

Academic Career in the UK?

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UNIVERSITY OF
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Who I am (no.1)?

- 2022/12 UKRI Future Leaders Fellow
- 2019/12 Lecturer (Asst Prof), University of Birmingham
- 2016/10 KC Wong Fellow & Postdoc, University of Oxford
- 2015/07 PhD, Mechanical Engineering, Tsinghua University
- 2013/08 Visiting Researcher, University of California, San Diego
- 2010/07 Bachelor, Automotive Engineering & Economics, Tsinghua University

Q: What you want to say about this CV?

Who I am (no.2)?

SHOCK ABSORBERS & IMPACT PROTECTION IN GOLF OR SPORT

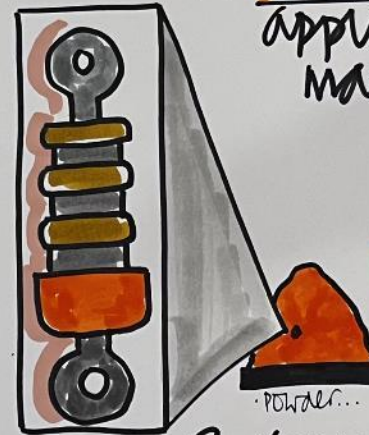
MATERIALS used have LIMITATIONS - can performance be CONTROLLED?

A NEW MATERIAL
TO ABSORB SHOCK

A NANO sponge

1 gram can cover an
entire football pitch

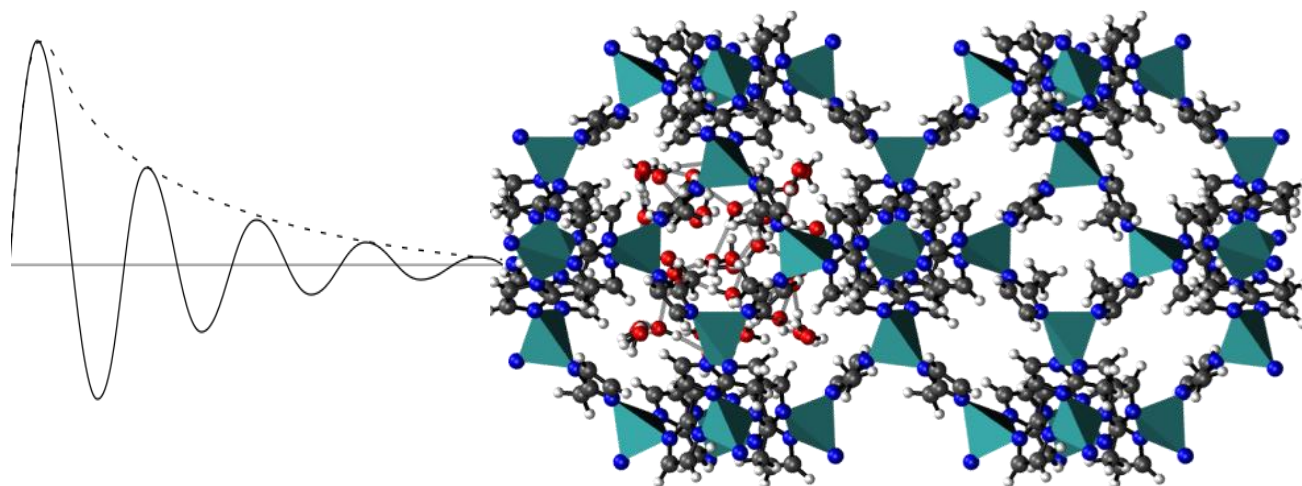
using WATER to
explore how water flows
in this material



