

RESEARCH ARTICLE

# Development of a novel Cu (I) $\pi$ -complexation adsorbent for ultra-deep desulfurization from a carbon dioxide stream

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## Abstract

Desulfurization technology is rather difficult and urgently needed for carbon dioxide (CO<sub>2</sub>) utilization in industry. A new Cu(I)-based adsorbent was synthesized and examined for the capacity of removing carbonyl sulfide (COS) from a CO<sub>2</sub> stream in an effort to solve the competitive adsorption between CO<sub>2</sub> and COS and to seek opportunity to advance adsorption capacity. A wide range of characterization techniques were used to investigate the physicochemical properties of the synthesized Cu(I) adsorbent featuring  $\pi$ -complexation and their correlations with the adsorption performance. Meanwhile, the first principal calculation software CP2K was used to develop an understanding of the adsorption mechanism, which can offer useful guidance for the adsorbent regeneration. The synthesized Cu(I) adsorbent, prepared by using copper citrate and citric acid on the ZSM-5 (SiO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> = 25) carrier, outperformed other adsorbents with varying formulations and carriers in adsorption capacities. Through optimization of the preparation and adsorption conditions for various adsorbents, the breakthrough adsorption capacity ( $Q_b$ ) for COS was further enhanced from 2.19 mg/g to 15.36 mg/g. The formed stable  $\pi$ -complex bonds between COS and Cu(I), as confirmed by density functional theory calculations, were verified by the significant improvement in the adsorption capacity after regeneration at 600°C. The above advantages render the novel synthesized Cu(I) adsorbent a promising candidate featuring cost-effectiveness, high efficacy and good regenerability for desulfurization from a CO<sub>2</sub> stream.

## KEYWORDS

$\pi$ -complexed adsorption, carbonyl sulfide, CO<sub>2</sub> purification, Cu(I) adsorbent, desulfurization

## 1 | INTRODUCTION

As the major component of greenhouse gas, carbon dioxide (CO<sub>2</sub>) emissions are considered a primary contributor to the global climate change, which accounts for roughly 66% of the global warming caused by anthropogenic activities.<sup>[1]</sup>

The Paris Agreement was signed to commit to combat climate change through global efforts.<sup>[2]</sup> To limit or even reduce the CO<sub>2</sub> emissions, carbon capture, utilization, and storage (CCUS) technologies have been extensively studied and developed in the past decades to provide efficient and cost-effective solutions.<sup>[3,4]</sup> In the coal chemical industry, a

# Stream Of Consciousneb In Mordern Novel

**Jesse Matz**



## **Stream Of Consciousness In Modern Novel:**

**Stream of Consciousness in the Modern Novel** Robert Humphrey, 1954-01-01 Robert Humphrey seeks to provide a precise understanding of stream of consciousness in literature its purpose its techniques and its significance Through an examination of the work of James Joyce Virginia Woolf Dorothy Richardson William Faulkner and other contemporaries he points to the various means novelists have used to express the inchoate psychic life of their character He discusses at length the purpose and usefulness of free association the chief device for depicting and controlling both the movement and the privacy of consciousness His treatment of what he terms cinematic devices such as montage flash back fade out is particularly illuminating In his discussion of forms Mr Humphrey analyses the various structural patterns that stream of consciousness writers have used in lieu of conventional plots and shows how they have managed the unities of space and time This book makes challenging reading for the serious students of literature and should prove especially to writers Publisher

**Stream of Consciousness in the Modern Novel** Robert Humphrey, 2023-11-15 This title is part of UC Press's Voices Revived program which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 Voices Revived makes high quality peer reviewed scholarship accessible once again using print on demand technology This title was originally published in 1954

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jargon free introduction to the whole history of the novel in the twentieth century Examines the main strands of twentieth century fiction including post war post imperial and multicultural fiction the global novel the digital novel and the post realist novel Offers students ideas about how to read the modern novel how to enjoy its strange experiments and how to assess its value as well as suggesting ways to understand and appreciate the more difficult forms of modern fiction Pays attention both to the practice of novel writing and to theoretical debates among novelists Claims that the novel is as purposeful and relevant today as it was a hundred years ago Serves as an excellent springboard for classroom discussions of the nature and purpose of modern fiction

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contemporary literature Written by a team of renowned scholars Infinite Discussion offers a thorough and accessible analysis of the most important modernist novels From James Joyce s Ulysses to Virginia Woolf s To the Lighthouse from Marcel Proust s In Search of Lost Time to Franz Kafka s The Trial this book examines the works that defined the movement and shaped the course of 20th century literature Infinite Discussion not only provides close readings of individual novels but also explores the broader context of modernism Readers will gain insights into the historical social and cultural factors that gave rise to the movement as well as its impact on art music and film The book also examines the legacy of modernism tracing its influence on contemporary literature and culture With its engaging prose and clear explanations Infinite Discussion is an indispensable resource for students scholars and anyone interested in understanding the complexities of modernism This book offers a fresh perspective on the movement highlighting its enduring relevance and its profound impact on the way we think about literature and the world around us Whether you are a seasoned modernist or a newcomer to the movement Infinite Discussion is an essential guide that will deepen your understanding and appreciation of this transformative era in literary history If you like this book write a review **Virginia Woolf** Thomas Jackson Rice,2018-02-21 Originally published in 1984 Virginia Woolf Guide to Research is a bibliographic guide to the writings and critical reception of the works of Virginia Woolf The guide is a simply organized guide that makes easily accessible a diversified body of critical works on Virginia Woolf The scholarship is organised into key collections based around Woolf s major works of fiction and contains studies from a variety of content including periodicals articles book chapters as well as foreign language books

**Literature at the Barricades** Ralph F. Bogardus,Fred Hobson,1982-06-30 Chiefly essays presented at the Fifth Alabama Symposium on English and American Literature Tuscaloosa Ala Oct 19 21 1978 *Look Who's Laugh:Stud/Gender/C* Finney,2014-07-10 First Published in 1994 Routledge is an imprint of Taylor Francis an informa company **The Narrative Reader** Martin McQuillan,2000 The Narrative Reader aims to provide a comprehensive survey of narrative theories ranging from Plato to Post Structuralism The selection of texts is bold and broad demonstrating the extent to which narrative permeates the entire field of literature and culture It shows the ways in which narrative crosses disciplines continents and theoretical perspectives and is a long overdue and welcome addition to the field The Narrative Reader will fascinate students and researchers alike providing a much needed point of entry to the increasingly complex field of narrative theory

Stream Of Consciousness In Modern Novel: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Let's delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year.

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**Uncover the Best :** Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

**Stream Of Consciousness In Modern Novel :** Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

**The Secret History** is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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