries
between 2000 and 2017
Fine-scale geospatial mapping of overweight and wasting (two
components of the double burden of malnutrition) in 105 LMICs shows
that overweight has increased from 5.2% in 2000 to 6.0% in children
under 5 in 2017. Although overall wasting decreased over the same
period, most countries are not on track to meet the World Health
Organization's Global Nutrition Target of <5% in over half of LMICs by 2025.
Damaris K. Kinyoki, Jennifer M. Ross Simon I. Hay
Research Open Access 20 Apr 2020 Nature Medicine Volume: 26, P: 750-759

The increasing global environmental consequences of a weakening US-China crop trade relationship
The potential environmental consequences driven by US–China crop trade tension are considerable and could spill over to other countries, especially Brazil and other South American countries, through international trade. Such consequences are predominantly driven by China's proposed retaliation on US soybeans.
Guolin Yao, Xin Zhang Farzad Taheripour
Research 12 Aug 2021 Nature Food Volume: 2, P: 578-586
En route to dynamic life processes by SNARE- mediated fusion of polymer and hybrid membranes
A variety of artificial cells springs from the functionalization of liposomes with proteins but these models suffer from low durability without repair and replenishment mechanisms. Here, the authors show that synthetic amphiphile membranes undergo SNARE-mediated fusion, and determine
bending rigidity and pore edge tension as key parameters for fusion.
Lado Otrin, Agata Witkowska Tanja Vidaković-Koch Research Open Access 17 Aug 2021 Nature Communications Volume: 12, P: 1-12
Contribution of obesity and cardiometabolic risk factors in developing cardiovascular disease: a population-based cohort study

Mahmood Bakhtiyari, Elham Kazemian ... Freidoun Azizi

Research Open Access 28 Jan 2022 **Scientific Reports** Volume: 12, P: 1-10

Mapping routine measles vaccination in low- and middle-income countries

Although progress in the coverage of routine measles vaccination in children in low- and middle-income countries was made during 2000–2019, many countries remain far from the goal of 80% coverage in all districts by 2019.

Alyssa N. Sbarra, Sam Rolfe ... Jonathan F. Mosser

Research Open Access 16 Dec 2020 **Nature** Volume: 589, P: 415-419

immunity to an expressed antigen

Charles Flexner, Brian R. Murphy ... Bernard Moss

Research 15 Sept 1988 **Nature** Volume: 335, P: 259-262

Antibody to Thy-1 antigen injected into rat hypothalamus selectively inhibits carbamyl choline induced drinking

Curtis A. Williams, James Barna & Nicole Schupf

Research 03 Jan 1980 **Nature** Volume: 283, P: 82-84

Prostaglandin synthesis in different phases of phagocytosis in lung macrophages

Wei Hsueh, F. Gonzalez-Crussi & Eric Hanneman

Research 03 Jan 1980 **Nature** Volume: 283, P: 80-82

Increased atrial arrhythmia susceptibility induced by intense endurance exercise in mice requires TNF α

Endurance exercise is associated with an increased risk of atrial fibrillation. Here, the authors show the adipokine TNF α is a crucial mediator of exercise-induced atrial fibrillation and irreversible atrial remodelling characterized by fibrosis and inflammation.

Roozbeh Aschar-Sobbi, Farzad Izaddoustdar ... Peter H. Backx

Research 19 Jan 2015 Nature Communications Volume: 6, P: 1-14

Interfering trajectories in experimental quantum-enhanced stochastic simulation

Quantum devices should allow simulating stochastic processes using less memory than classical counterparts, but only if quantum coherence is maintained through multiple steps. Here, the authors demonstrate a coherence-preserving three-step stochastic simulation using photons.

Farzad Ghafari, Nora Tischler ... Geoff J. Pryde

Research Open Access 09 Apr 2019 Nature Communications Volume: 10, P: 1-8

Repositioning of the global epicentre of nonoptimal cholesterol

From 1980 to 2018, the levels of total and non-high-density lipoprotein cholesterol increased in low- and middle-income countries, especially in east and southeast Asia, and decreased in high-income western countries, especially those in northwestern Europe, and in central and eastern Europe.

