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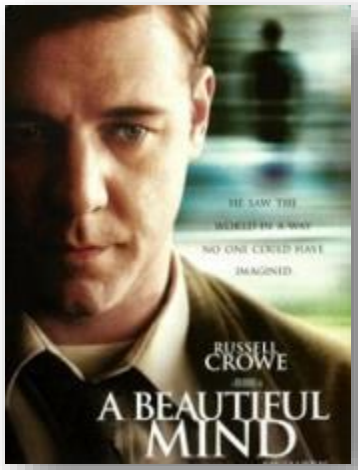

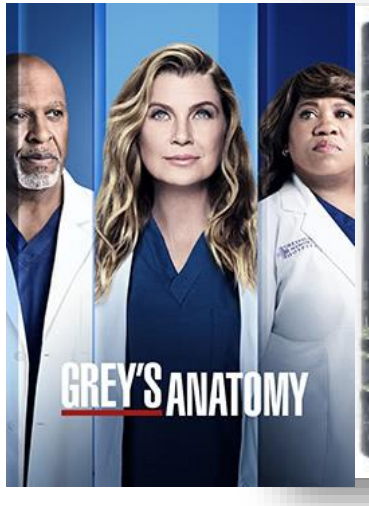

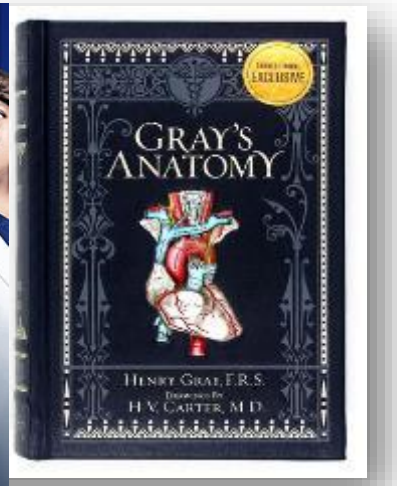

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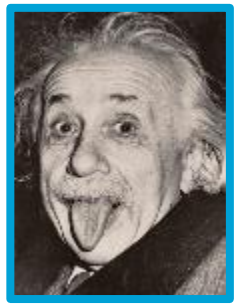

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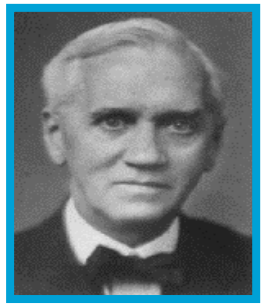

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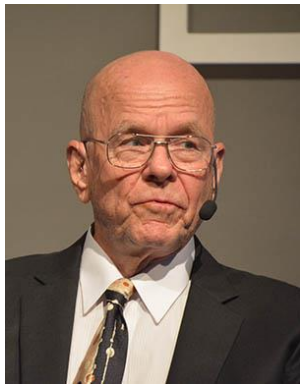


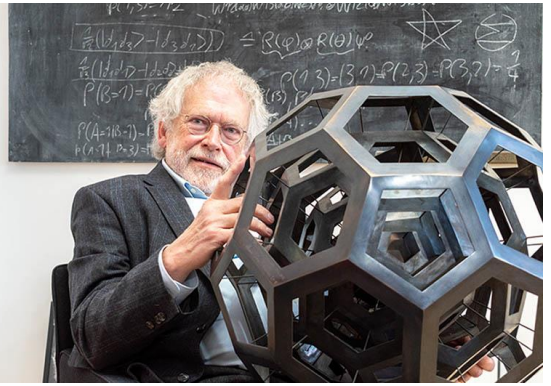

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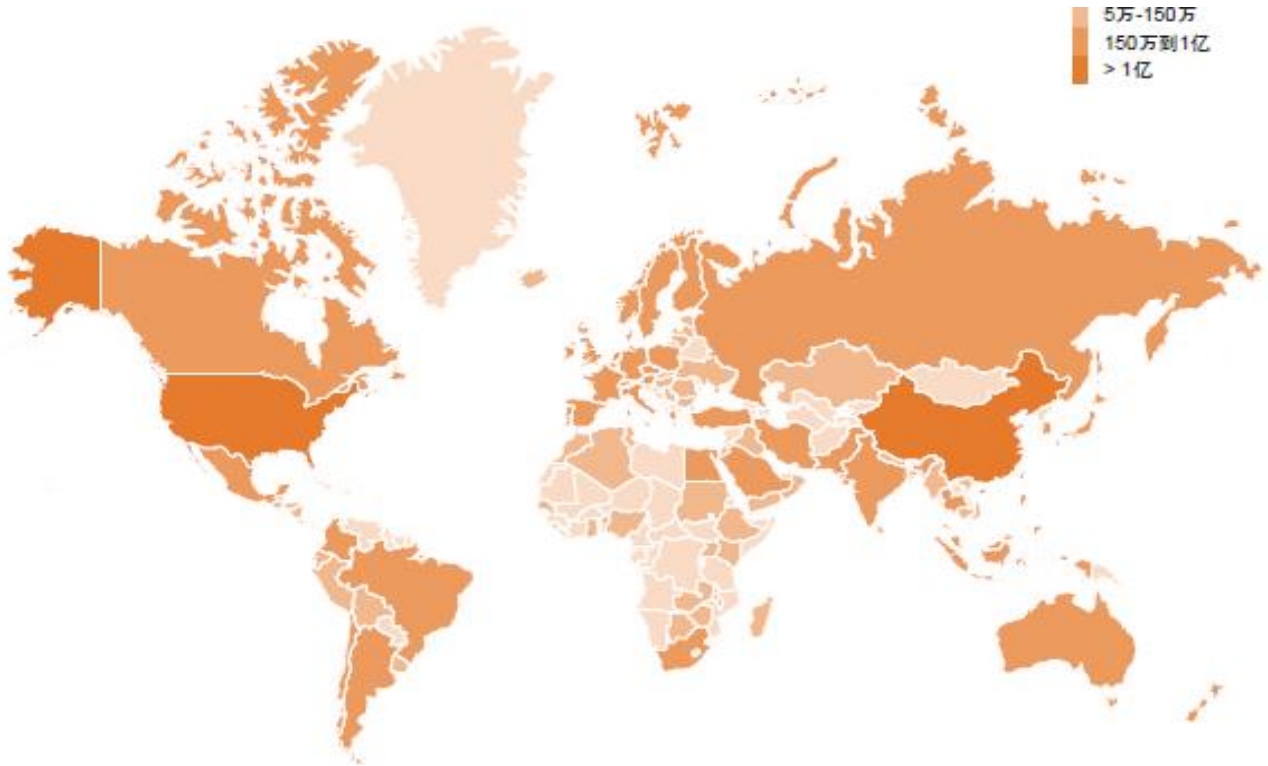

