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张志杰 博士

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Volume 69, Issue 1, April 1996, Pages 153-185

Seminar  
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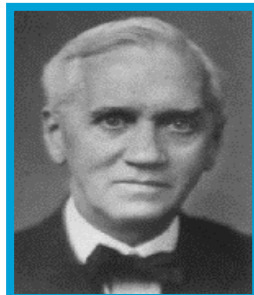
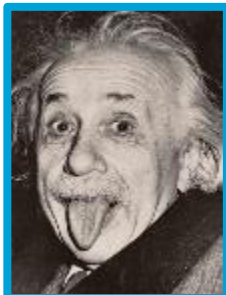
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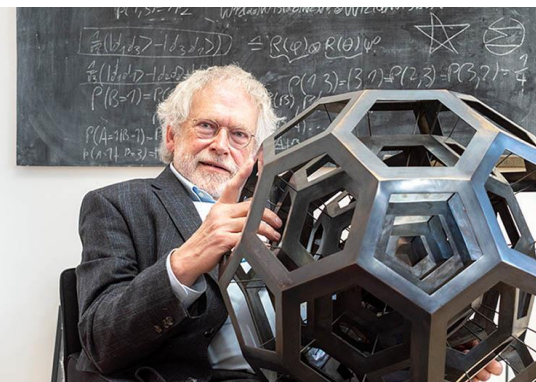
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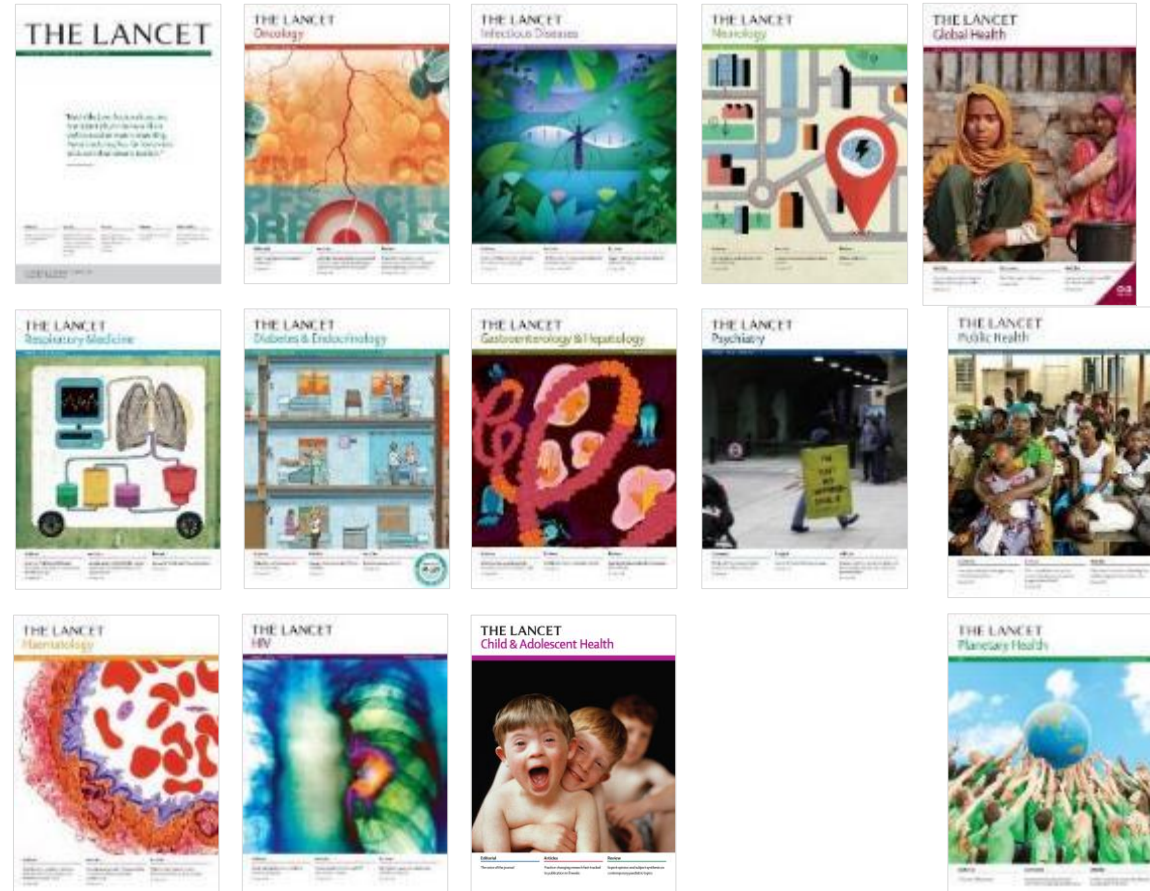