Cristina Taddei, Bin Zhou ... Majid Ezzati

ns.			
Volum	e: 10, P: 1-8		
otein Ily in			

Research Open Access 03 Jun 2020 Nature Volume: 582, P: 73-77	
Non-Hermitian topological whispering gallery	
An acoustic topological gallery insulator constructed from sonic crystals made of thermoplastic rods decorated with carbon nanotube films enables the out-coupling of amplified and focused sound at audible frequencies.	
Bolun Hu, Zhiwang Zhang Johan Christensen	
Research 29 Sept 2021 Nature Volume: 597, P: 655-659	
Programmable polymorphism of a virus-like particle	
Virus-like particles are promising for drug delivery systems and vaccine	
development, but controlling their size and morphology is challenging. Here, amino acid sequences are inserted into MS2 bacteriophage virus-	
like particles, with their size and shape being controlled by varying the insert used.	
Artur P. Biela, Antonina Naskalska Jonathan G. Heddle	
Research Open Access 07 Feb 2022 Communications Materials Vol	ume: 3, P: 1-9

Transfer of a functional human immune system to mice with severe combined immunodeficiency

Donald E. Mosier, Richard J. Gulizia ... Darcy B. Wilson

Research 15 Sept 1988 **Nature** Volume: 335, P: 256-259

Association between the *CYP1A1 Mspl* polymorphism and risk of head and neck cancer: a meta-analysis

Hady Mohammadi, Mehrnoush Momeni Roochi ... Masoud Sadeghi

Research Open Access 27 Jan 2022 Scientific Reports Volume: 12, P: 1-18

Genetic mechanisms of critical illness in COVID-19

A genome-wide association study of critically ill patients with COVID-19 identifies genetic signals that relate to important host antiviral defence

mechanisms and mediators of inflammatory organ damage that may be targeted by repurposing drug treatments.	
Frola Paira Castinaira Sara Clabicay - I Kannath Paillia	
Erola Pairo-Castineira, Sara Clohisey J. Kenneth Baillie Research 11 Dec 2020 Nature Volume: 591, P: 92-98	
Vaccination of mice with hybrid protein containing Exotoxin S and PcrV with adjuvants alum and MPL protects <i>Pseudomonas aeruginosa</i> infections	
Mohammad Reza Asadi Karam, Farzad Badmasti Mehri Habibi Research Open Access 25 Jan 2022 Scientific Reports Volume: 12, P:	1-9
An age-structured model of hepatitis B viral infection highlights the potential of different therapeutic strategies	
Farzad Fatehi, Richard J. Bingham Reidun Twarock Research Open Access 24 Jan 2022 Scientific Reports Volume: 12, P:	1-12
Therapeutic interfering particles exploiting viral replication and assembly mechanisms show promising performance: a modelling study	
Farzad Fatehi, Richard J. Bingham Reidun Twarock Research Open Access 13 Dec 2021 Scientific Reports Volume: 11, P	: 1-10

Thank you to all of our reviewers in 2021

5514 individual reviewers contributed to the peer review process at *Communications Biology* in 2021. We acknowledge and thank each of them here.

Editorial Open Access 28 Feb 2022 Communications Biology Volume: 5, P: 1-13
Synthesis of tetrazolo[1,5-a]pyrimidine-6-carbonitriles using HMTA-BAIL@MIL-101(Cr) as a superior heterogeneous catalyst
Mohammad Hossein Abdollahi-Basir, Boshra Mirhosseini-Eshkevari Mohammad Ali Ghasemzadeh
Research Open Access 03 Mar 2021 Scientific Reports Volume: 11, P: 1-12
A strong no-go theorem on the Wigner's friend paradox For a scenario of two separated but entangled observers, inequalities are derived from three fundamental assumptions. An experiment shows that these inequalities can be violated if quantum evolution is controllable on the scale of an observer. Kok-Wei Bong, Aníbal Utreras-Alarcón Howard M. Wiseman Research 17 Aug 2020 Nature Physics Volume: 16, P: 1199-1205
Application of Latent Class Analysis to Identify Metabolic Syndrome Components Patterns in adults: Tehran Lipid and Glucose study Noushin Sadat Ahanchi, Farzad Hadaegh Davood Khalili Research Open Access 07 Feb 2019 Scientific Reports Volume: 9, P: 1-8 A universal methodology for reliable predicting
the non-steroidal anti-inflammatory drug solubility in supercritical carbon dioxide