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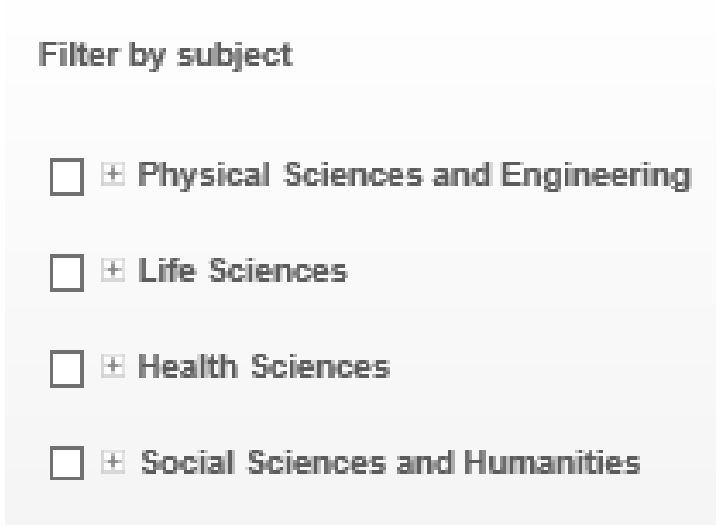

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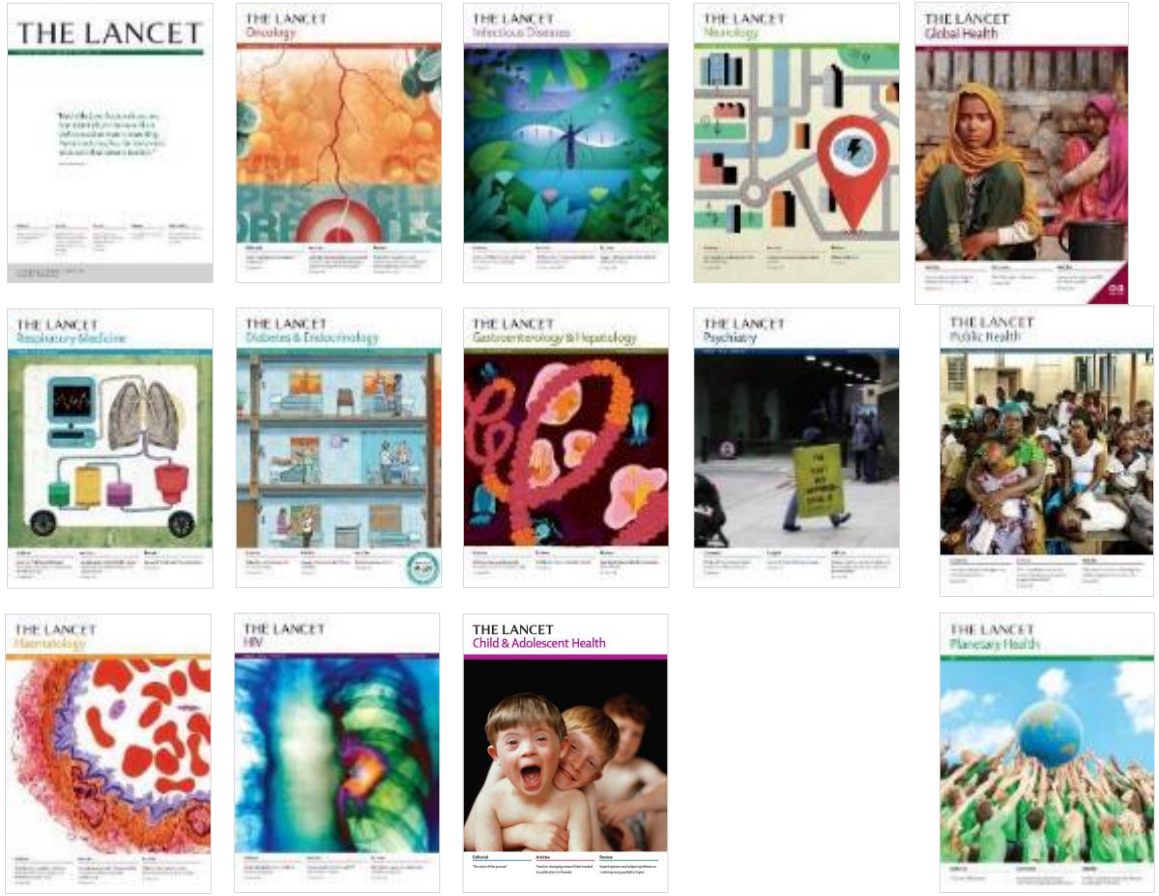

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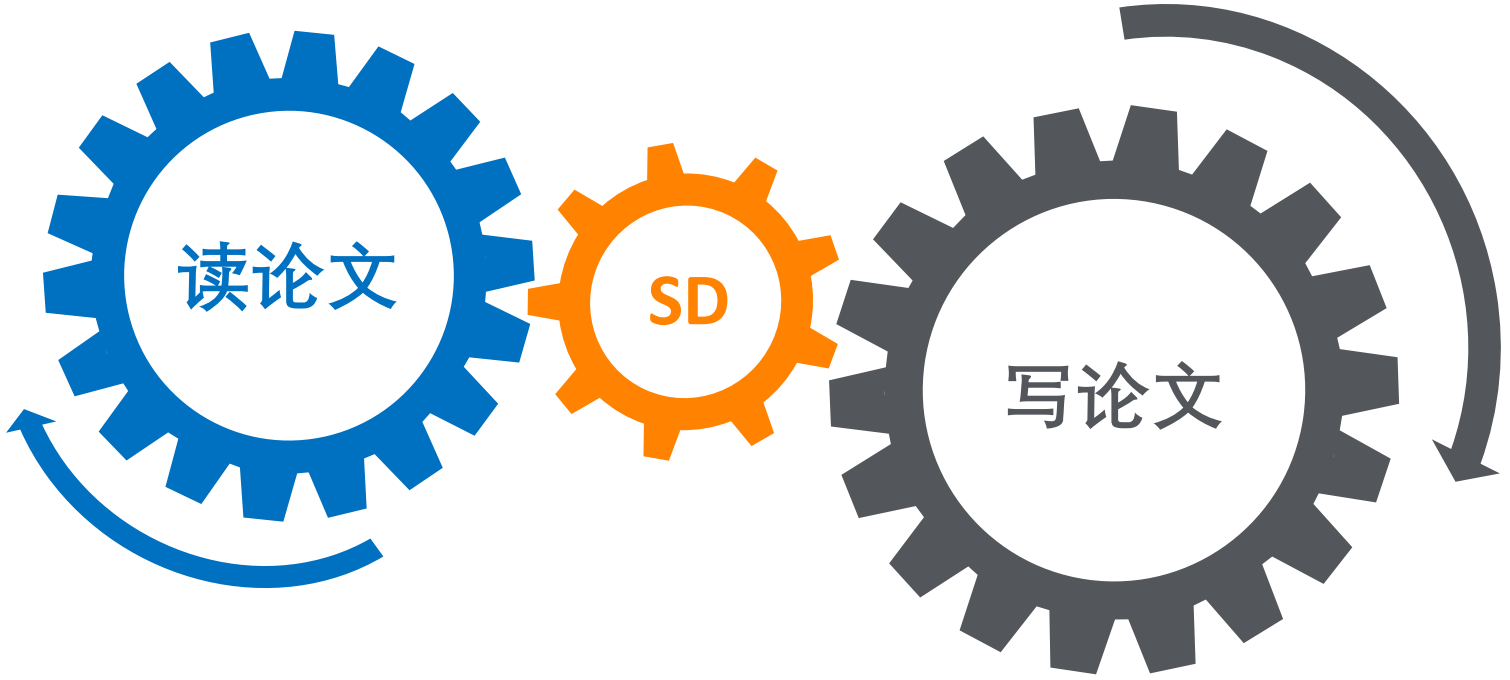

