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## Introduction

The accumulation of depleted uranium as a waste product from uranium enrichment encourages the development of research focused on uranium coordination chemistry.<sup>1–3</sup> Reported studies in this area provide insight into potential uses of depleted uranium and fundamental knowledge of uranium coordination chemistry involved in applications such as actinide separations in nuclear waste.<sup>4–8</sup> Within this context, there have been widespread reports of redox-active and redox-inactive ligands used to form complexes of U<sup>IV</sup>,<sup>9–14</sup> and one of those ligands, 2,2,2-cryptand, has been widely used to encapsulate metal ions, including U<sup>IV</sup>.<sup>15–19</sup> Further, the coordination chemistry of U<sup>IV</sup>, Np<sup>IV</sup>, and Pu<sup>IV</sup> with 2,2,2-cryptand has been reported recently,<sup>20</sup> expanding cryptand chemistry into the actinides. The thermodynamic and kinetic stability of a cryptate is governed by the cavity size and denticity of the coordinated cryptand as well as the ionic radii and oxidation state of the given metal ion.<sup>21–24</sup> For example, 2,2,1-cryptand fits better with Eu<sup>II</sup>, and 2,2,2-cryptand fits better with Eu<sup>II</sup>; moreover, the Gibbs free energy of Eu<sup>II</sup>(2,2,1-cryptand) is 1.8 times greater than that of Eu<sup>II</sup>(2,2,2-cryptand), and the dissociation constant of Eu<sup>II</sup>(2,2,1-cryptand) is  $2.7 \times 10^7$  times smaller than that of Eu<sup>II</sup>(2,2,2-cryptand).<sup>21</sup> Because the size of U<sup>IV</sup> (1.025 Å) is closer to the size of Eu<sup>II</sup> (0.947 Å)

than Eu<sup>II</sup> (1.17 Å)<sup>22</sup> and the charge density of U<sup>IV</sup> is closer to Eu<sup>II</sup> than Eu<sup>III</sup>, we suspected that 2,2,1-cryptand would be a good ligand for U<sup>IV</sup>. Additional support for this suspicion is in our recent report that the flexible counterpart of 2,2,2-cryptand, tris[2-(2-methoxyethoxy)ethyl]amine (TMA-1), forms U<sup>IV</sup>-containing complexes with smaller coordination numbers (nine) compared to all reported 2,2,2-cryptates (with coordination numbers of ten).<sup>22</sup> This report of an acyclic ligand implies that trivalent uranium can be encapsulated by cryptands with smaller denticities than that of 2,2,2-cryptand. Therefore, based on the studies of Eu<sup>II</sup> cryptand chemistry and U<sup>IV</sup> chemistry with acyclic TDA-1, we hypothesized that 2,2,1-cryptand is a better match for U<sup>IV</sup> than 2,2,2-cryptand. Here, we report U<sup>IV</sup>-containing cryptates of 2,2,2- and 2,2,1-cryptand (Fig. 1) to investigate how ligand denticity affects the structural, spectroscopic, and electrochemical properties of U<sup>IV</sup>.

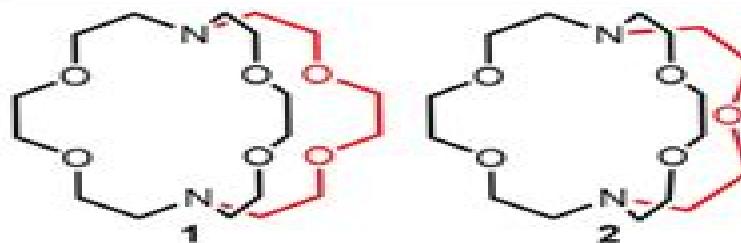


Fig. 1 2,2,2-Cryptand, **1**, and 2,2,1-cryptand, **2**, that were studied with U<sup>IV</sup>. The red color highlights the difference between the two ligands.

