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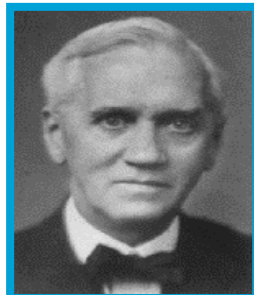
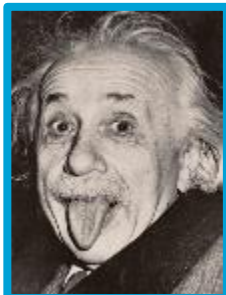
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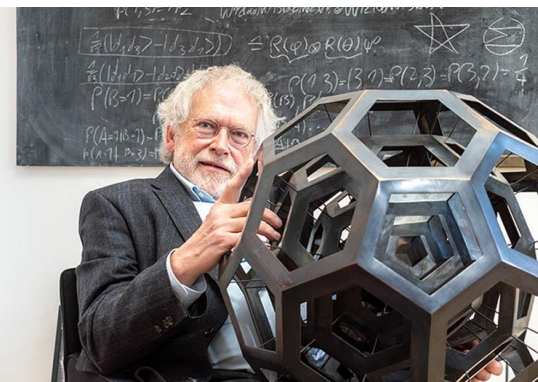


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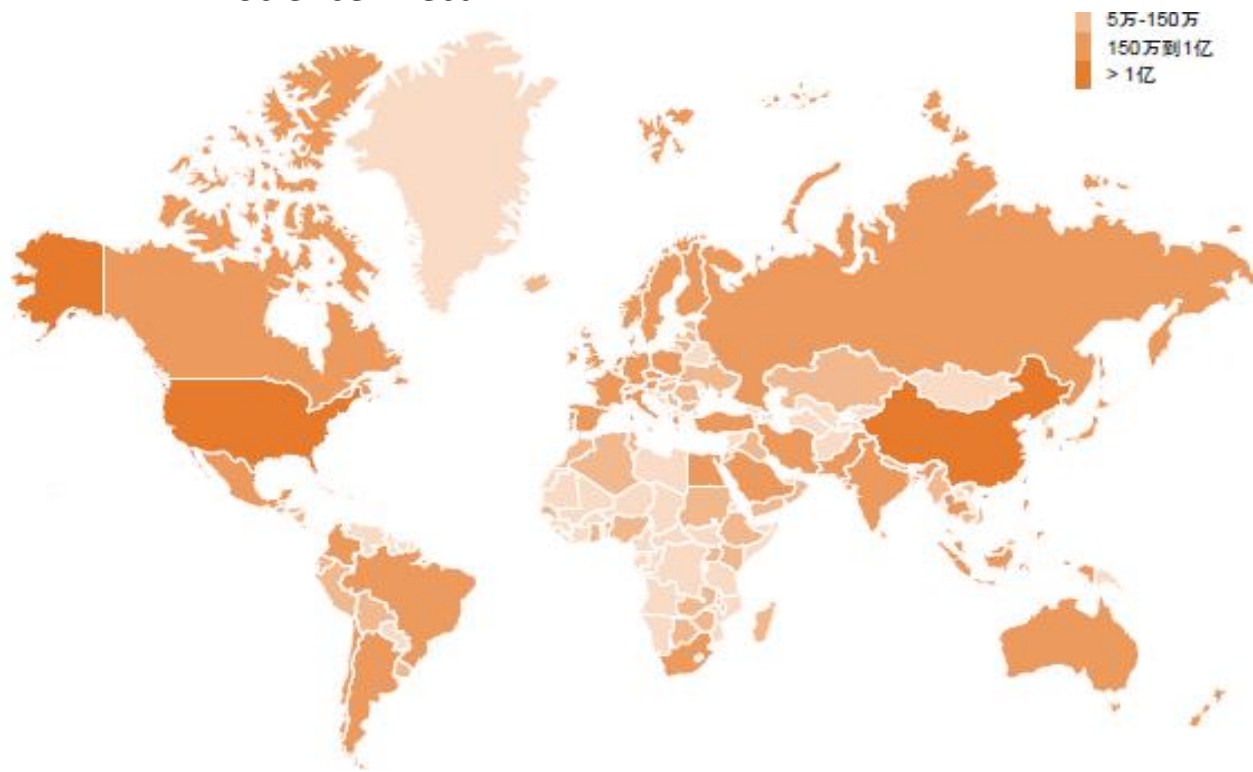
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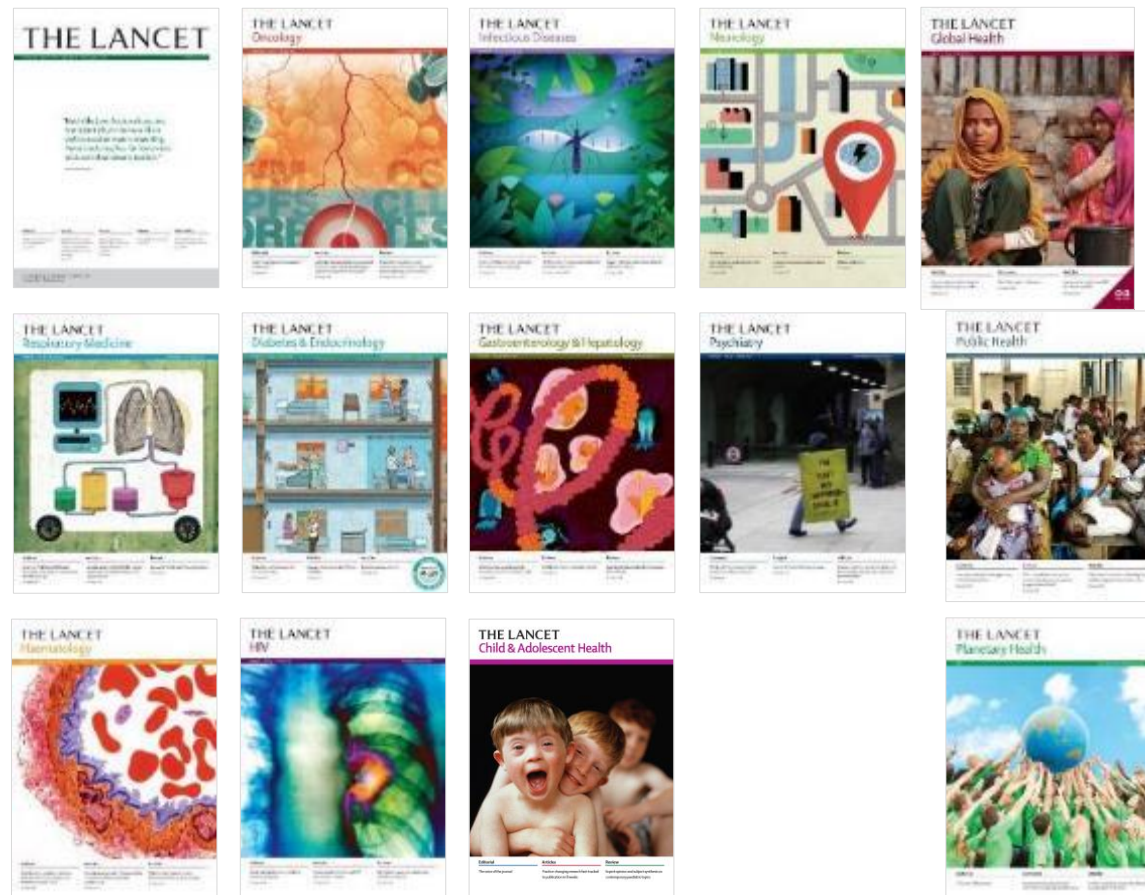
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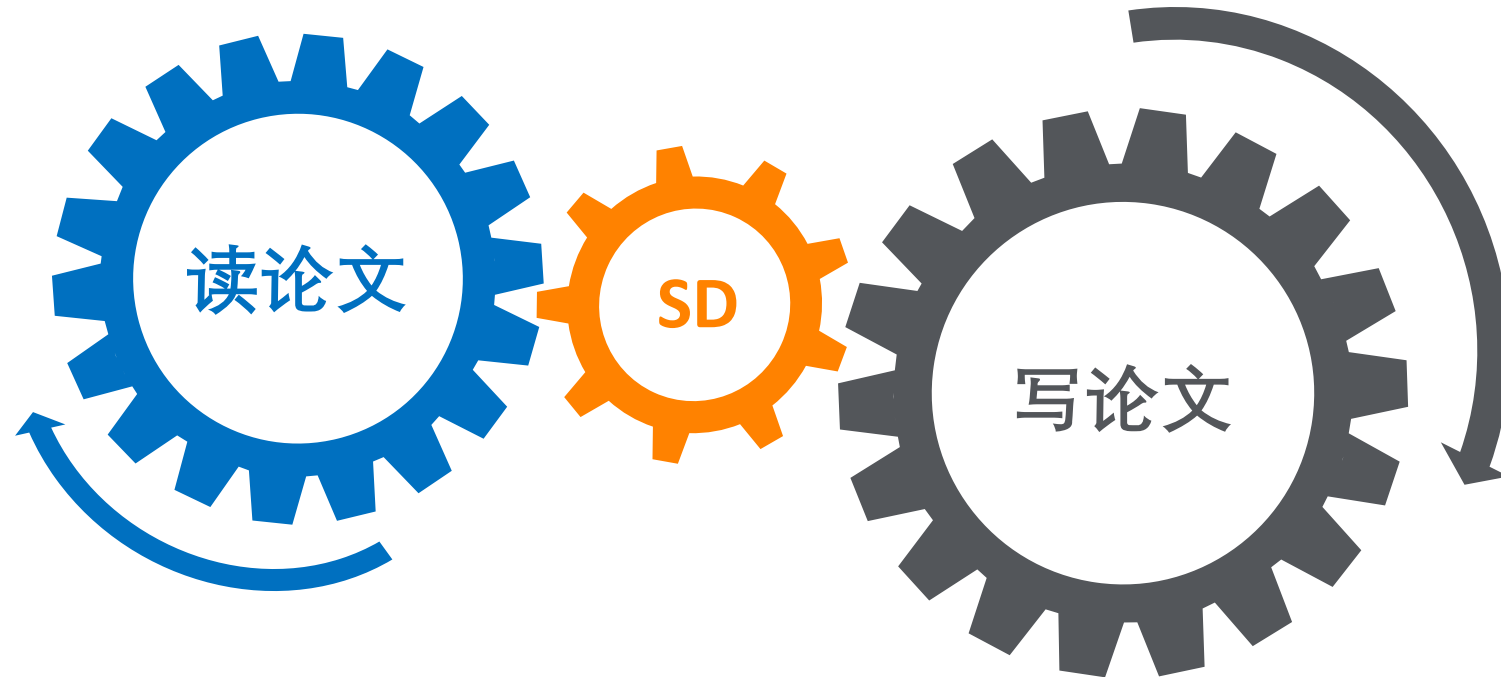
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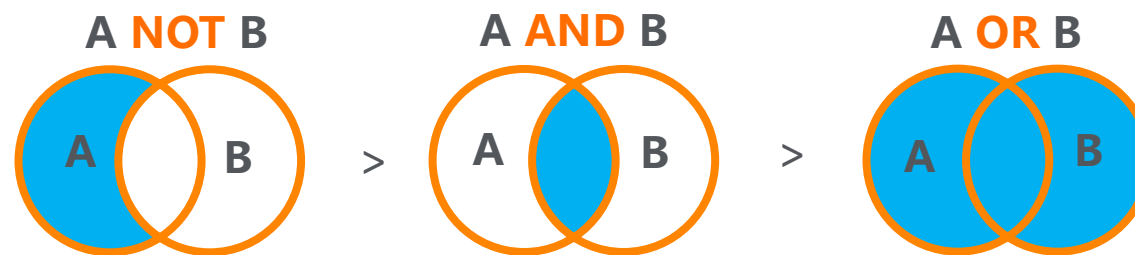