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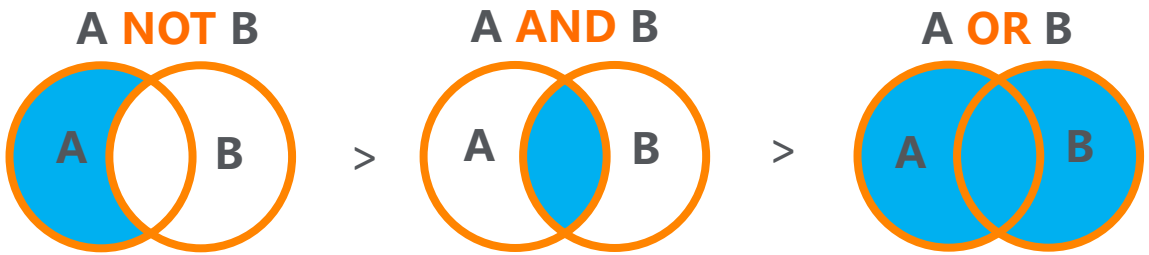

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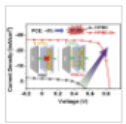
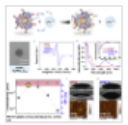
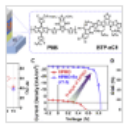
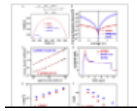
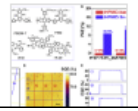

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CellPress

Volume 5, Issue 3, 17 March 2021, Pages 646-658

Article

n-doped inorganic molecular clusters as a new type of hole transport material for efficient organic solar cells

Qian Kang [1], Zhong Zheng [1], Yunfei Zu [1], Qing Liao [1], Pengqing Bi [1], Shaoqing Zhang [2], Yi Yang [1], Bowei Xu [1] ✉, Jianhui Hou [1, 3] ✉

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Highlights

- A method for developing HTL material with high conductivity and suitable energy level
- The HTL possesses low cost, easy preparation, and good compatibility

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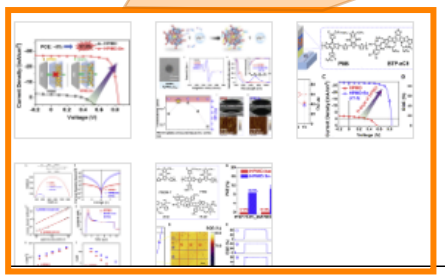

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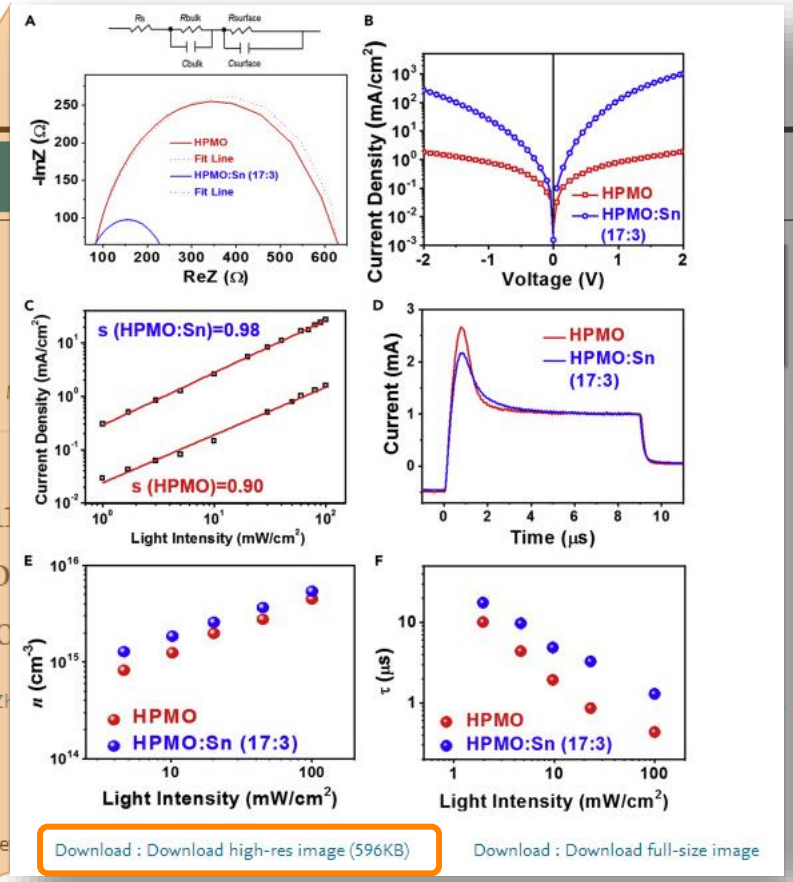

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Highlights

- A method for developing HTL material with high conductivity and suitable energy level
- The HTL possesses low cost, easy preparation, and good compatibility

