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The new carbon-based  
material could be a basis  
for lighter, tougher  
alternatives to Kevlar

*Page 4/22*

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and steel. A new study by engineers at MIT, Caltech, and ETH Zürich shows that [nanoarchitected] materials [ ...

Tougher Than Kevlar and Steel: Ultralight Material Withstands Supersonic Microparticle Impacts  
MAT\_SCI 201  
introduces the core

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topics and basic  
concepts of Materials  
Science and  
Engineering. We cover  
introductory materials  
processing, structure,  
properties, and  
performance with  
particular ...

MAT\_SCI 201:

Principles of the

Properties of Materials

A hands-on introduction

*Page 6/22*

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to the use of laboratory techniques for the processing and characterization in materials science.

Structure-property relations ... An introduction to the properties of ...

Materials Science and Engineering

The University of

Delaware recognized 10

*Page 7/22*

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doctoral students from the graduating classes of 2020 and 2021 with dissertation prizes for outstanding work in their field of study. The awards were announced ...

Dissertation scholars shine

At the outset of the global pandemic in March 2020, Svitlana



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Volkova and her  
colleagues turned to the  
social media platform  
Twitter to understand ...

Unknown

PNNL AI Expert  
Harnesses Open-Source  
Data to Understand

Human Behavior

Thinner than a human  
hair, new material can  
absorb impacts from  
microparticles traveling  
at supersonic speeds

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Principles

Engineers at Caltech,  
MIT, and ETH Zürich  
have developed a nano-  
architected material  
made ...

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Nano-Architected

Material Resists Impact

Better Than Kevlar

Jian Shi Research Group

engineers material into

promising

optoelectronic.

Optoelectronic materials

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Materials  
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that are capable of  
converting the energy of  
light into electricity, and  
electricity into light,  
have ...

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Efficient Light-

F. Smith  
Electricity Conversion:

Changing a 2D

Material's Symmetry

Can Unlock Its Promise

Marcus du Sautoy

shares his thoughts on

what it will take for AI

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to be truly creative. And what that will mean for us humans.

Thinkers And

Innovators: An Interview With Marcus Du Sautoy

Engineers at MIT,

Caltech, and ETH

Zürich find

"nanoarchitected"

materials designed from

precisely patterned

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Principles

nanoscale structures  
may be a promising  
route to lightweight  
armor, protective  
coatings, ...

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Ultralight material  
withstands supersonic  
microparticle impacts  
Lower levels of energy  
loss and more accurate  
design could result in  
far more efficient  
technology, scientists

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Principles

Materials

Science

Breakthrough electronic  
engineering technique

□is step towards carbon  
neutral society□

In our core

undergraduate degree,

you'll discover the

underlying principles of

materials science, and

how these are applied

across materials

engineering situations.

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You can keep your  
course general or ...

Undergraduate courses

The researchers created  
an ultralight material  
made from nanometre-  
scale carbon struts to  
give the material  
toughness and  
mechanical robustness.

Then they shot it with  
microparticles at  
supersonic ...

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## Principles

### Materials

□ Nanoarchitected □  
materials could be key  
to ultralight armour

3 Applied Science and  
Technology Graduate  
Group, University of  
California, Berkeley,  
Berkeley, CA 94720,  
USA. 4 Department of  
Materials Science and  
Engineering ... This  
study establishes design

...



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## Principles

### Materials

Decoupling electron and phonon transport in single-nanowire hybrid materials for high-performance thermoelectrics

About five years ago, Areg Danagoulian, associate professor in the MIT Department of Nuclear Science and Engineering (NSE ... a neutron beam to identify

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unknown materials.

Science

Portable technology  
offers boost for nuclear  
security, arms control

Riccardo Comin, Netta  
Englehardt, Philip

Harris, and Mingda Li  
from MIT's departments  
of Physics and of

Nuclear Science and  
Engineering were

selected for the 2021

Department of Energy

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Principles

Early Career...

Science

Four MIT faculty  
members receive 2021

US Department of

Energy early career  
awards

Biomedical engineers  
use technology to solve  
medical problems, from  
developing artificial  
limbs to designing  
advanced medical  
equipment or new

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Principles

pharmaceuticals.

Chemical engineering

Chemical engineers ...

Engineering

Engineering degrees

The bachelor of science  
in materials science and  
engineering is broad-

based, encompassing a  
wide range of materials,  
and enables students to  
understand the scientific  
principles that govern  
the ...

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Materials

Materials Science and  
Engineering (BS)

In research published  
today in Nature

Nanotechnology, a team  
of materials scientists  
and engineers, led by  
Jian Shi, an associate  
professor of materials  
science and engineering  
at Rensselaer ...

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Engineering

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