A RANGE of different
applications for this
material e.g. golf & helmets

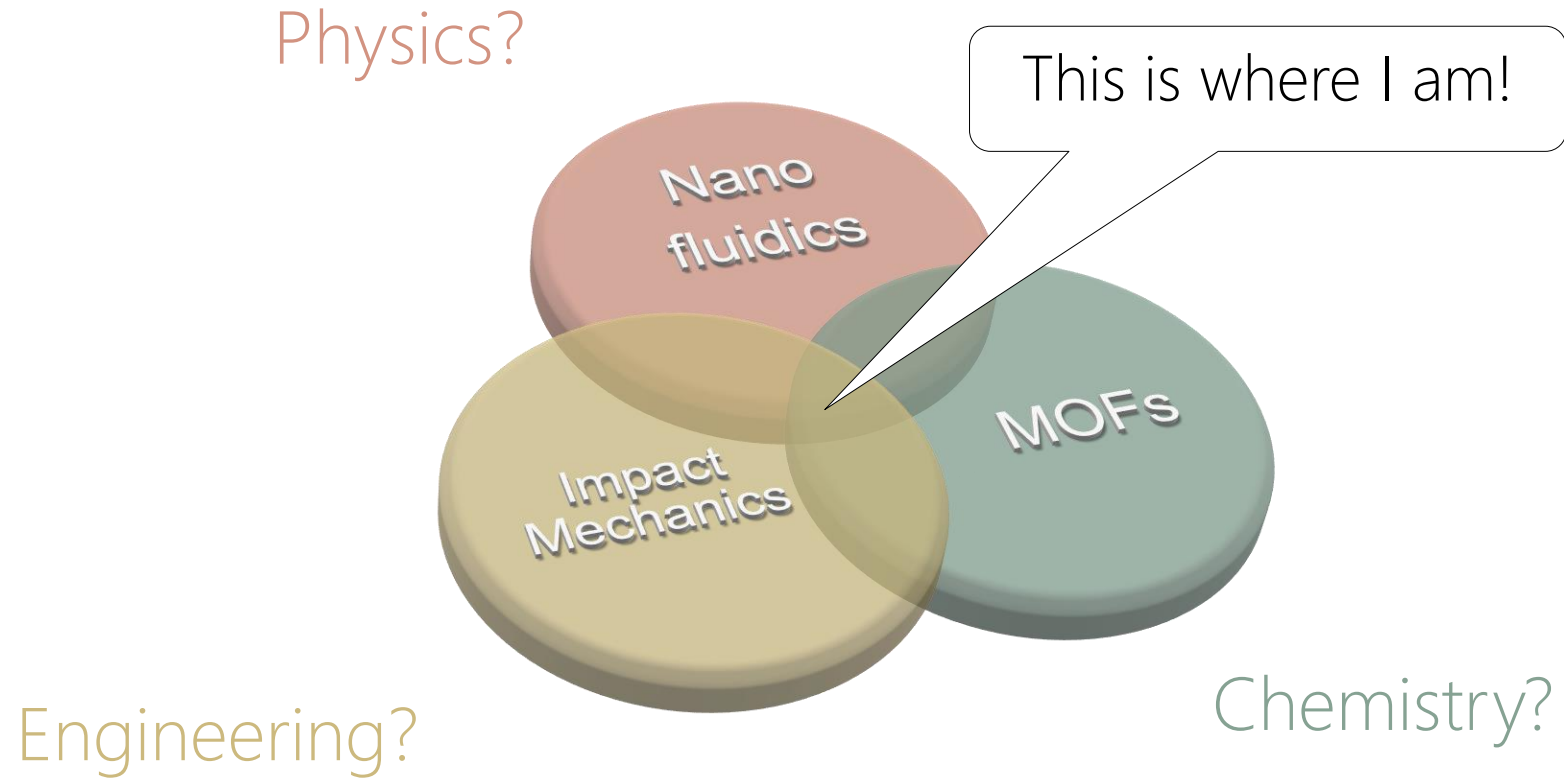
Re-usable ✓
light ✓
& very efficient ✓

NANO SPONGE FOR SHOCK ABSORPTION *Yueting sun*

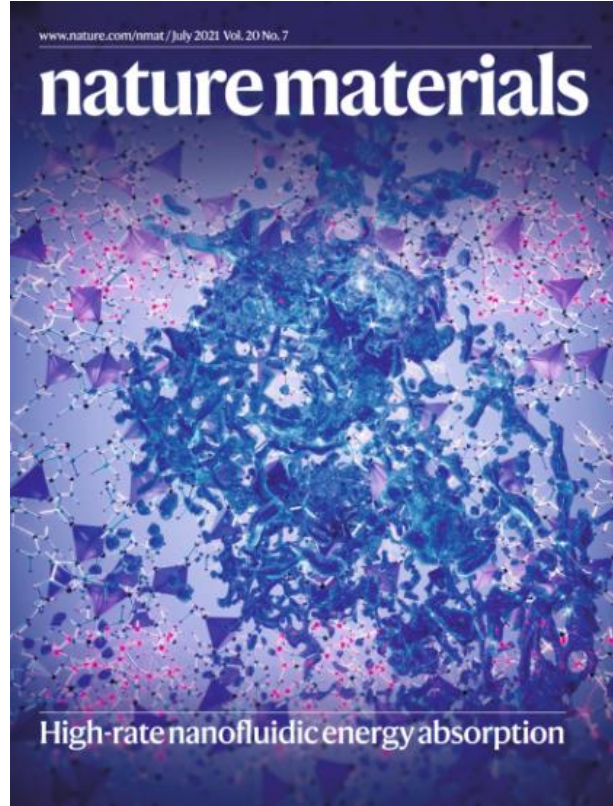


What? Why? So what?

Who I am (no.3)?



Is this a good idea?



CHEMISTRY WORLD
NEWS RESEARCH OPINION FEATURES CULTURE CAREERS PODCASTS WEBINARS COLLABORATION

Hydrogen bonding explains MOF's shock-absorption abilities

DEFENSE TECHCONNECT
THE INNOVATION SOURCE FOR NATIONAL SECURITY

ABOUT VERTICALS THEATERS EVENTS AWARDS

NEWS TICKER [December 31, 2021] New UAS Will Support Special Operations Troops

HOME GROUND New Process Could Create Higher Performance Shock Absorption

New Process Could Create Higher Performance Shock Absorption

sciTechDaily

BIOLOGY CHEMISTRY EARTH HEALTH PHYSICS SCIENCE SPACE TECHNOLOGY

TECHNOLOGY NEWS

New Material Could Better Protect Soldiers, Athletes and Motorists From Shock, Impact and Explosions

road.cc

News Reviews Buyers Guides Features Forum Recommends Podcast

Could a new wonder material allow you to reuse your cycling helmet after a crash?