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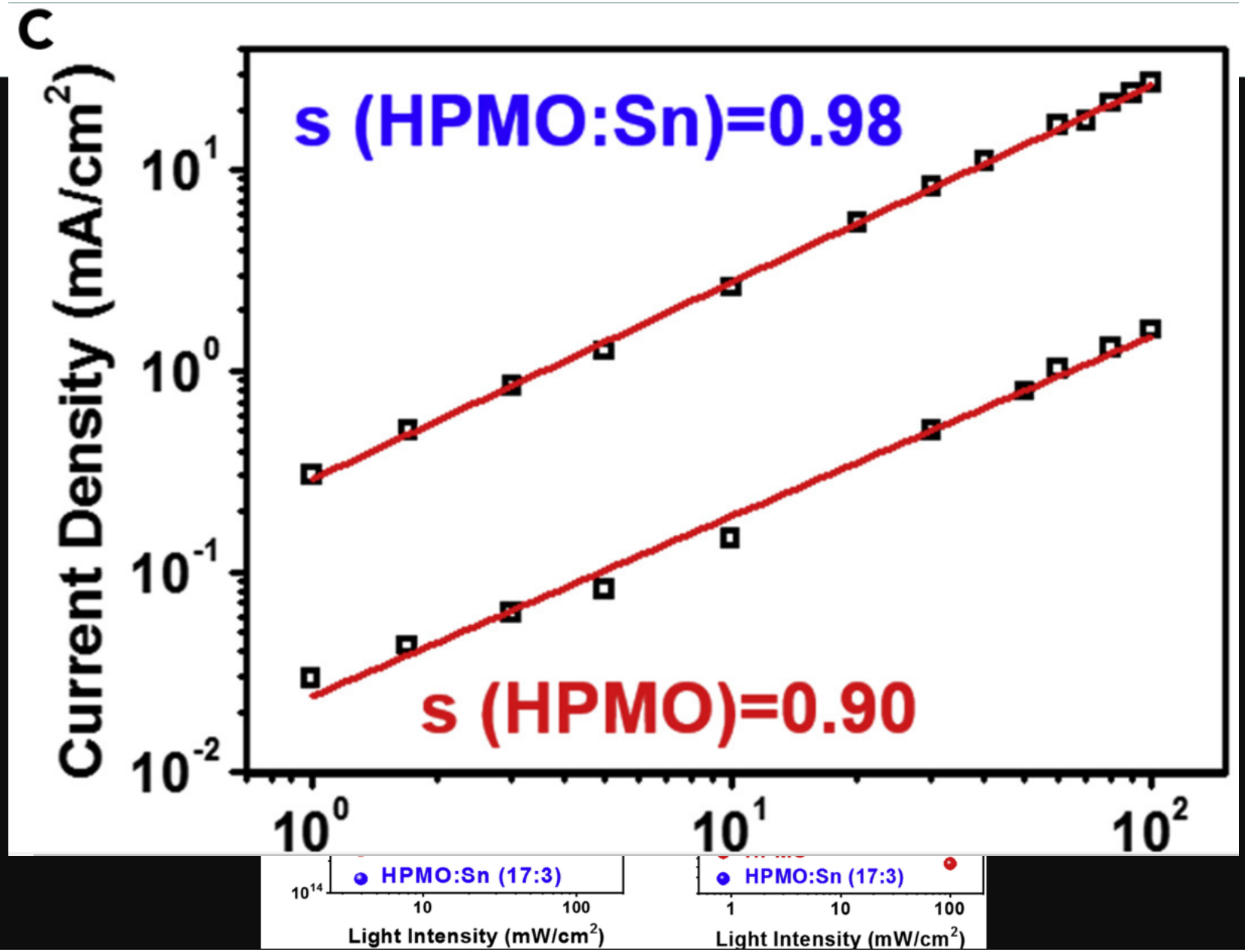
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followed by efficient complexation between cyclodextrin and adamai
to form amphiphilic supramolecular graft copolymers via a two-feed
one-pot. Subsequently, amphiphilic supramolecular block and alter
copolymers were constructed using a similar technique via the copo
with cyclooctene in one-pot. Importantly, the degree of polymerizati
molecular weight distribution of these supramolecular polymers we
controlled, and further they self-assembled into supramolecular nan
with diverse morphologies in aqueous solution. It is expected that th
provide a new direction for designing and constructing noncovalent
supramolecular metathesis polymers.

Graphical abstract

Three types of noncovalently connected amphiphilic supramolecula
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host–guest interaction via a two-feed procedure in one-pot; The poly
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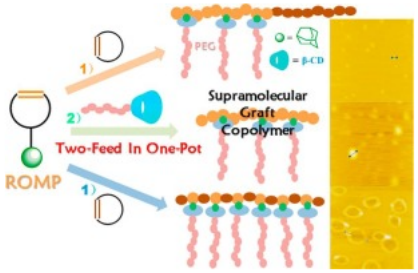

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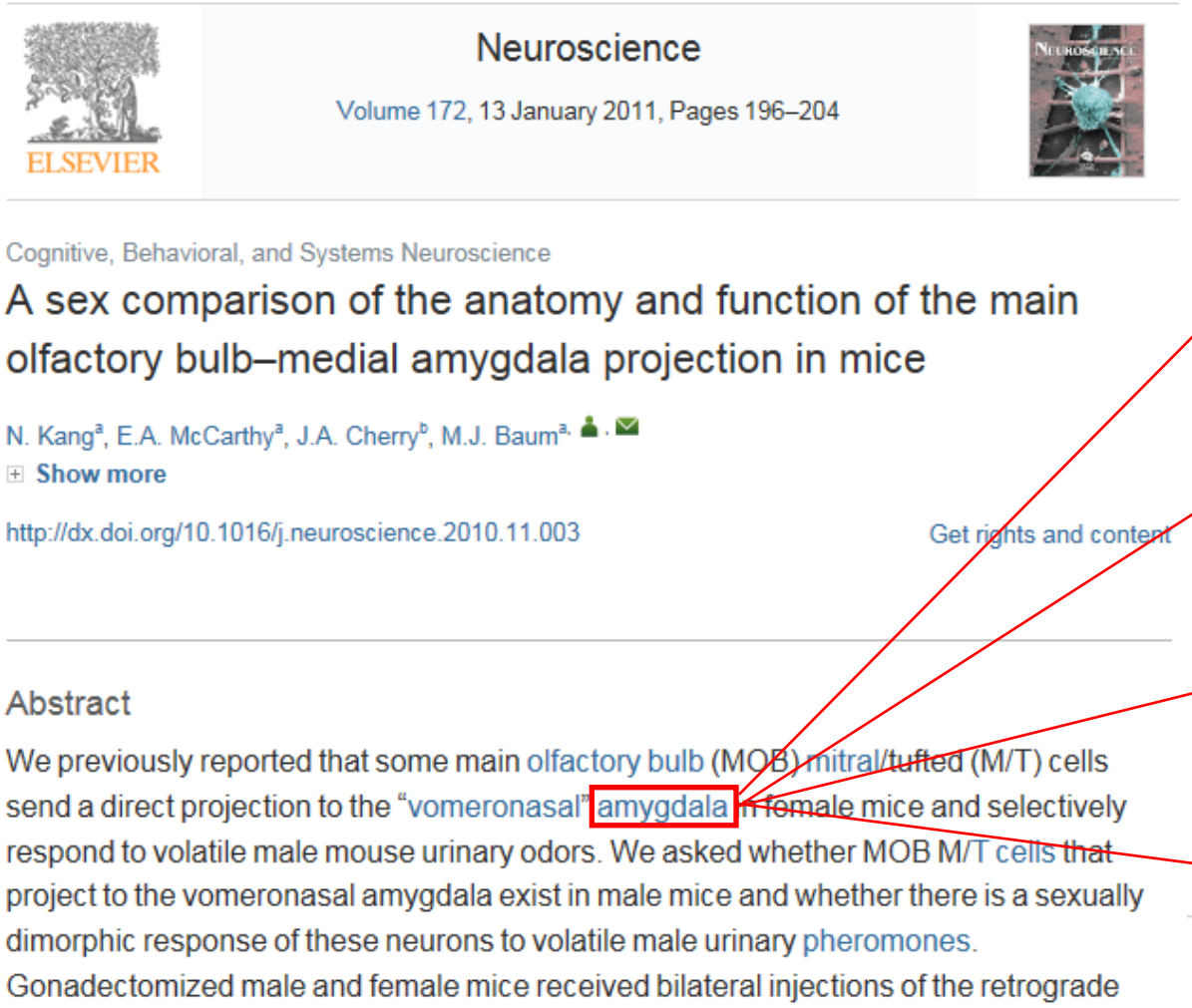

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2.1. Materials

Graphene Oxide (GO) was synthesized from graphite powder according to a modified Hummer's method. Other chemicals and reagents were purchased from Beijing Chemicals Factory. Deionized water was used in all experiments.