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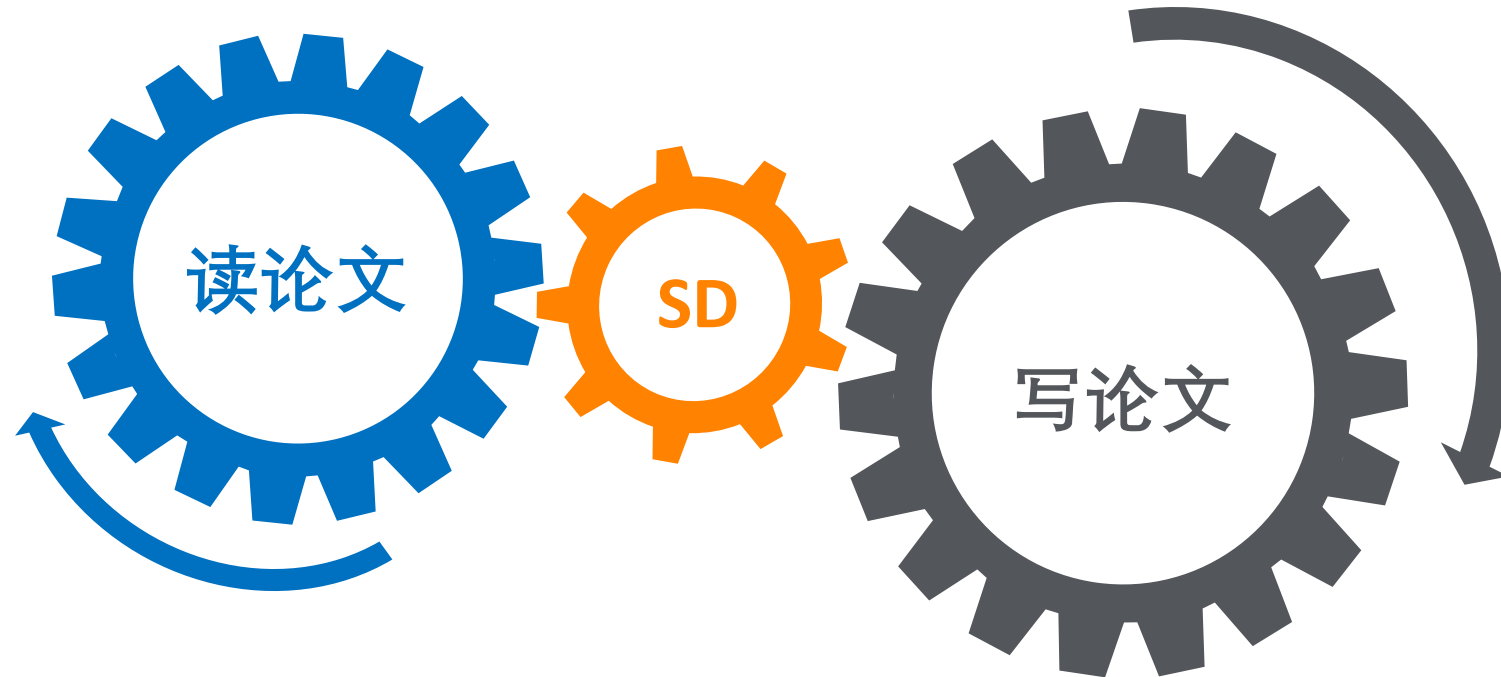


