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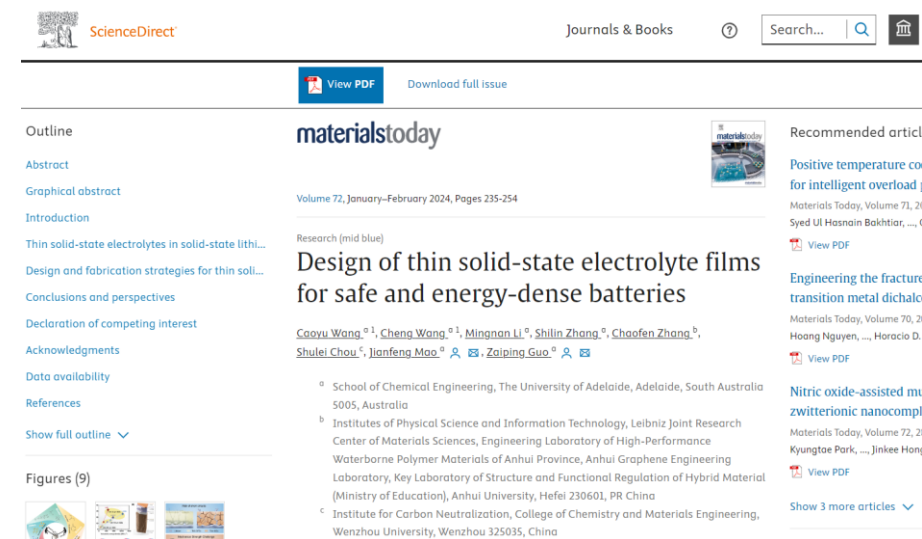
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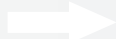
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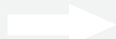
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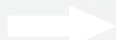
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Joule



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 Kang¹, Zhong Zheng¹, Yunfei Zu¹, Qing Liao¹, Pengqing Bi¹, Shaoqing Zhang², Yi Yang¹, Bowei Xu¹ , Jianhui Hou^{1,3} [Show more](#) [+ Add to Mendeley](#) [Share](#) [Cite](#)<https://doi.org/10.1016/j.joule.2021.01.011>[Get rights and content](#)Under an Elsevier [user license](#)[Open archive](#)

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- The HTL possesses low cost, easy preparation, and good compatibility

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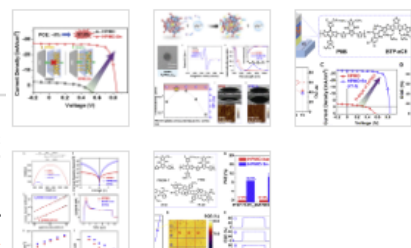
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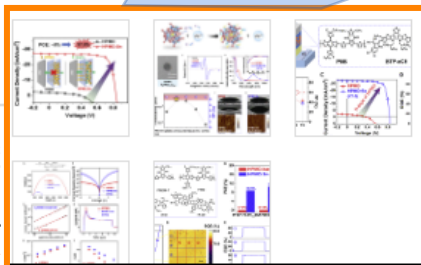
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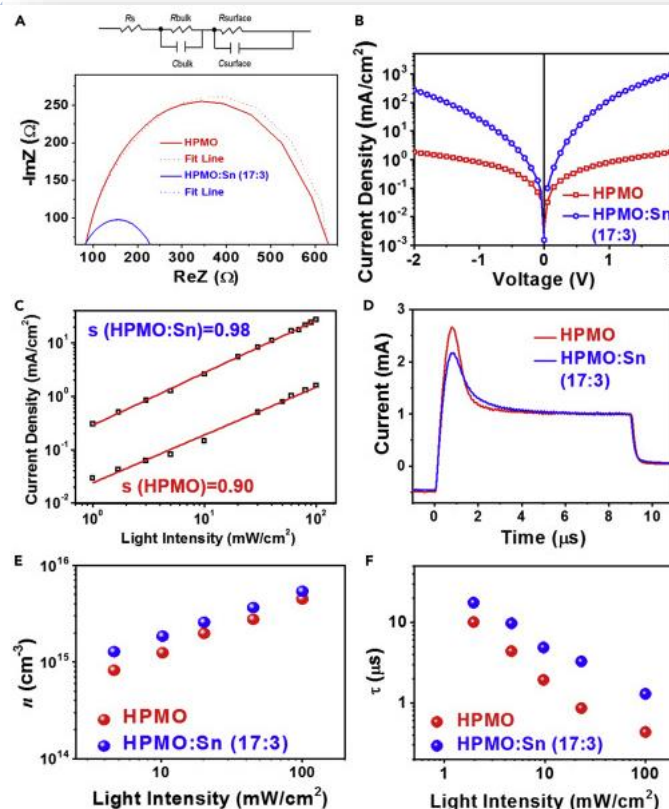
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Neuroscience
Volume 172, 13 January 2011, Pages 1