2.2. Fabrication of the Ni nanochains and the rGO/Ni nanohybrids

Ni nanochains were prepared according to our previous work [28]. In brief, 0.119 g of $NiCl_2 \cdot 6H_2O$ and 0.333 g of polyvinyl pyrrolidone were dissolved in 100 ml of ethylene glycol (EG) solvent with mechanical stirring for 2 h to obtain a transparent solution. Next, 0.265 mL of the hydrazine monohydrate liquid (80%) was added to the as prepared solution dropwise. After stirring for 2 h, the homogeneous suspension was transferred to a heating jacket and heated to the boiling point of EG (~197 °C) with refluxing for 3 h, then a dark precipitate was obtained. Subsequently, the precipitate was washed several times with distilled water and absolute ethanol and finally dried at 60 °C for 12 h for further characterization.

The rGO/Ni nanohybrids were synthesized by a facile synthetic route. First, the graphene oxides with different mass were put in deionized water with ultrasonic treatment for 2 h to obtain a homogeneous dispersion. Then this solution was heated to 90 °C in an oil bath under magnetic stirring, after that, a certain amount of $N_2H_4 \cdot H_2O$ was dissolved in the reaction solution. After stirring for 3 h, the solution was cooled to room temperature and then the as-synthesized Ni chains were added in, with continuing sonicating for another 2 h. Finally, the black mixture was collected by centrifugation and washed several times using the deionized water and then freeze-dried at −50 °C for 48 h to get rGO/Ni hybrids powders. The mass ratio between rGO and Ni were 4:1, 2:1, 1:1, 1:2, and 1:4, respectively.

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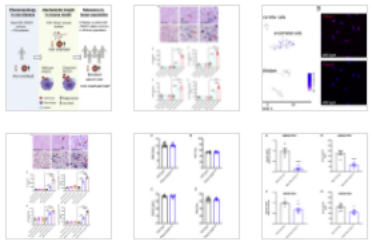

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Cell

Volume 184, Issue 4, 18 February 2021, Pages 969-982.e13

CellPress

Article

A role of PIEZO1 in iron metabolism in mice and humans

Shang Ma [1], Adrienne E. Dubin [1], Yunxiao Zhang [1], Seyed Ali Reza Mousavi [1], Yu Wang [1], Adam M. Coombs [1], Meaghan Loud [1], Immacolata Andolfo [2], Ardem Patapoutian [1, 3]

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"Iron"ing out hemophagocytosis through PIEZO1

Cell, Volume 184, Issue 4, 18 February 2021, Pages 856-858

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Highlights

- Expression of gain-of-function PIEZO1 in macrophages induces iron overload in mice

Ardem Patapoutian

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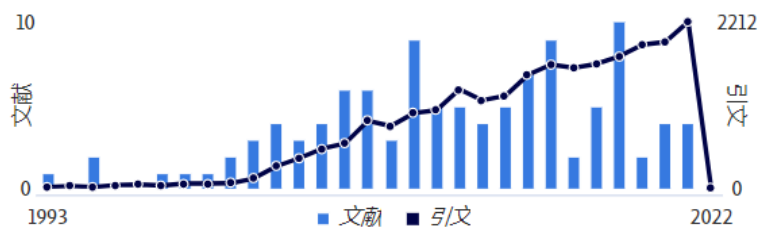

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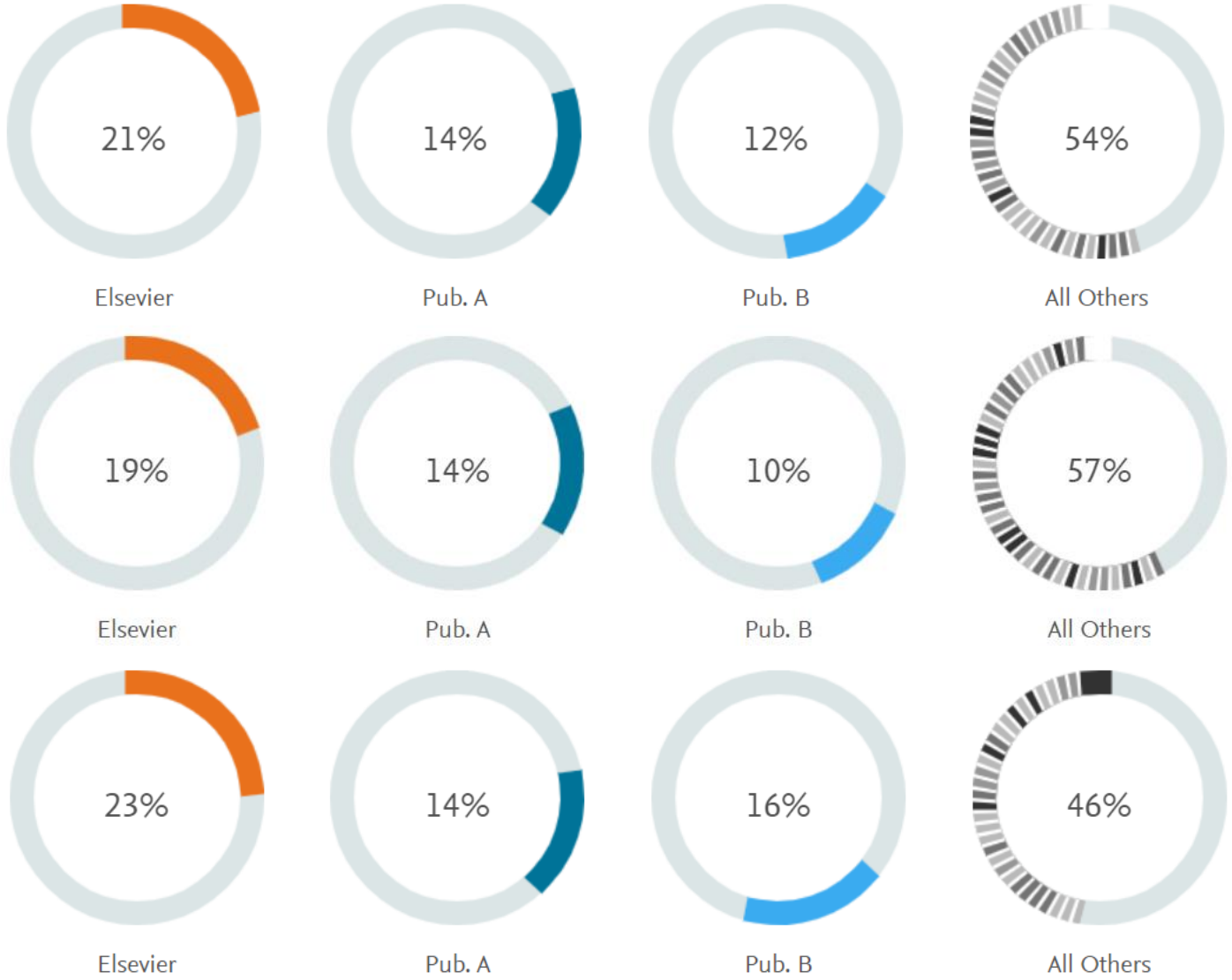