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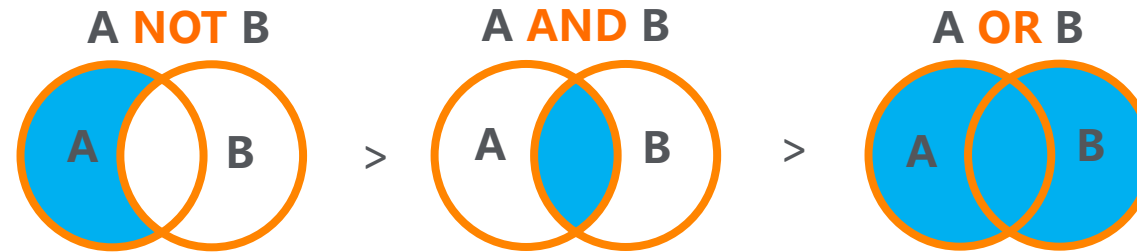
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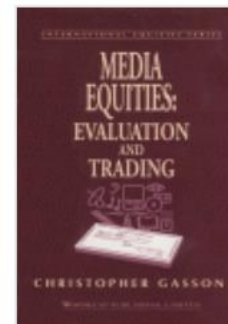
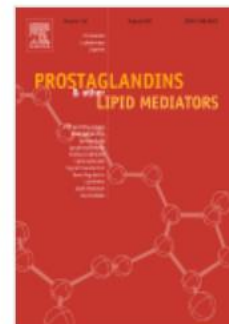
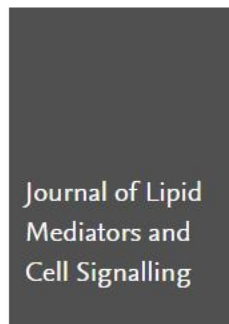
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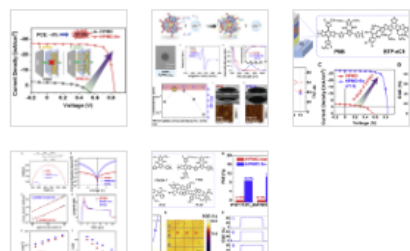
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# Joule





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<sup>1</sup>, Zhong Zheng<sup>1</sup>, Yunfei Zu<sup>1</sup>, Qing Liao<sup>1</sup>, Pengqing Bi<sup>1</sup>, Shaoqing Zhang<sup>2</sup>, Yi Yang<sup>1</sup>, Bowei Xu<sup>1</sup>    
Jianhui Hou<sup>1,3</sup>  

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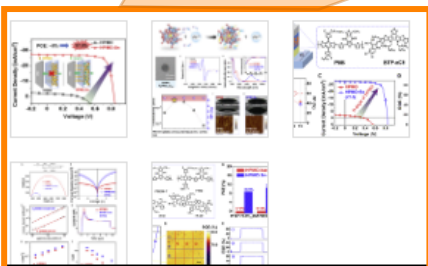
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*n*-doped inorganic type of hole-transporting organic semiconductor

