Electronic Supplementary Material (ESI) for Dalton Transactions. This journal is © The Royal Society of Chemistry 2015

1	Electronic supplementary information (ESI)					
2	Graphene Oxide Coated Coordination Polymer Nanobelt Composite					
3	Material: a New Kind of Visible Light Active and High Efficient					
4	Photocatalyst for Cr (VI) Reduction					
5	Gui-Mei Shi,* ^a Bin Zhang, ^a Xin-Xin Xu,* ^b and Fu-Yang Hong ^a					
6	^a College of Science, Shenyang University of Technology, No.111, Shenliao West					
7	Road, Economic & Technological Development Zone, Shenyang, 110870, P. R. China					
8	^b Department of Chemistry, College of Science, Northeast University, Shenyang,					
9	Liaoning, 110819, People's Republic of China					
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

	CP
Empirical formula	$C_{30}H_{22}N_4O_4Zn$
Formula weight	567.89
Crystal system	Monoclinic
Space group	<i>C</i> 2/c
a/Å	15.1755(11)
b/Å	22.2665(17)
$c/\mathrm{\AA}$	8.1466(6)
$\alpha/^{o}$	90
β /°	110.2820(10)
$\gamma/^{\mathbf{o}}$	90
$V/Å^3$	2582.1(3)
Z	4
F (000)	1168
Reflections collected	7561
Reflections unique	2270
R (int)	0.0304
Goodness-of-fit on F ²	1.118
$R_1 \left[I > 2\sigma(I) \right]$	0.0634
$wR_2 \left[I > 2\sigma(I) \right]$	0.1857
R_I (all data)	0.0758
wR_2 (all data)	0.1985

1 Table S1 Crystal data and structure refinement results for CP

2 Note. $R_1 = \Sigma ||F_0| - |F_c|| / \Sigma |F_0|$; $wR_2 = \Sigma [w(F_0^2 - F_c^2)^2] / \Sigma [w(F_0^2)^2]^{1/2}$

3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

Bond Lengths							
Zn(1)-O(1)	2.095(4)	Zn(1)-O(1)#1	2.095(4)				
Zn(1)-O(2)	2.203(4)	Zn(1)-O(2)#1	2.203(4)				
Zn(1)-N(1)	2.102(4)	Zn(1)-N(1)#1	2.102(4)				
Bond Angles							
O(1)#1-Zn(1)-O(1)	146.2(2)	O(1)#1-Zn(1)-N(1)#1	109.73(15)				
O(1)-Zn(1)-N(1)#1	96.63(17)	O(1)#1-Zn(1)-N(1)	96.63(17)				
O(1)-Zn(1)-N(1)	109.73(15)	N(1)#1-Zn(1)-N(1)	77.7(2)				
O(1)#1-Zn(1)-O(2)#1	60.10(19)	O(1)-Zn(1)-O(2)#1	99.18(18)				
N(1)#1-Zn(1)-O(2)#1	92.27(16)	N(1)-Zn(1)-O(2)#1	150.20(17)				
O(1)#1-Zn(1)-O(2)	99.18(18)	O(1)-Zn(1)-O(2)	60.10(19)				
N(1)#1-Zn(1)-O(2)	150.20(17)	N(1)- $Zn(1)$ - $O(2)$	92.27(16)				
O(2)#1-Zn(1)-O(2)	108.7(2)						

1 Table S2 Selected bond lengths (Å) and angles (°) for CP

2 Symmetry transformations used to generate equivalent atoms for CP: #1 -x+1, y, -





Figure S2 (a) C1s of GO(A); (b) C1s of GO(B); (c) C1s of GO(C); (d) C1s of
GO(D); (e) O1s of GO(A); (f) O1s of GO(B); (g) O1s of GO(C); (h) O1s of GO(D);
(i) XPS survey of GO(A); (g) XPS survey of GO(B); (k) XPS survey of GO(C); (l)
XPS survey of GO(D).











4 PXRD patterns of GO; (d) FTIR of CPNB and GO/CPNB; (e) Enlarged FTIR of

```
5 CPNB and GO/CPNB; (f) FTIR of GO.
```