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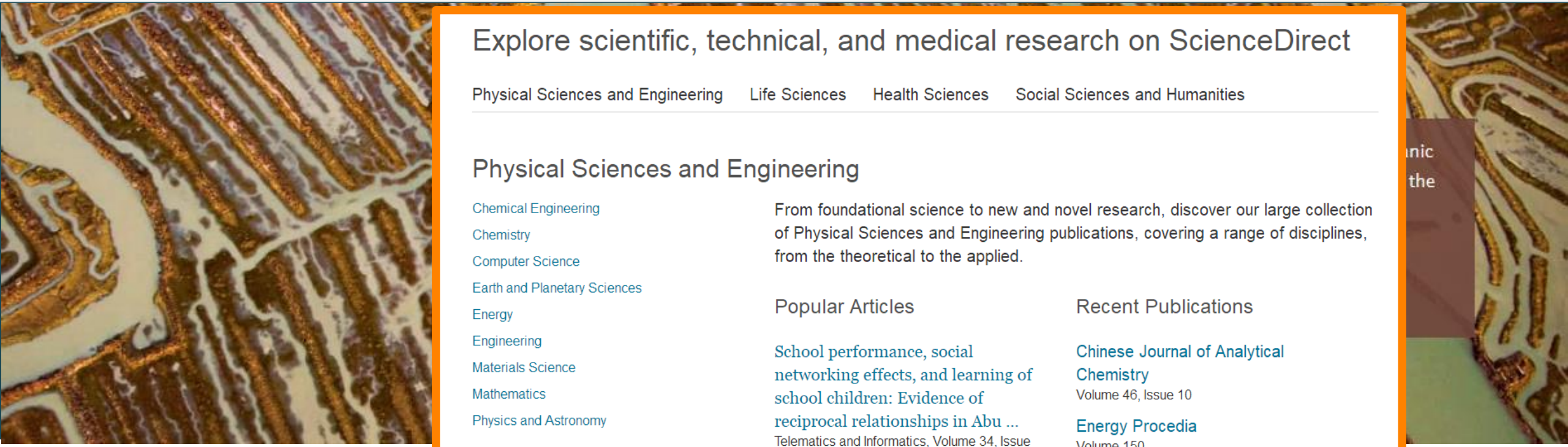

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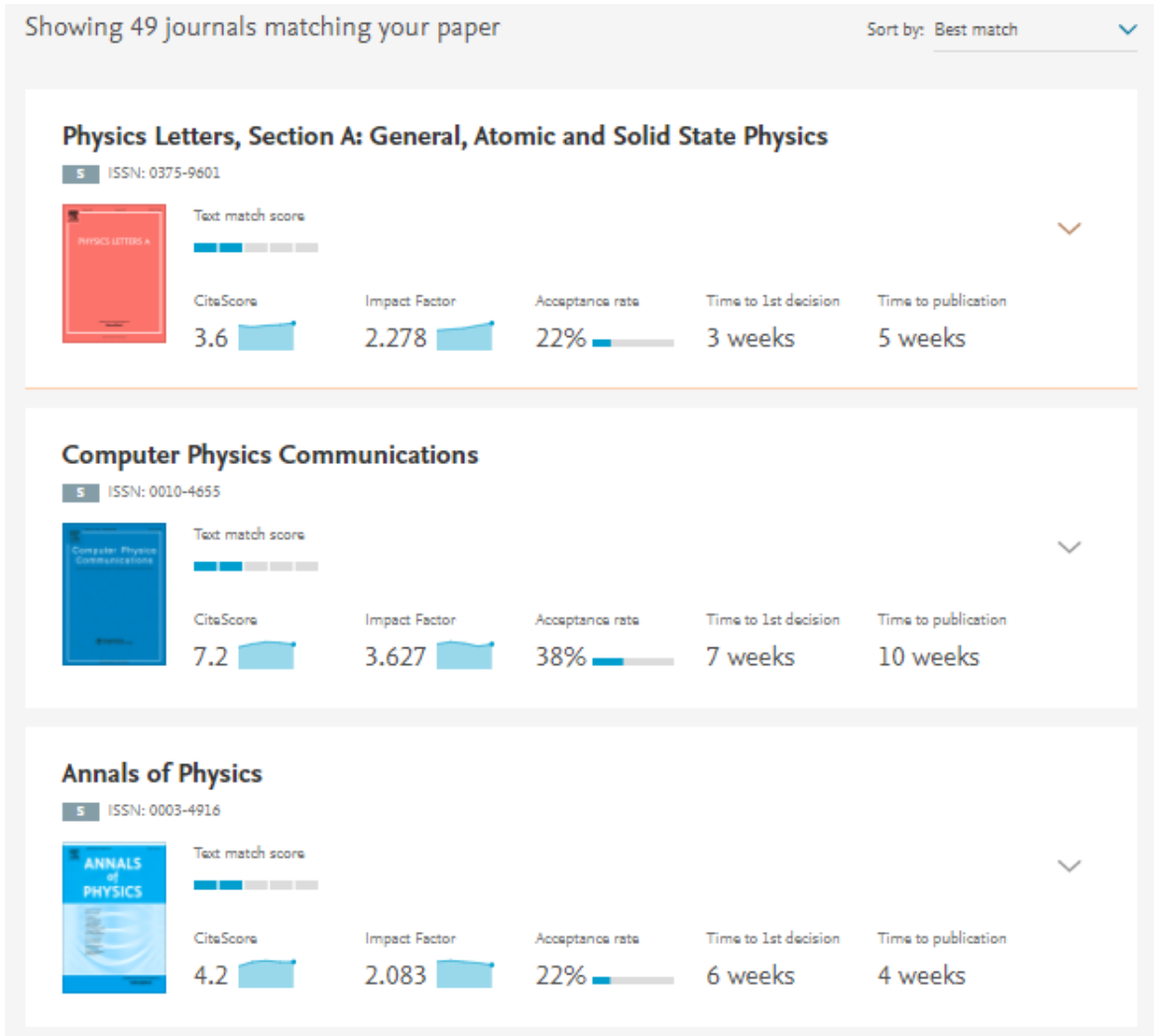