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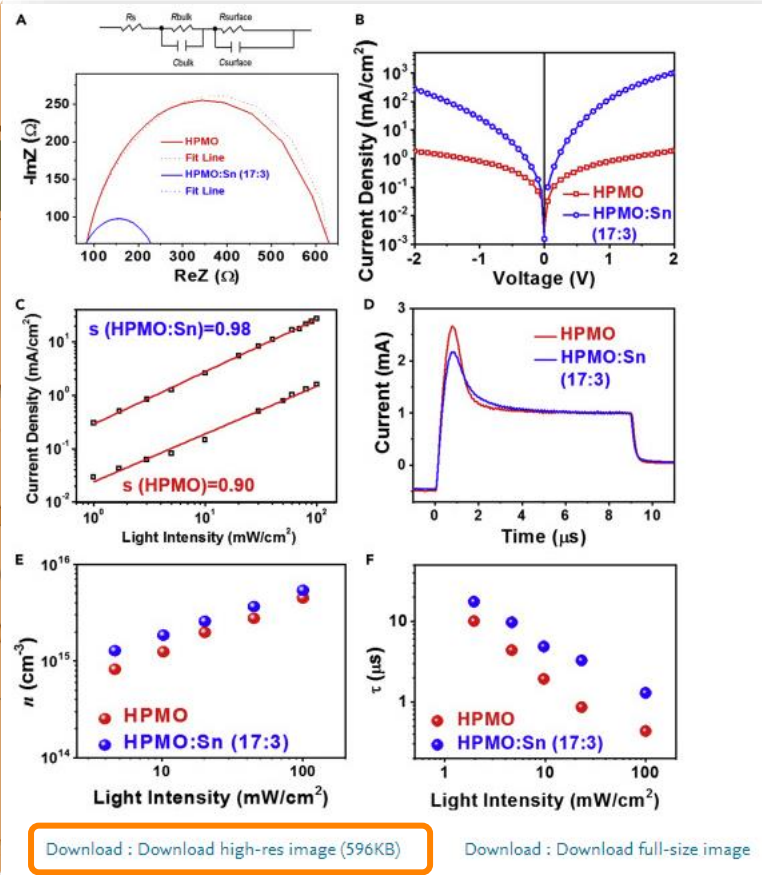
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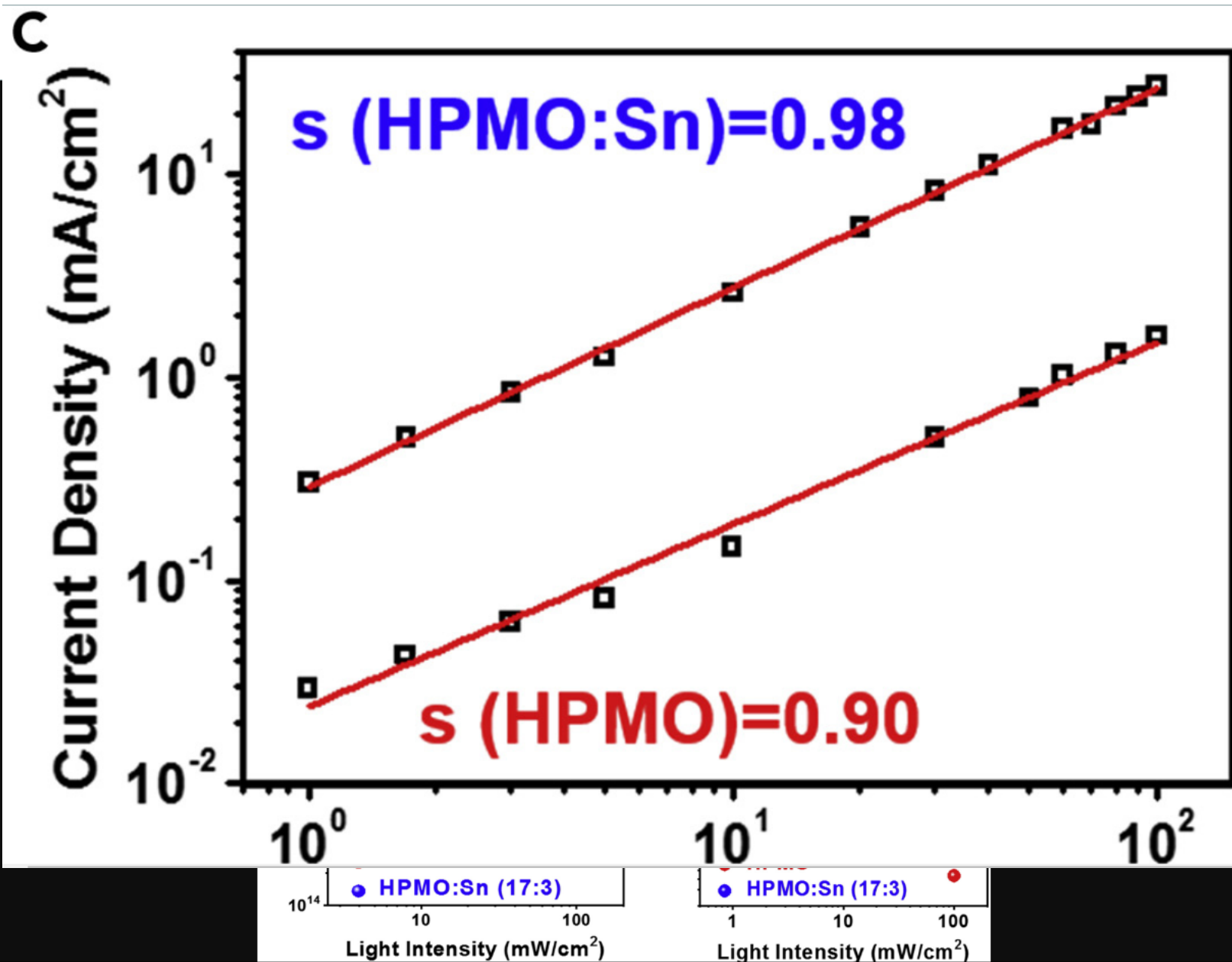
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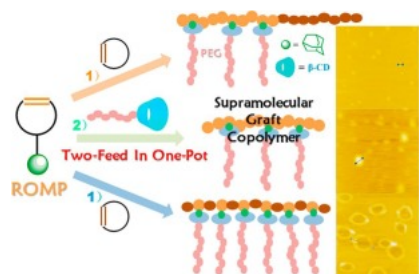
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followed by efficient complexation between cyclodextrin and adamantane to form amphiphilic supramolecular graft copolymers via a two-feed one-pot. Subsequently, amphiphilic supramolecular block and alternating copolymers were constructed using a similar technique via the copolymerization with cyclooctene in one-pot. Importantly, the degree of polymerization and molecular weight distribution of these supramolecular polymers were well controlled, and further they self-assembled into supramolecular nanostructures with diverse morphologies in aqueous solution. It is expected that this work will provide a new direction for designing and constructing noncovalent supramolecular metathesis polymers.

