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Polyoxometalates (POMs) form a large, distinctive class of molecular inorganic compounds of unrivaled electronic versatility and

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structural variation,

with impacts ranging

from chemistry,

catalysis, and materials

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covers the basic

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series (NAII, volume  
98) Abstract The  
polyoxometalates are  
intermediate species  
between the  
mononuclear

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oxo/hydroxometalates  
[MO<sub>x</sub>(OH)<sub>y</sub>]<sub>n</sub><sup>-</sup> and  
polymeric metallic  
oxides and are usually  
known with transition  
metals in a high  
oxidation state.

## **General Principles of The Synthesis of Polyoxometalates in**

...

The top-down  
fabrication of  
catalytically active  
molecular metal oxide  
anions, or

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polyoxometalates, is virtually unexplored, although these materials offer unique possibilities, for catalysis, energy conversion and storage.

## **Top-down synthesis of polyoxometalate- like sub-nanometer**

...

A serial of CdS/POM  
(POM denotes  
polyoxometalate:  
P2MoxW18-x, x = 3, 9,

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15) nanospheres were fabricated through electrostatic self-assembly method. Fo...

**Fabrication of CdS/P2MoxW18-x nanospheres with type II ...**

Abstract  $\alpha$ -Glucosidase is an important target enzyme for the treatment of type 2 diabetes in humans. In our previous studies, it was found that polyoxometalates

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exhibited an effective inhibitory effect on the activity of  $\alpha$ -glucosidase, while polyoxometalates have the characteristics of structural diversity and unique properties.

## **Molecular docking of polyoxometalates as potential $\alpha$ ...**

Abstract Two

Anderson-type

polyoxomolybdates [Fe

Mo<sub>6</sub>O<sub>18</sub>{(OCH<sub>2</sub>)<sub>3</sub>CNH

CO(4-C<sub>5</sub>H<sub>4</sub>N)}<sub>2</sub>]<sub>3</sub><sup>-</sup> and

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[MnMo<sub>6</sub>O<sub>18</sub>{(OCH<sub>2</sub>)<sub>3</sub>C  
NHCO(4-C<sub>5</sub>H<sub>4</sub>N)}<sub>2</sub>]<sub>3</sub>-

and two Lindqvist-type

...

**Hybrid**

**Organic-Inorganic P  
orphyrin-Polyoxome  
talate Complexes**

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(POMs) form a large,

distinctive class of

molecular inorganic

compounds of

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versatility and

structural variation,



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(2001 : Tenerife,  
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Polyoxometalates (POMs) can both store and release multiple electrons in the electrochemical process, and this is expected to be an ideal “electron switch” to match with catalytically active species, realize electron transfer modulation and promote the activity and selectivity of the electrocatalytic CO 2

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**Polyoxometalate-  
based electron  
transfer modulation  
for ...**

For example, their tunable molecular architecture, charge density, strong redox capability, electro- and photochemical properties, make that these molecular metal-oxide nano-clusters are increasingly applied in diverse fields, such as

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medicine , magnetism ,

electronics , electro-

and photochromic  
systems , and catalysis

.

**Controlling the  
dispersion of  
supported**

**polyoxometalate ...**

Molecular modelling by

Polarz et al. show that

the DODA-POM hybrids

consist of defined

units, in which the

cationic surfactant has

all protons replaced

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and is strongly attached to the POM cluster. However, a close examination of our AFM images shows that the nanorods are indeed formed on an already well-organised underlying layer ( Fig. 4 ).

## **Controlling the dispersion of supported polyoxometalate ...**

Investigation on fluorescence properties

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of ultrafine PVA fiber mats-contained polyoxometalate with different molecular structure. Yongling Sun. Key Laboratory of Polyoxometalates Science of Ministry of Education, Northeast Normal University, Changchun 130024, People's Republic of China.

**Investigation on  
fluorescence  
properties of**

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