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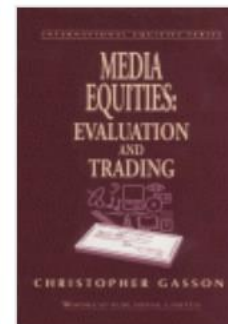
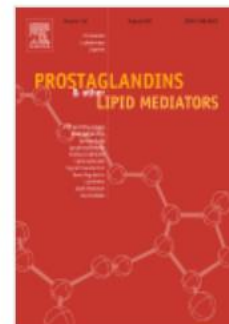
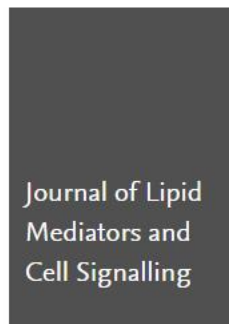
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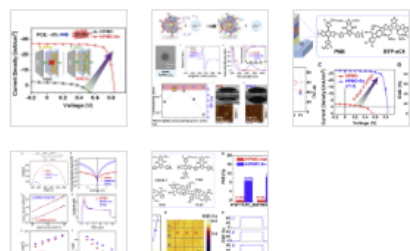
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Volume 5, Issue 3, 17 March 2021, Pages 646-658


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

Qian Kang¹, Zhong Zheng¹, Yunfei Zu¹, Qing Liao¹, Pengqing Bi¹, Shaoqing Zhang², Yi Yang¹, Bowei Xu¹  
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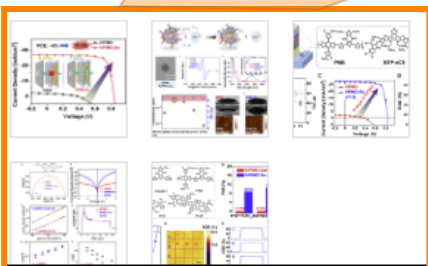