I-M3 Institute of Materials, Minerals & Mining Membership News Events Research
AZO MATERIALS About News Articles Directory

You're here: Homepage → Resources → Website resources list → Shock and impact protection advanced with ZIFs

News 16 June 2021 by Shardell Joseph

Shock and impact protection advanced with ZIFs

physicsworld

NANOMATERIALS | RESEARCH UPDATE

Materials absorb huge impacts by forcing water through nanopores

thSpace

New material could better protect soldiers, athletes and motorists

THE SCIENCE TIMES nano

HOME > NANOTECHNOLOGY

Nanocages Could Live to Safer Lives for Soldiers, Athletes, Motorists – Study

NWS

PHYS ORG

SCIENMAG

Home / Nanotechnology / Nanomaterials

APRIL 22, 2021

New material could better protect soldiers, athletes and motorists

by University of Birmingham

New material could better protect soldiers, athletes and motorists

CAPE Business News

Where industry speaks to industry

INDUSTRY NEWS ONLINE EDITORIALS WEBINARS EXPOS & EVENTS ULTIMATE BLOG

Home > Industry News > Personal Protection Equipment & Clothing > New material could better protect soldiers, athletes and motorists

New material could better protect soldiers, athletes and motorists

New shock absorber based on small pore material and water is reusable thousands of times

Who I am (summary)?

- WHO are you as an individual?
What are the invisible information?
- WHAT do you do as a researcher?
What? Why? So what?
- WHERE does your research sit in the context of research community and disciplines?
HOW does your research/expertise benefit the field, neighbouring fields, or the broader context?
- WHY you (as an early career research in response to job opportunities)?
Are you unique (locally, nationally, globally)?
Are you independent or showing leadership (e.g., supervision, fund, mentoring, etc.)?

UK Academia?

- EVALUATION: The breadth of experience (Résumé for Research and Innovation, R4RI)
 - Contributions to the generation of new ideas, tools, methodologies or knowledge
 - The development of others and maintenance of effective working relationships
 - Contributions to the wider research and innovation community
 - Contributions to broader research or innovation-users and audiences, and towards wider societal benefit
- EDI: Equality, Diversity and Inclusion
- EXPERIENCE: (Interdisciplinary) Collaboration & Independence
- OPPORTUNITY: Porosity across Research (academia) and Innovation (industry)

Where to start?

- INFORMATION: jobs.ac.uk
- READ: Job adverts
 - Open area: attract best people and invest in their research direction (right place?)
 - Specified research area/group: grow existing research activity (you recognise them?)
- TRY: Never too early to try!
- PREPARE: By failing to prepare, you are preparing to fail, online resources free!
- PRACTICE: Application, seminar (lecture), interview
- DECISION: Do you REALLY know that place (e.g., people, research, facility, culture)

Any Suggestion?

- THINK: Is academia the right choice to you?

- LEARN: Be open to talk and share!

Everyone has something to learn from: most people are ready to help you!

Make use of professional development event & resources!

Be ready to learn for your entire life: that is academia!

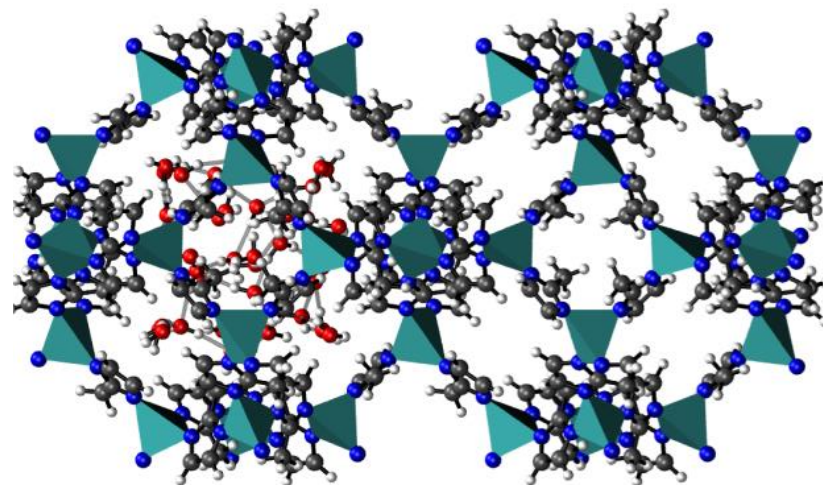
Student: learn from your supervisor?

Postdoc: local community and collaborator?

PI: learn from anyone you want (how about your students and postdoc)?

- CONFIDENCE: You are independent and a leader if you believe you are!
- KEEP IT FUN!

THANKS FOR YOUR ATTENTION!



PhD & Postdoc positions available

Please email: y.sun.9@bham.ac.uk



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