### Graphical abstract

Three types of noncovalently connected amphiphilic supramolecular copolymers were prepared relying on ring-opening metathesis polymerization and host-guest interaction via a two-feed procedure in one-pot; The polymers self-assemble into supramolecular nanostructures with diverse morphologies.



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## Ring Opening Metathesis Polymerisation

ROMP led to the ring opening of cyclopentene to a polypentenamer elastomer by breaking and reforming olefin double bonds with simultaneous opening of the unsaturated cycles of the monomers.

From: [Reference Module in Materials Science and Materials Engineering, 2019](#)

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## Ring-Opening Polymerization and Special Polymerization Processes

L.L. Kiessling, S.L. Mangold, in [Polymer Science: A Comprehensive Reference](#), 2012

### 4.28.1.5 Conclusions

ROMP can be used to construct a wide range of polymer architectures for a variety of applications. Advances in design and synthesis have led to exceptional chemoselectivity.

## Polymeric Materials – Well Defined Block Copolymers

M.U. Kahveci, ... C. Tsitsilianis, in [Reference Module in Materials Science and Materials Engineering](#), 2016

1. Definitions extracted from Elsevier books.

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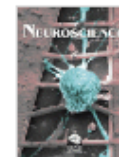
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Neuroscience

Volume 172, 13 January 2011, Pages 196–204



Cognitive, Behavioral, and Systems Neuroscience

A sex comparison of the anatomy and function of the main olfactory bulb–medial amygdala projection in mice

N. Kang<sup>a</sup>, E.A. McCarthy<sup>a</sup>, J.A. Cherry<sup>b</sup>, M.J. Baum<sup>a</sup>  

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<http://dx.doi.org/10.1016/j.neuroscience.2010.11.003>

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Abstract

We previously reported that some main olfactory bulb (MOB) mitral/tufted (M/T) cells send a direct projection to the “vomeronasal” amygdala in female mice and selectively respond to volatile male mouse urinary odors. We asked whether MOB M/T cells that project to the vomeronasal amygdala exist in male mice and whether there is a sexually dimorphic response of these neurons to volatile male urinary pheromones.

Gonadectomized male and female mice received bilateral injections of the retrograde

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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  $\text{NiCl}_2 \cdot 6\text{H}_2\text{O}$  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 ( $\sim 197^\circ\text{C}$ ) 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  $60^\circ\text{C}$  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  $90^\circ\text{C}$  in an oil bath under magnetic stirring, after that, a certain amount of  $\text{N}_2\text{H}_4 \cdot \text{H}_2\text{O}$  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  $-50^\circ\text{C}$  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.



W. Xu, Y.F. Pan, W. Wei, G.S. Wang, P. Qu

**Microwave absorption enhancement and dual-nonlinear magnetic resonance of ultra small nickel with quasi-one-dimensional nanostructure**

Appl. Surf. Sci., 428 (2018), pp. 54-60

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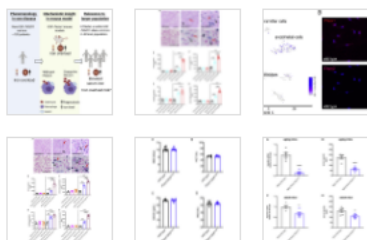
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**Cell**

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





Article

# A role of PIEZO1 in iron metabolism in mice and humans

Shang Ma <sup>1</sup>, Adrienne E. Dubin <sup>1</sup>, Yunxian Zhang <sup>1</sup>, Seved Ali Reza Mousavi <sup>1</sup>, Yu Wang <sup>1</sup>, Adam M. Coombs <sup>1</sup>, Meaghan Loud <sup>1</sup>, Immacolata Andolfo <sup>2</sup>, **Ardem Patapoutian <sup>1,3</sup>**  

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Referred to by Neil A. Hanchard, Ambroise Wonkam