Cognitive, Behavioral, and Systems Neuroscience
A sex comparison of the anatomy and function of the olfactory bulb–medial amygdala projection
N. Kang^a, E.A. McCarthy^a, J.A. Cherry^b, M.J. Baum^a  
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<http://dx.doi.org/10.1016/j.neuroscience.2010.11.003>

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 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

Amygdala

The amygdala is an almond-shaped structure located within the anterior portion of the temporal lobes, comprising a component of the limbic system and known to play a part in controlling emotion, motivation, and memory.
From: *Social Anxiety* (Third Edition), 2014

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Amygdala

Deniz M. Yilmazer-Hanke, in *The Human Nervous System* (Third Edition), 2012
The human amygdala is a high-order limbic brain region almost exclusively of telencephalic origin, which is located in the mesiotemporal region and extends into the basal forebrain. It is a nuclear complex composed of cell groups sharing similarities with neurons in the cerebral cortex, striatum, pallidum, anterior peduncular region, and preoptic area. The deep and superficial cortex-like nuclei containing glutamatergic spiny pyramidal and stellate projection neurons as well as non-pyramidal GABAergic interneurons are the sensory input stations for cortical and subcortical afferents. Both the deep and superficial cortex-like nuclei

Affective System

Juri D. Kropotov, in *Quantitative EEG, Event-Related Potentials and Neurotherapy*, 2009
D Amygdala
Amygdala is a relatively small nucleus that lies deep inside the antero-inferior region of the medial temporal lobe²⁰. Amygdala could be considered as an interface between sensory world²¹ and emotions. Amygdala receives sensory information through the hippocampus from polymodal areas of the temporal and parietal cortex, extracts memories stored in the amygdala, and sends the results of the extraction to the prefrontal cortex through the dorso-medial nucleus of the thalamus.
Recordings in the human amygdala show that many neurons in it

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the synthesis of functional polymers first via ROMP and subsequently functionalized using noncovalent interactions. Therefore, it is essential to seek other simple highly efficient synthetic methods to prepare different types of supramolecular metathesis polymers.

In contrast with the traditional route for the fabrication of supramolecular polymers, a new way to prepare supramolecular polymer by polymerization of supramolecular monomer was proposed, which is similar to the macromonomer concept in traditional polymer science [20]. Different noncovalent interactions were used to construct supramolecular monomers with diversified structures, and different ways of covalent polymerization were employed to polymerize the supramolecular monomer. Meijer et al. and Zhang et al. prepared supramolecular graft copolymers and photoresponsive linear supramolecular polymers, respectively, by acyclic diene metathesis (ADMET) polymerization of supramolecular monomers containing a quadruple hydrogen bond motif [21], [22]. In view of the supramolecular monomer concept, a one-pot strategy is developed and simplifies the fabrication of supramolecular polymers. Grubbs et al. utilized ADMET polymerization of a supramolecular monomer comprising a polymerizable ammonium salt and crown ether to synthesize polyrotaxanes by a one-pot process [23]. More recently, we synthesized noncovalently connected amphiphilic supramolecular graft copolymers via a novel and facile approach combining host-guest interactions and ADMET polymerization in one-pot [24]. Although this method has an obvious advantage, supramolecular polymers prepared by the combination of noncovalent interactions with ROMP in one-pot process are scarcely reported in recent studies, which is easily accessible to synthesize various functional supramolecular materials.



Hydrogen Bond

Hydrogen bond is a kind of intermolecular force, which is the covalent interaction between a hydrogen atom and a very electronegative atom in another molecule.

From: International Journal of Hydrogen Energy, 2023

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Hydrogen Bond

Krzysztof Szalewicz, in
Encyclopedia of Physical Science and Technology (Third Edition), 2003

Palladium-Catalyzed Directed Arylation of Unactivated C(sp³)H Bonds

Bin Liu, ... Bing-Feng Shi, in

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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.