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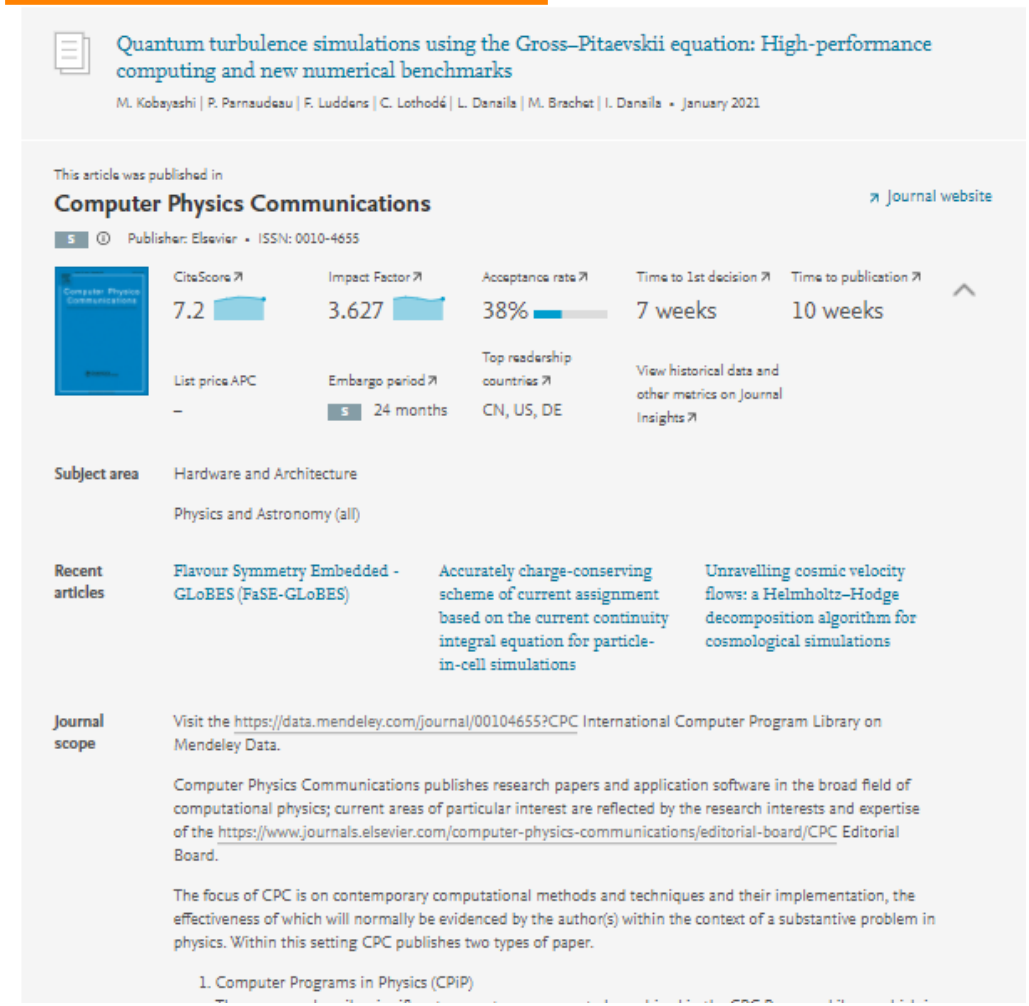

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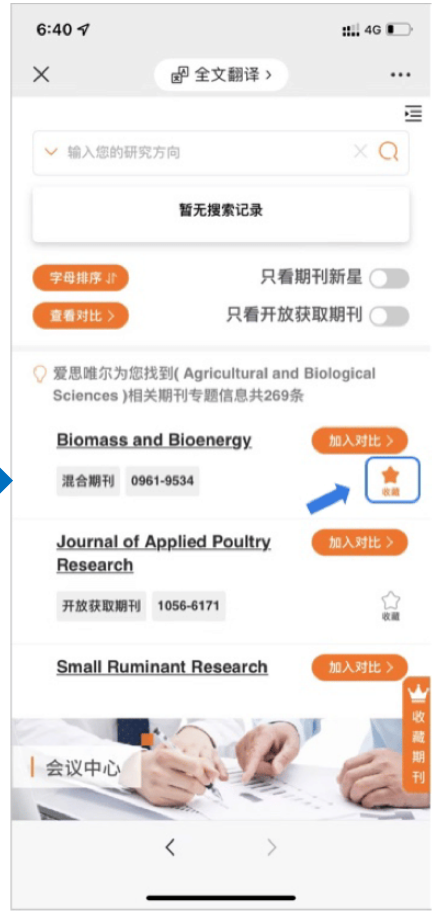

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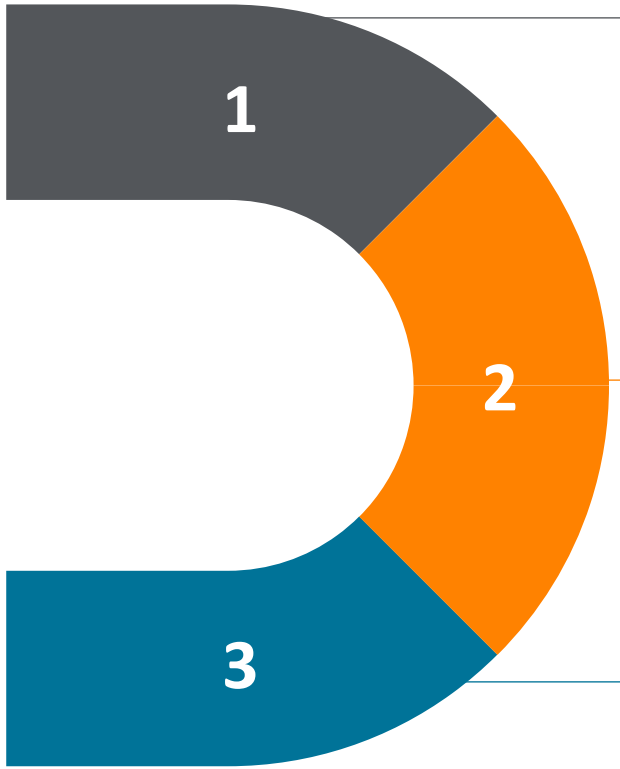