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n-doped inorganic type of hole-transport organic semiconductor

Qian Kang¹, Zhong Zhen¹, Jianhui Hou^{1,3}

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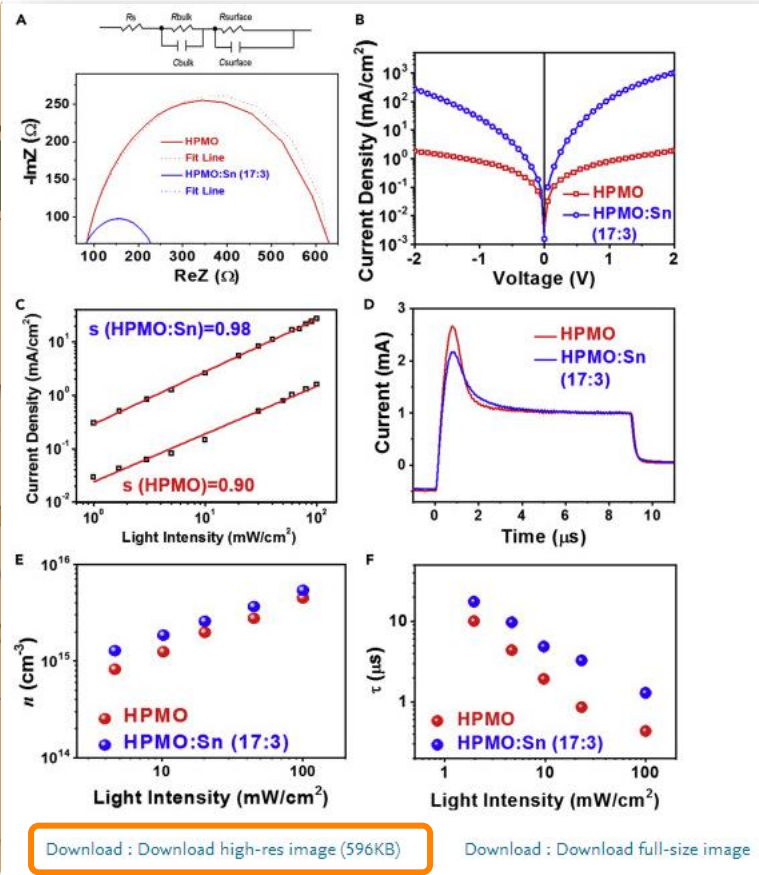
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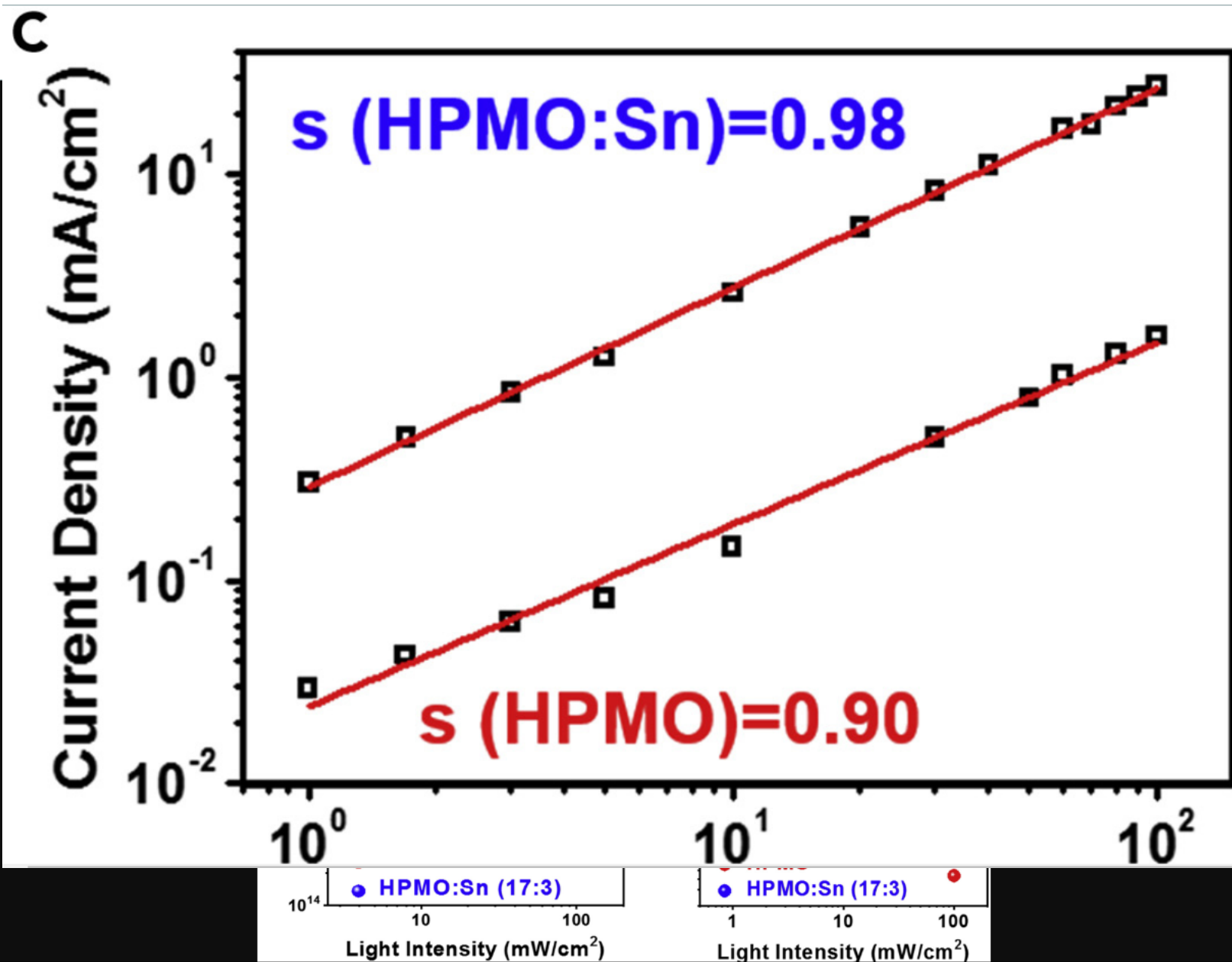
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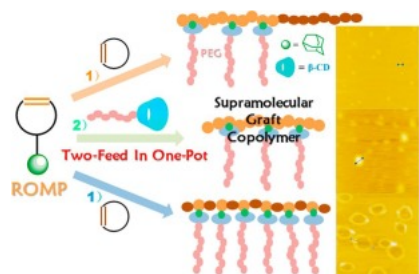
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followed by efficient complexation between cyclodextrin and