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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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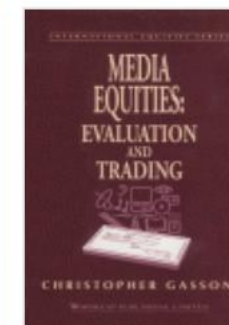
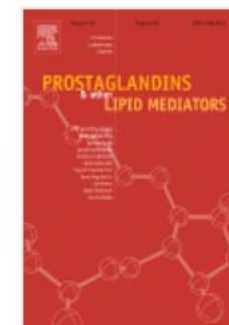
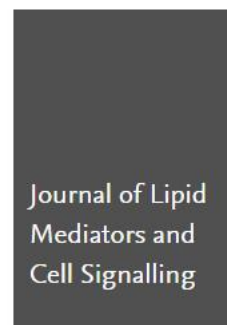
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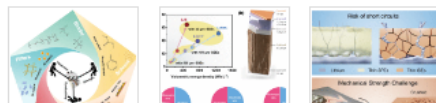
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materialstoday



Volume 72, January–February 2024, Pages 235–254

Research (mid blue)

Design of thin solid-state electrolyte films for safe and energy-dense batteries

Caoyu Wang^{a,1}, Cheng Wang^{a,1}, Mingnan Li^a, Shilin Zhang^a, Chaofen Zhang^b,
Shulei Chou^c, Jianfeng Mao^a , Zaiping Guo^a

^a School of Chemical Engineering, The University of Adelaide, Adelaide, South Australia 5005, Australia

^b Institutes of Physical Science and Information Technology, Leibniz Joint Research Center of Materials Sciences, Engineering Laboratory of High-Performance Waterborne Polymer Materials of Anhui Province, Anhui Graphene Engineering Laboratory, Key Laboratory of Structure and Functional Regulation of Hybrid Material (Ministry of Education), Anhui University, Hefei 230601, PR China

^c Institute for Carbon Neutralization, College of Chemistry and Materials Engineering, Wenzhou University, Wenzhou 325035, China

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Advanced Materials, Volume 36, Issue 7...
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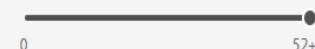
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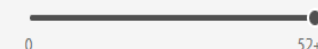
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M. Kobayashi | P. Parnaudeau | F. Luddens | C. Lothodé | L. Denaila | M. Brachet | I. Denaila • January 2021

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Effect of temperature history during additive manufacturing on crystalline morphology of PEEK

Austin Lee, Mathew Wynn, ... Navid Zobeiry

Advances in Industrial and Manufacturing Engineering
• 2022

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The study highlights that variations in printing parameters significantly affect the crystallinity of semi-crystalline polymers, which in turn influences their mechanical performance. Understanding these variations is crucial for additive manufacturing practices.

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Retrieving back plastic wastes for conversion to value added petrochemicals: opportunities, challenges and outlooks

Manish Kumar, Shiv Bolan, ... Nanthi Bolan

Applied Energy • 2023

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Additives can enhance the chemical, physical, and mechanical properties of polymers, impacting their performance in additive manufacturing. They also help reduce degradation from environmental factors, which is important for testing polymer properties.

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How can I test the effects of additive manufacturing on the structure, mechanical properties, and crystallinity of polymers?

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Summary answer

Testing the Effects of Additive Manufacturing on Polymers

To test the effects of additive manufacturing on the structure, mechanical properties, and crystallinity of polymers, consider the following steps:

**1. Printing Parameters:

- **Crystallinity Variability:** Adjusting printing parameters can significantly affect the crystallinity within the polymer part, which in turn influences mechanical performance and chemical stability ([Lee et al., 2022](#)), ([Hart, Dunn & Wetzel, 2020](#)).
- **Thermal Cycles:** The complex thermal cycles during additive manufacturing can alter microstructures, impacting mechanical properties such as tensile strength ([Lia et al., 2018](#)).

**2. Mechanical Properties:

- **Internal Defects:** Monitor for internal defects like voids, which can affect mechanical properties and lead to failure in lattice structures under stress ([Wei et al., 2024](#)).
- **Print Orientation:** Investigate the effects of print orientation on mechanical properties. For instance, layer orientation can affect tensile fracture behavior and anisotropic mechanical performance ([Palma et al., 2019](#)), ([Dai et al., 2024](#)).
- **Process Parameters:** Vary process parameters such as infill pattern and density to observe changes in tensile, compression, flexural, or impact strength ([Vallejos Baier et al., 2021](#)).