"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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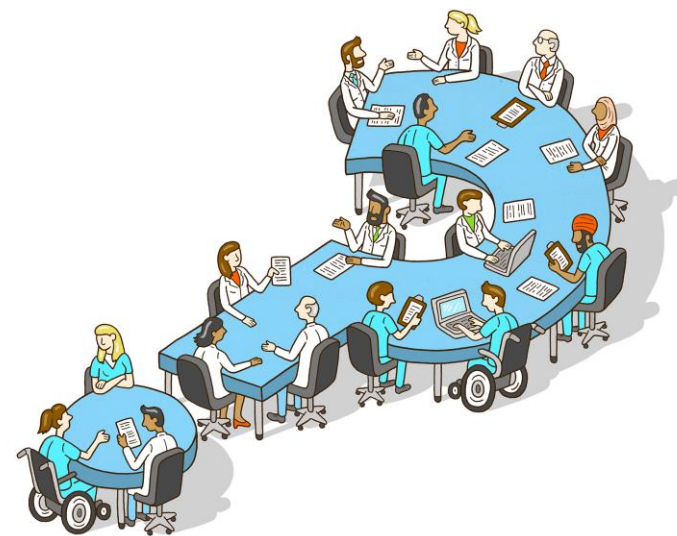
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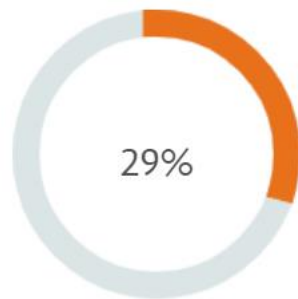


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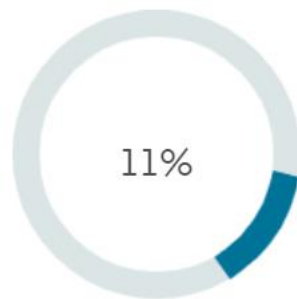
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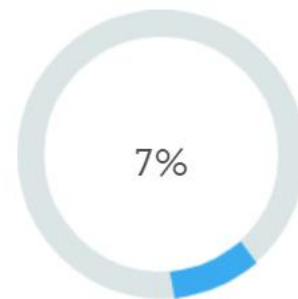
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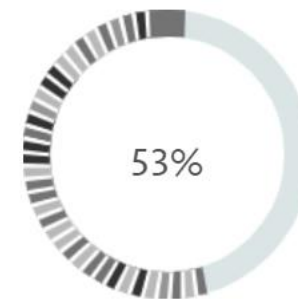
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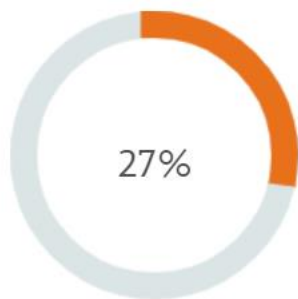


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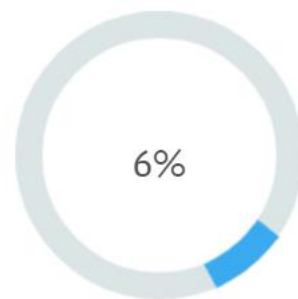
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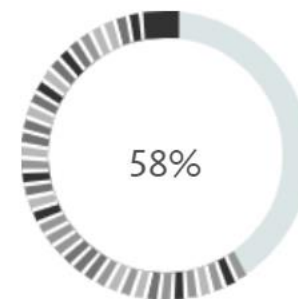
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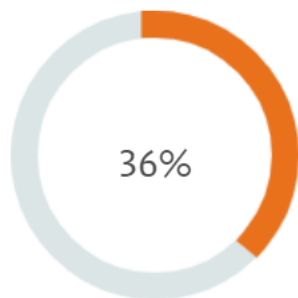