adamantane to form amphiphilic supramolecular graft copolymers via a two-feed one-pot. Subsequently, amphiphilic supramolecular block and alternating copolymers were constructed using a similar 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 noncovalently connected 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](#)

2

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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

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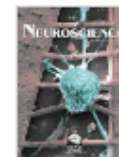
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Neuroscience

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^a, E.A. McCarthy^a, J.A. Cherry^b, M.J. Baum^a  

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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°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 $\text{N}_2\text{H}_4 \cdot \text{H}_2\text{O}$ 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°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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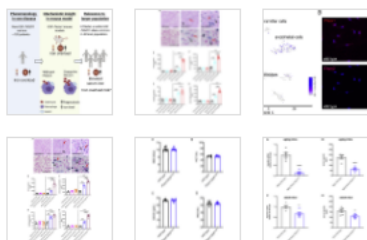
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Cell

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 ¹, Adrienne E. Dubin ¹, Yunxian Zhang ¹, Seved 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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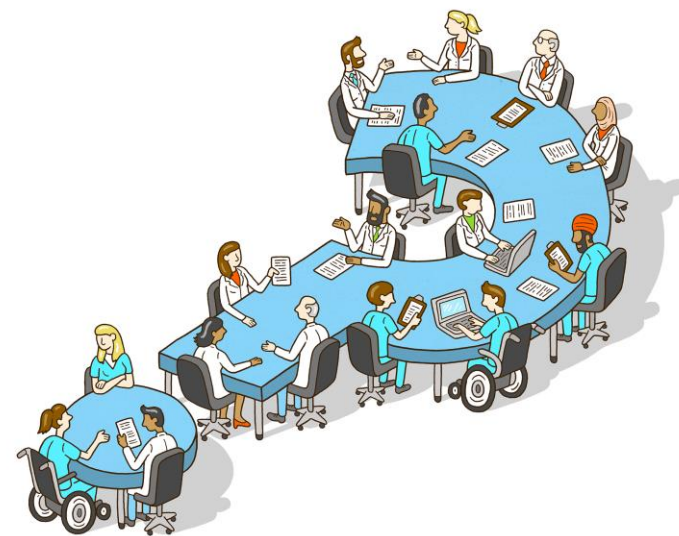
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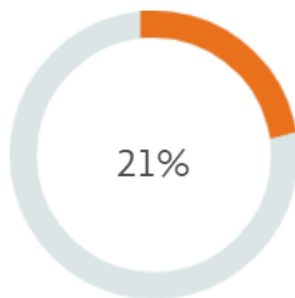
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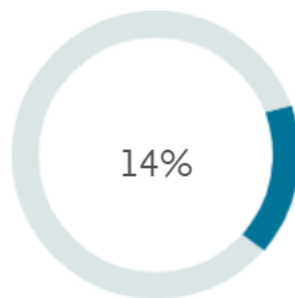
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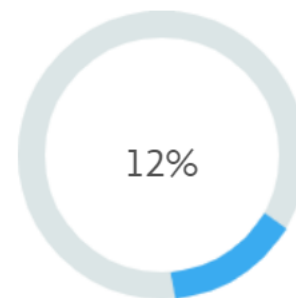
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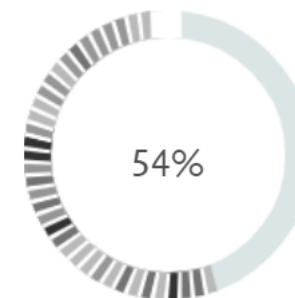