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Answer found in section: "Manufacturing of plastics"

Improvements to the basic chemical, physical and mechanical properties can be done through the incorporation of additives. These also have protective effects, reducing degradation of the polymer from light, heat, or bacteria [2]. They have an impact on viscosity and melt flow in polymer manufacturing. Moreover, additives give products their colour and other unique qualities including increased surface properties, less friction, and flame retardancy [8].

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Article Increased fracture toughness of additively manufactured semi-crystalline thermoplastics via thermal annealing ↗ Kevin R. Hart, Ryan M. Dunn, Eric D. Wetzel Polymer • Volume 211 • 2020 Export article as CSV	Fracture toughness testing	To evaluate the critical elastic-plastic strain energy release rate (J _{1c}) of the interlaminar region of additively manufactured single edge notched bend (SENB) specimens made from polylactide (PLA) polymer, and to study the effect of post-print thermal annealing and cooling rate on the degree of crystallinity and fracture toughness.	Single edge notched bend (SENB) specimens measuring 100 × 20 × 10 mm, fabricated using fused-filament fabrication (FFF) with 1.75 mm polylactide (PLA) filament, printer nozzle diameter of 0.5 mm, nozzle temperature of 200 °C, bed temperature of 50 °C, 454 layers with [0/90] orientation, 2 perimeter shells, 100% infill density, layer height of 0.22 mm, 12.7 μm thick poly-imide (Kapton) tape as pre-crack notch.	SENB specimens were subjected to post-print thermal annealing at 160 °C for 2 hours, then cooled at various rates (quenched in ice water or cooled at 1 °C/min) to induce different degrees of crystallinity. Fracture testing was performed in three-point bending in displacement control at 0.5 mm/min, with crack propagation monitored using a CCD camera. Fracture surfaces were analyzed using optical and scanning electron microscopy.	As-printed PLA SENB specimens had an interlaminar fracture toughness of 2.73 ± 0.48 kJ/m ² . Annealed and quenched specimens (amorphous, 0% crystallinity) had a toughness of 5.62 ± 1.81 kJ/m ² . Annealed and slowly-cooled specimens (25% crystallinity) had a toughness of only 0.63 ± 0.017 kJ/m ² .	Annealing can increase the interlaminar toughness of additively manufactured PLA, but only if the material is quenched rapidly after annealing to maintain an amorphous state. Slow cooling after annealing results in high crystallinity and low fracture toughness.
	Differential scanning calorimetry (DSC)	To determine the maximum enthalpy of cold crystallization (ΔH _{cc} *) of PLA polymer, which establishes an upper limit on the degree of crystallinity that can be induced using common heating and cooling mechanisms.	PLA filament (1.75 mm diameter) pelletized by manually cutting into 10 mm segments, fed into a twin-screw micro-compounding machine at 200 °C and 50 rpm for 10 minutes to create an amorphous melt, then quenched in an ice water bath.	The quenched amorphous PLA extrudate was dried and then subjected to a heat-cool-heat DSC cycle between 40-200 °C at 5 °C/min to measure the maximum enthalpy of cold crystallization.	The maximum enthalpy of cold crystallization (ΔH _{cc} *) for the fully amorphous PLA polymer was 21.7 J/g.	The maximum enthalpy of cold crystallization establishes an upper limit on the degree of crystallinity that can be induced in the PLA polymer using common heating and cooling mechanisms.

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- What potential does plastic waste conversion to value-added products hold for environmental sustainability?
- What factors influence the thermochemical conversion of plastic waste into valuable products?
- What are the environmental concerns associated with plastic waste mismanagement?

Actions you could take:

- Summarize this article
- Summarize experiments

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How can I test the effects of additive manufacturing on the structure, mechanical properties, and crystallinity of polymers?

The given query is not directly relevant to the content of the article, which focuses on the retrieval of plastic wastes for conversion to value-added petrochemicals. The article does not discuss the effects of additive manufacturing on polymer properties.

The article provides an overview of the following key points:

- Plastic production, sources, and processing methods [1](#) [2](#)
- Environmental challenges associated with plastic waste [3](#) [4](#)
- Technologies for converting plastic waste into petrochemicals, including pyrolysis, gasification, hydrothermal liquefaction, and catalytic conversion [5](#) [6](#)
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