Tahereh Rezaei, Vesal Nazarpour ... Farzad Tat Shahdost

Research Open Access 20 Jan 2022 **Scientific Reports** Volume: 12, P: 1-12

<u>Assay of honey freshness by a novel optical technique</u>

Alireza Mashhadi, Ali Bavali & Farzad Mokhtari Research Open Access 18 Jan 2022 Scientific Reports Volume: 12, P: 1-14 Effects of constructal theory on thermal management of a power electronic system Amin Asadi & Farzad Pourfattah Research Open Access 08 Dec 2020 Scientific Reports Volume: 10, P: 1-14 Positive and negative chemotaxis of enzyme-coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute–phospholipid interactions.
Effects of constructal theory on thermal management of a power electronic system Amin Asadi & Farzad Pourfattah Research Open Access 08 Dec 2020 Scientific Reports Volume: 10, P: 1-14 Positive and negative chemotaxis of enzyme-coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute—phospholipid interactions.
Research Open Access 18 Jan 2022 Scientific Reports Volume: 12, P: 1-14 Effects of constructal theory on thermal management of a power electronic system Amin Asadi & Farzad Pourfattah Research Open Access 08 Dec 2020 Scientific Reports Volume: 10, P: 1-14 Positive and negative chemotaxis of enzyme-coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute—phospholipid interactions.
Research Open Access 18 Jan 2022 Scientific Reports Volume: 12, P: 1-14 Effects of constructal theory on thermal management of a power electronic system Amin Asadi & Farzad Pourfattah Research Open Access 08 Dec 2020 Scientific Reports Volume: 10, P: 1-14 Positive and negative chemotaxis of enzyme-coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute—phospholipid interactions.
Research Open Access 18 Jan 2022 Scientific Reports Volume: 12, P: 1-14 Effects of constructal theory on thermal management of a power electronic system Amin Asadi & Farzad Pourfattah Research Open Access 08 Dec 2020 Scientific Reports Volume: 10, P: 1-14 Positive and negative chemotaxis of enzyme-coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute—phospholipid interactions.
Effects of constructal theory on thermal management of a power electronic system Amin Asadi & Farzad Pourfattah Research Open Access 08 Dec 2020 Scientific Reports Volume: 10, P: 1-14 Positive and negative chemotaxis of enzyme-coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute—phospholipid interactions.
Amin Asadi & Farzad Pourfattah Research Open Access 08 Dec 2020 Scientific Reports Volume: 10, P: 1-14 Positive and negative chemotaxis of enzyme-coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute–phospholipid interactions.
Amin Asadi & Farzad Pourfattah Research Open Access 08 Dec 2020 Scientific Reports Volume: 10, P: 1-14 Positive and negative chemotaxis of enzyme-coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute–phospholipid interactions.
Positive and negative chemotaxis of enzyme-coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute—phospholipid interactions.
Positive and negative chemotaxis of enzyme-coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute—phospholipid interactions.
Positive and negative chemotaxis of enzyme-coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute–phospholipid interactions.
Positive and negative chemotaxis of enzyme-coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute–phospholipid interactions.
Positive and negative chemotaxis of enzyme-coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute—phospholipid interactions.
Positive and negative chemotaxis of enzyme-coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute—phospholipid interactions.
coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute—phospholipid interactions.
coated liposome motors Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute–phospholipid interactions.
Enzyme-coated liposomal motors show either positive or negative chemotaxis depending on the interplay between enzyme catalysis and solute–phospholipid interactions.
solute–phospholipid interactions.
Ambika Somasundar, Subhadip Ghosh Ayusman Sen
Research 18 Nov 2019 Nature Nanotechnology Volume: 14, P: 1129-1134
How soap bubbles freeze
While the physics of freezing water droplets are known, it is less known
how bubbles freeze. The authors investigate the physics of freezing soap
bubbles and identify two distinct freezing modes, depending on whether the surroundings are warmer or colder than the melting temperature.
S. Farzad Ahmadi, Saurabh Nath Jonathan B. Boreyko
Research Open Access 18 Jun 2019 Nature Communications Volume: 10, P: 1-10

ropological analog signal processing

Analog signal processors could potentially offer faster operation and lower power consumption than digital versions, but are not yet

commonly used for large scale applications due to considerable observational errors. Here, the authors demonstrate the unique relevance of topological insulators for improving reliability in such analog processors.	
Farzad Zangeneh-Nejad & Romain Fleury Research Open Access 03 May 2019 Nature Communications Volume: 10, P: 3	1-10
People	
Comments & Opinion 07 Jun 2011 Nature Biotechnology Volume: 29, P: 550 Retinal Oxygen Delivery, Metabolism, and Extraction Fraction during Long-Term Bilateral Common Carotid Artery Occlusion in Rats	
Sophie Leahy, Shayan Farzad Mahnaz Shahidi Research Open Access 25 Jun 2020 Scientific Reports Volume: 10, P: 1-8	
Electric-field control of spin accumulation direction for spin-orbit torques	
Voltage control of spin-orbit torques (SOTs) provides additional degrees of freedom for spinmemory and -logic applications. Here the authors demonstrate a large voltage control of direction as well as amount of current-induced spin accumulation at the heavy metal/ferromagnet interface and effectively tune the SOTs in a Pt/Co/GdOx heterostructure.	
Rahul Mishra, Farzad Mahfouzi Hyunsoo Yang Research Open Access 16 Jan 2019 Nature Communications Volume: 10, P: 1-	-8

Topological optical differentiator

Spatial differentiation is a form of optical computation which has applications in image processing. Here, the authors exploit nontrivial