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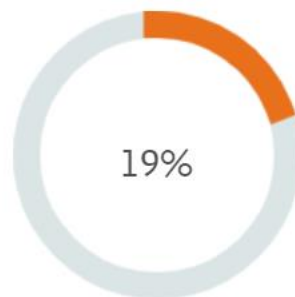
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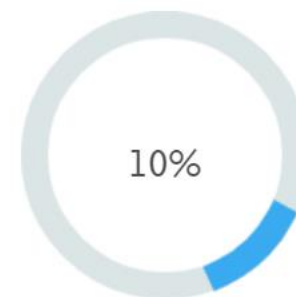
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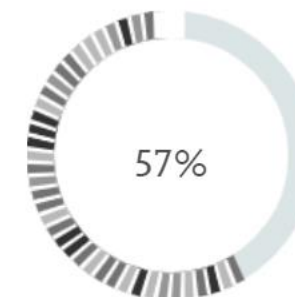
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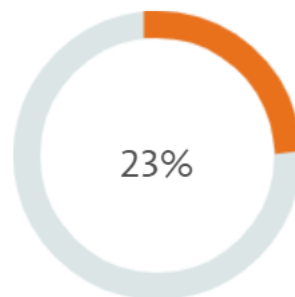
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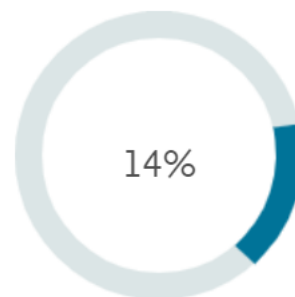
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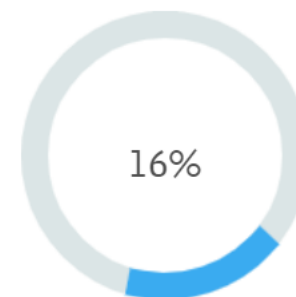
