


Search results - sheenf@gmail.com x Free Grammar Checker - QuillBot x Islamic University of Science and Technology x PEDOT and PEDOT:PSS conducting polymer hydrogels: A report on their emerging applications x (5) WhatsApp x journal of biomolecular structure x +

sciencedirect.com/science/article/abs/pii/S037967792100014X

2.2F: Visualizing TLC... AN OVERVIEW ON... New Tab PDFView PDF Citric acid crosslinker... (15) 4 Ion Exchange... (15) Ion Exchange C... (15) ION EXCHANG... e-PGPathshala e-PGPathshala Biopolymer and Hy... ph responsive >> All Bookmarks

 ScienceDirect Journals & Books Search ScienceDirect Register Sign in

Access through University of Delhi Purchase PDF Access through another institution

Article preview


Abstract

Introduction



Section snippets

References (202)

Cited by (38)

 **Synthetic Metals**
Volume 273, March 2021, 116709

PEDOT and PEDOT:PSS conducting polymeric hydrogels: A report on their emerging applications

Mushtaq A. Bhat, Revaz A. Rather, Aabid H. Shalla  

Show more

+ Add to Mendeley Share Cite

<https://doi.org/10.1016/j.synthmet.2021.116709> Get rights and content

Abstract

Conducting polymers (CP's) are currently being explored in areas like bio-interfaces, bioelectronics and medical purposes. Inclusion of moieties of CP's into hydrogels has received substantial traction in recent years due to their high conduction (both electrical and electrolyte phases), adjustable mechanical properties, swelling disposition and their tunable three dimensional (3D) matrix. As such conducting polymeric hydrogels (CPH's) have successfully emerged as potential candidates for medical therapies, medical and bioelectronics, environmental pollution treatments, energy storage and sensors. CPH's provide a better platform for envisaging innovative technologies including flexible electronic devices like supercapacitors due to the flexible nature of CPH's. Among large class of CP's poly(3,4-ethylenedioxythiophene) (PEDOT) has attracted huge interest in

Recommended articles

Highly conducting composite hydrogels from gellan gum, PEDOT:PSS and carbon...
Synthetic Metals, Volume 206, 2015, pp. 61-65
Holly Warren, Marc in het Panhuis

Long/Short chain Crosslinkers-optimized and PEDOT:PSS-enhanced covalent doubl...
European Polymer Journal, Volume 174, 2022, Article 1...
Daolian Zhu, ..., Jinfeng Xing

Free-standing PEDOT/polyaniline conductive polymer hydrogel for flexible...
Electrochimica Acta, Volume 322, 2019, Article 134769
Zhaokun Yang, ..., Mingqing Chen

Show 3 more articles

Article Metrics


Citations

Citation Indexes: 37


Captures

Readers: 103

View details

 FEEDBACK

Type here to search



8°C Sunny 01:01 PM 29-12-2023