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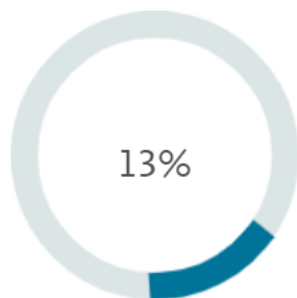
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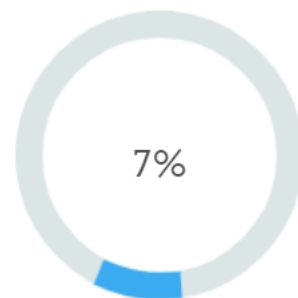
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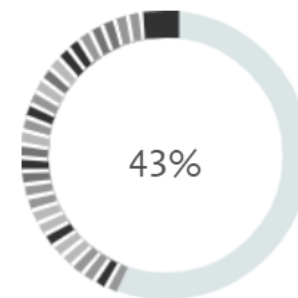
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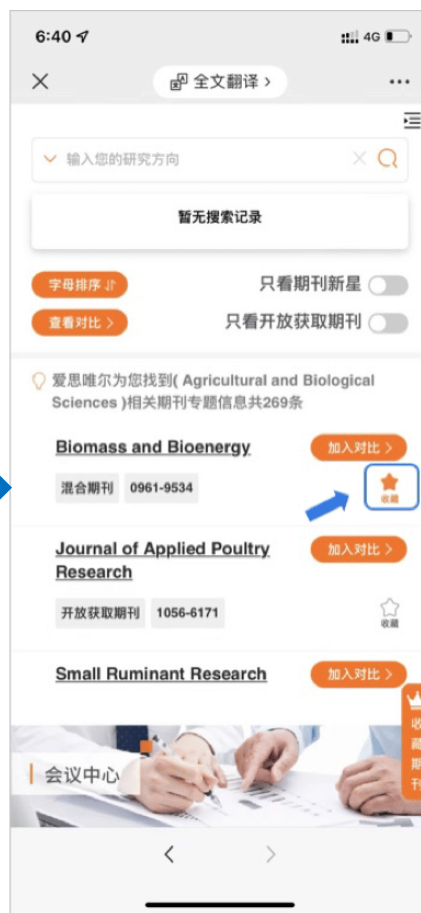