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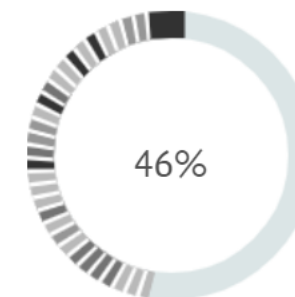
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6.	Journal of Alloys and Compounds	27,348
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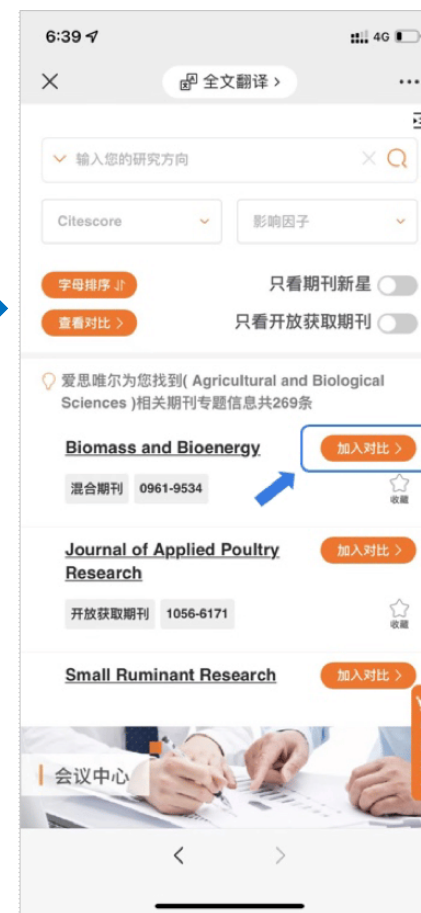


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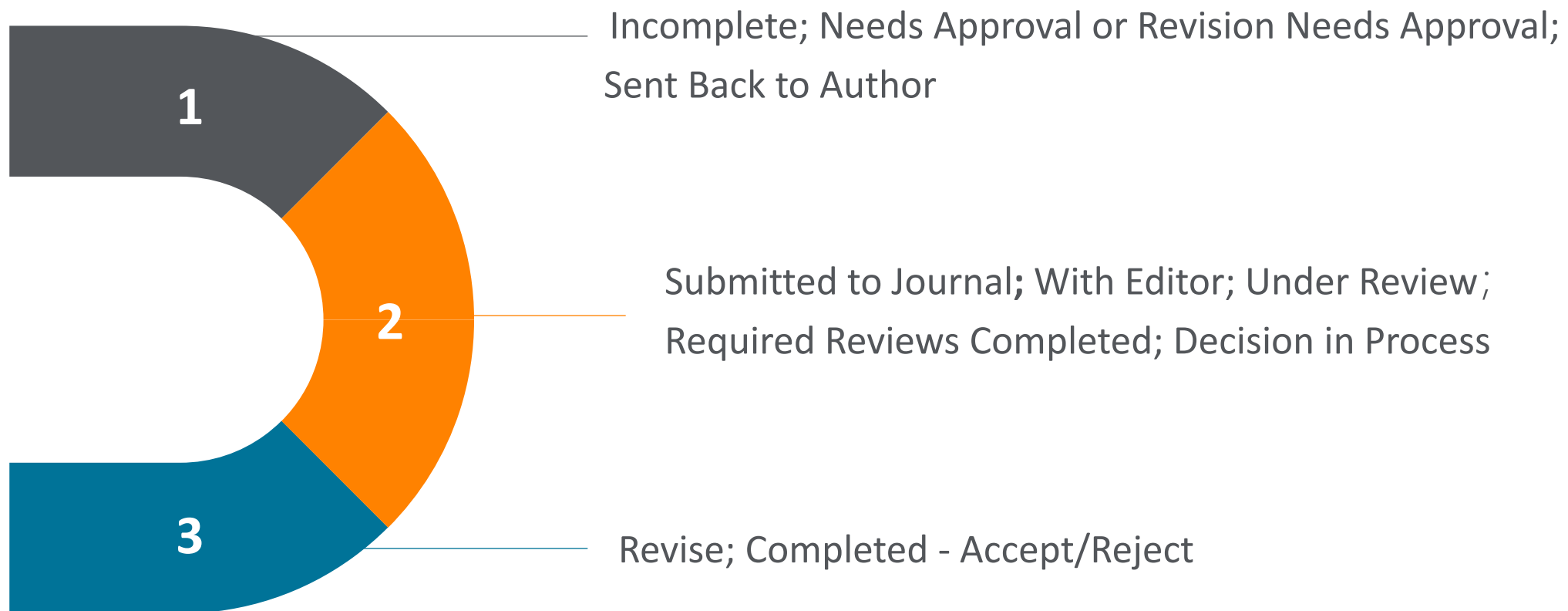
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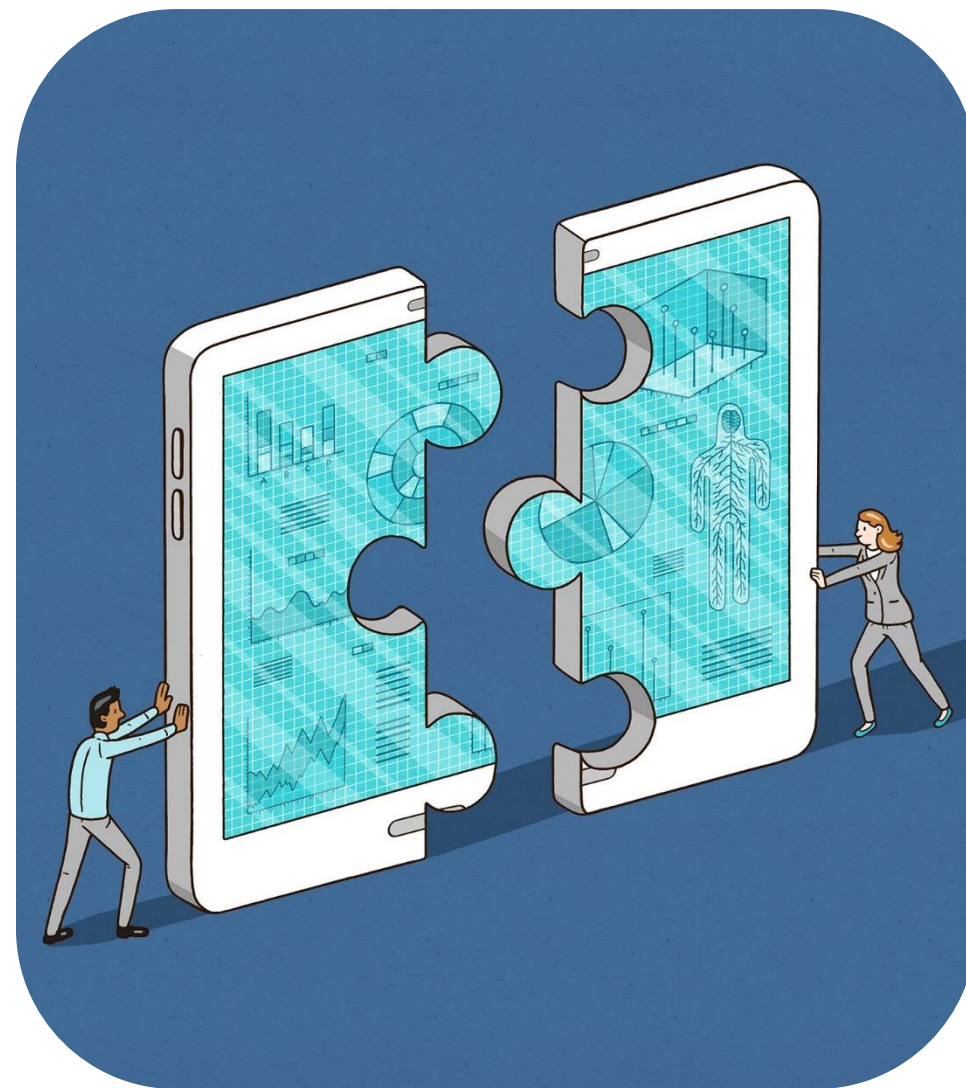


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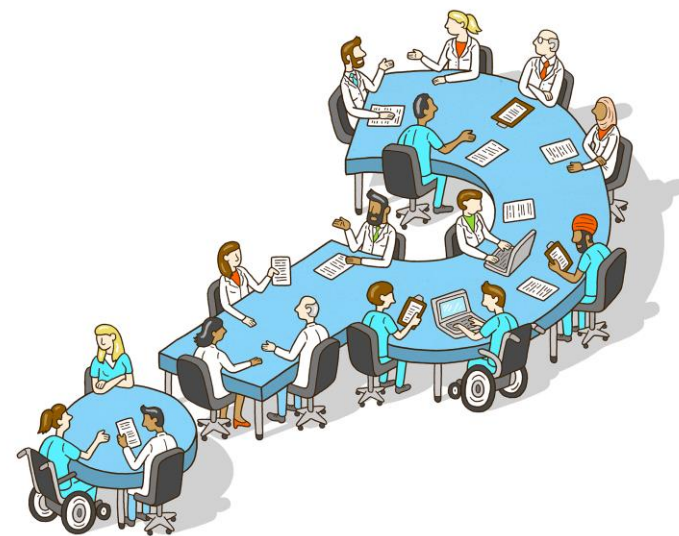


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