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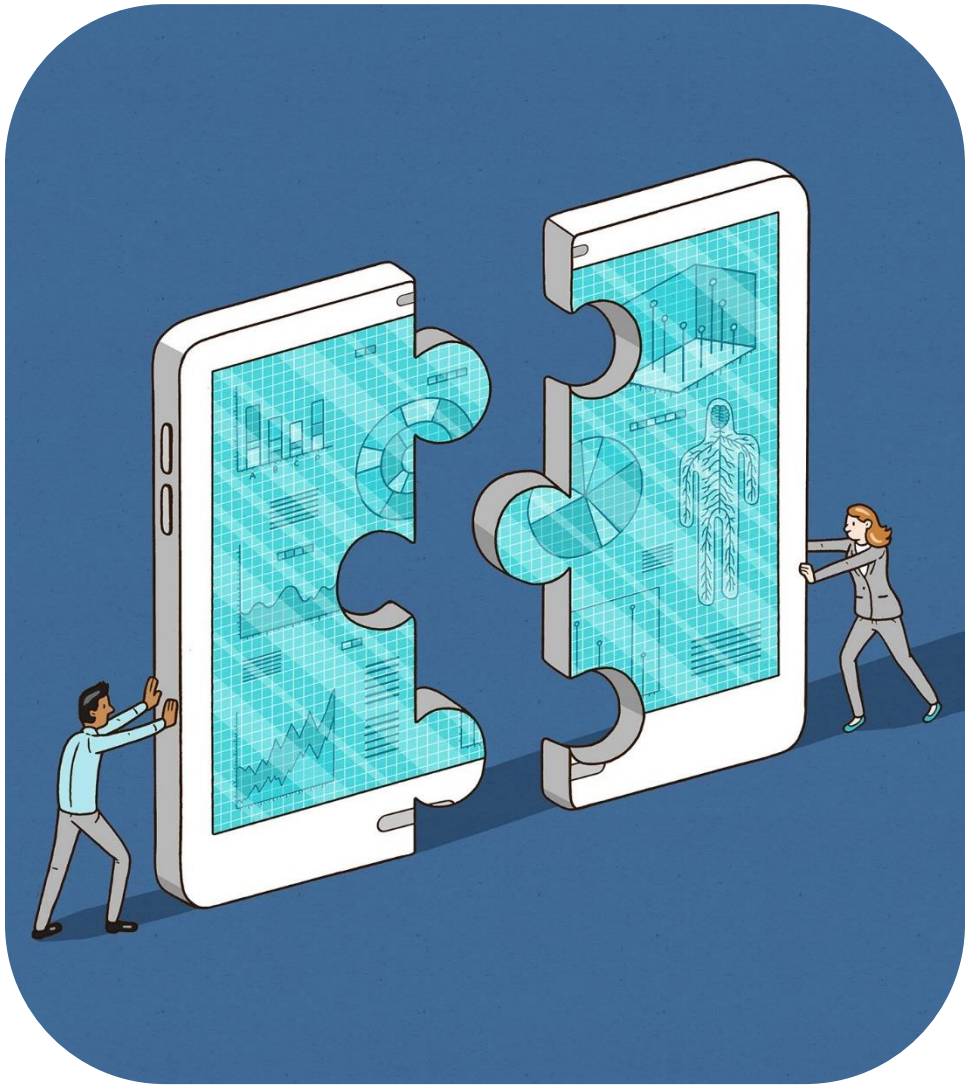

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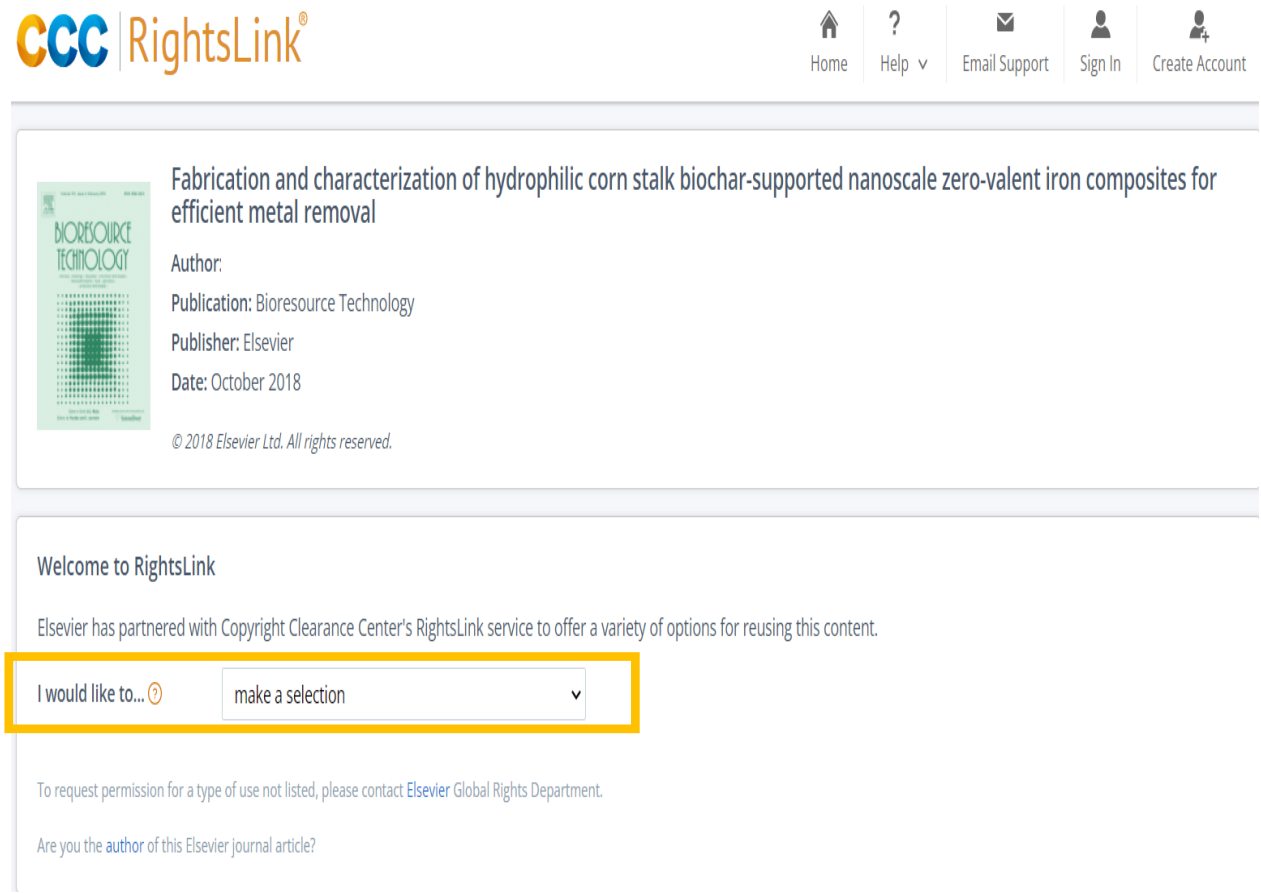

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