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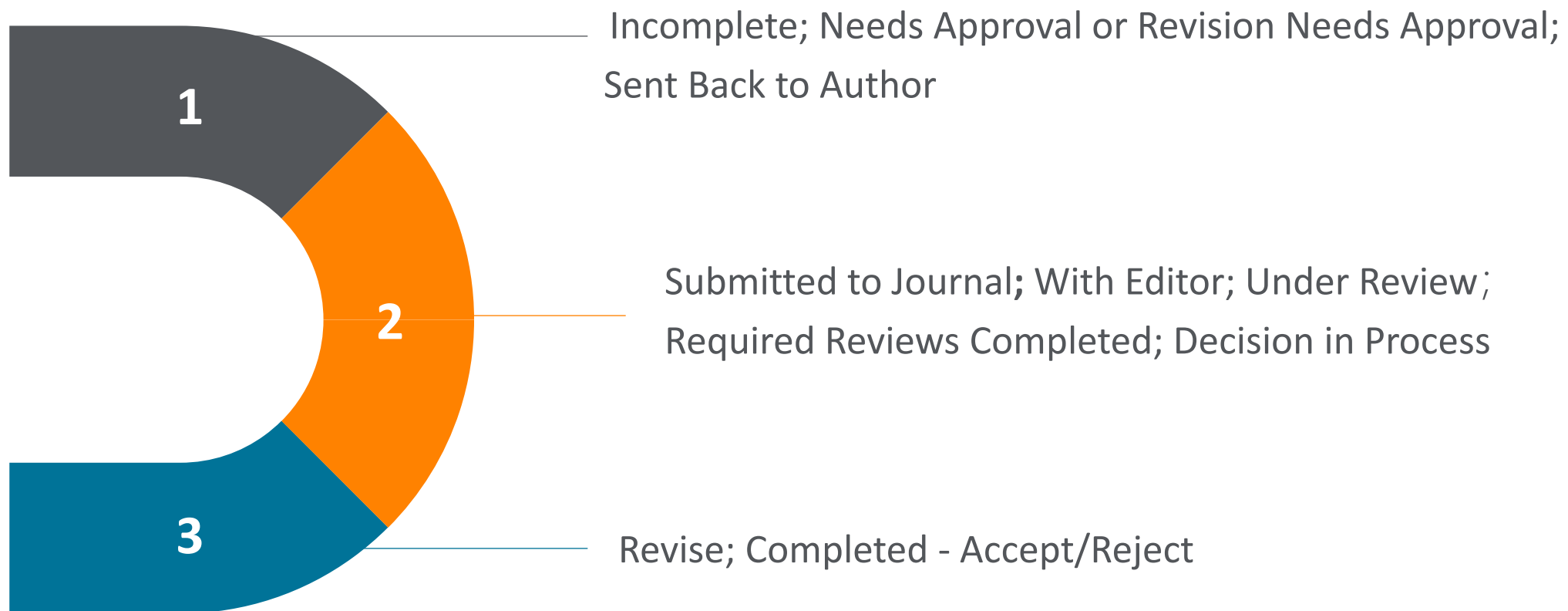
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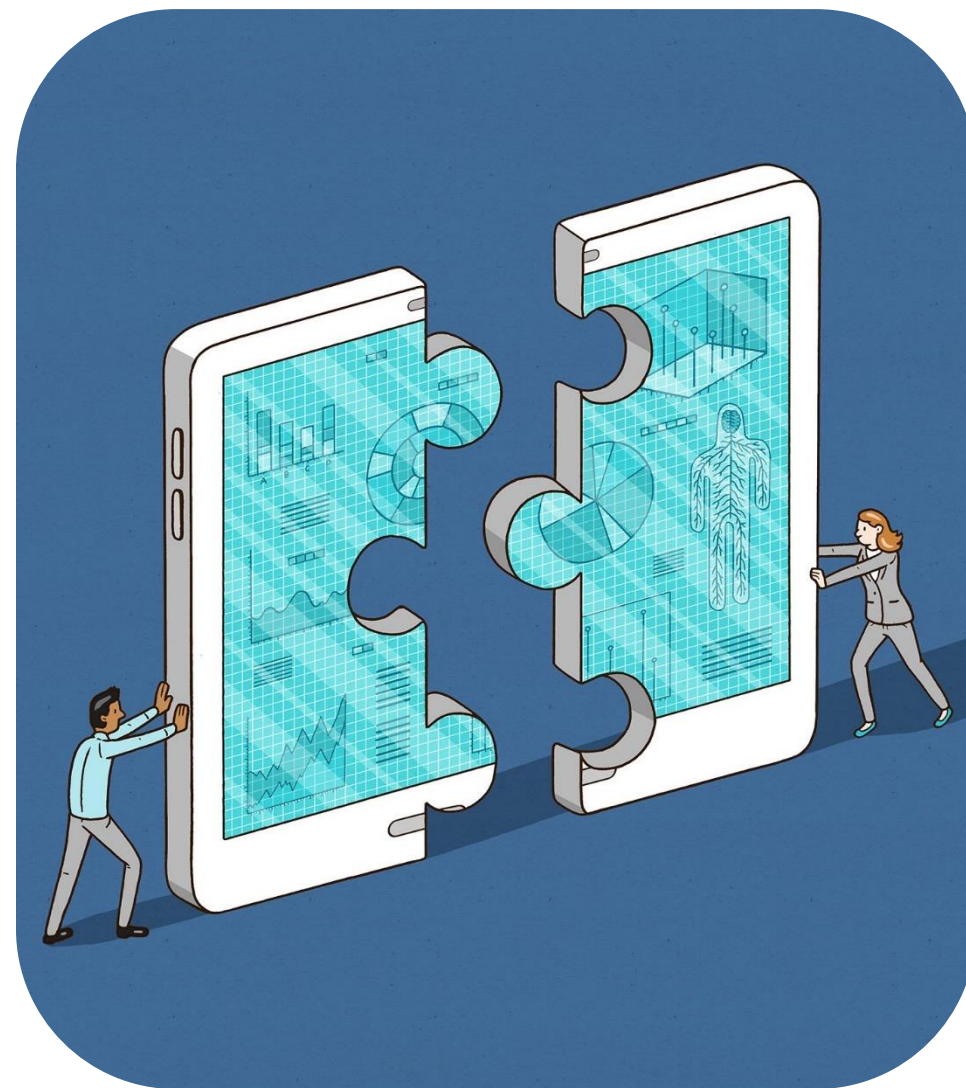


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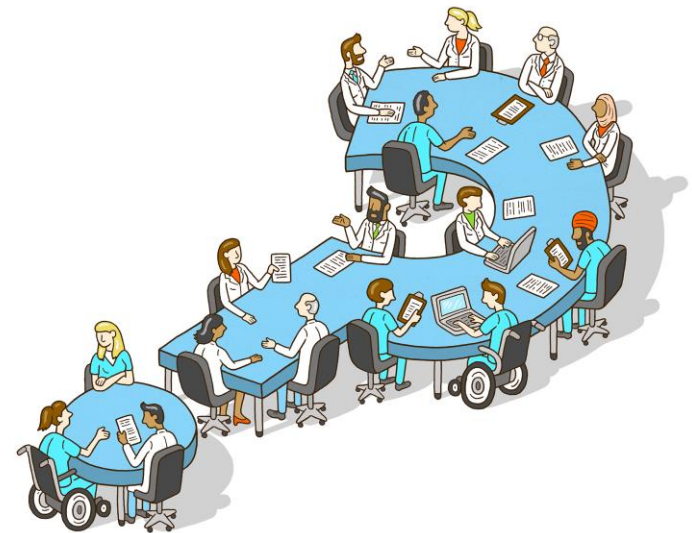


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