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<sup>‡</sup>Electronic supplementary information (ESI) available: Crystallographic data, SHAPe analysis, cyclic voltammetry, and electronic absorption spectroscopy. CCDC 2244963–2244967. For ESI and crystallographic data in CIF or other electronic formats see DOI: <https://doi.org/10.1039/d4dt00521j>



# Spectroscopic Properties Of Uranium Comp

**Chao Zhang**

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## **Spectroscopic Properties Of Uranium Comp** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Spectroscopic Properties Of Uranium Comp**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web oct 8 2023 schritt für schritt mit youtube geld verdienen in dieser vollständigen schritt für schritt anleitung gehen wir auf folgende themen genauestens ein wie du einen starken kanal bei youtube aufbaust wie du zuschauer auf youtube anlockst und schließlich wie du mit youtube geld verdienst

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web oct 20 2022 der erste schritt um geld mit seinen youtube klicks zu verdienen ist die aufnahme im partnerprogramm von youtube nach deiner aufnahme kannst du werbung in deinen videos schalten eine feste zahl für die benötigte anzahl an klicks lässt sich deshalb schwer festlegen

*wie verdient man geld mit youtube videos neil patel* - Nov 12 2022

web der erste schritt ist die teilnahme am youtube partnerprogramm ypp mit dem partnerprogramm erhalten creator zugriff auf zusätzliche youtube ressourcen und funktionen du musst jedoch bestimmte mindestanforderungen erfüllen und diese auch aufrechterhalten um dich zu qualifizieren

cashtube masterclass wie du mit youtube geld verdienst - Sep 10 2022

web cashtube masterclass wie du mit youtube geld verdienst dieser ultimative youtube kurs hilft dir dabei erfolgreich einen youtube kanal aufzubauen der dir ein dauerhaftes monatliches nebeneinkommen einbringt youtube bietet genauso viele chancen wie es auch gefahren gibt sich zu verzetteln

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web aug 31 2023 denn ja geld verdienen mit youtube ist auch 2023 noch sehr gut möglich wir wollen dir schon zu beginn verraten welche fragen wir in diesem artikel beantworten und wie genau du mit youtube geld verdienen kannst wie groß ist die konkurrenz auf youtube kann ich als influencer geld mit youtube verdienen welche

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web aug 29 2023 wie kann man mit youtube schauen geld verdienen die bisherigen tipps und möglichkeiten mit youtube geld zu verdienen bezogen sich allein auf content creator innen und die monetarisierung des eigenen kanals es ist allerdings auch möglich geld mit dem schauen von videos zu verdienen

## **so verdienst du geld auf youtube mit werbung eine schritt für schritt** - Apr 05 2022

web oct 6 2023 verdiene geld mit youtube wie du einnahmen erzielst deine community aufbaust verdienen mit youtube kann ziemlich lukrativ sein wenn man die richtigen maßnahmen ergreift du musst allerdings bestimmte voraussetzungen erfüllen um geld über youtube zu verdienen dazu gehört auch dass du dich für das youtube

## **mit youtube geld verdienen die 13 besten tipps** - Feb 15 2023

web apr 19 2021 das sind die nötigen schritte um mit adsense und youtube videos geld zu verdienen einen youtube kanal ohne adsense monetarisieren was spricht für eine adsense alternative

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web geld im internet mit youtube shorts ist möglich mit dieser schritt für schritt anleitung zum online geld verdienen leg los als kompletter anfänger ohne ei

## **so kannst du auf youtube geld verdienen youtube hilfe google** - Dec 13 2022

web du hast auf youtube die möglichkeit einnahmen zu erzielen wenn du dich für das youtube partnerprogramm bewirbst und zugelassen wirst nur kanäle die den richtlinien für die

## **wie du mit youtube geld verdienen kannst der ultimative** - Jul 08 2022

web oct 20 2023 um mit youtube geld zu verdienen musst du zunächst ein youtube konto erstellen anschließend musst du videoinhalte erstellen die deine zuschauer ansprechen sobald du das gemacht hast kannst du deine videos auf youtube hochladen und sie monetarisieren um geld zu verdienen

## **mit youtube geld verdienen tipps und strategien für 2023 - Mar 16 2023**

web nov 18 2023 mit youtube geld zu verdienen ist auf verschiedene arten möglich zum beispiel durch werbeeinnahmen produktplatzierungen und affiliate links je mehr aktive abonnenten du hast und je länger deine videos angeschaut werden desto mehr geld kannst du verdienen

## **wie du mit youtube geld verdienen kannst die ultimative** - Oct 23 2023

web apr 3 2023 schritt 1 erstelle einen youtube kanal der erste schritt ist simpel erstelle einen eigenen youtube kanal dafür benötigst du lediglich einen google account Überlege dir welche art von inhalten du teilen möchtest und erstelle ansprechende thumbnails und titel für deine videos schritt 2 veröffentliche regelmäßig qualitativ mit youtube geld verdienen anleitung praxis tipps - Apr 17 2023

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