



# 化学进展 Progress in Chemistry

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金属有机框架材料在CO<sub>2</sub>化学固定中的应用

循环肿瘤DNA的检测：从数字化到测序

光化学反应在生物材料表面修饰中的应用

主 管：中国科学院  
主 办：中国科学院基础科学局  
中国科学院化学部  
中国科学院文献情报中心  
国家自然科学基金委员会化学科学部

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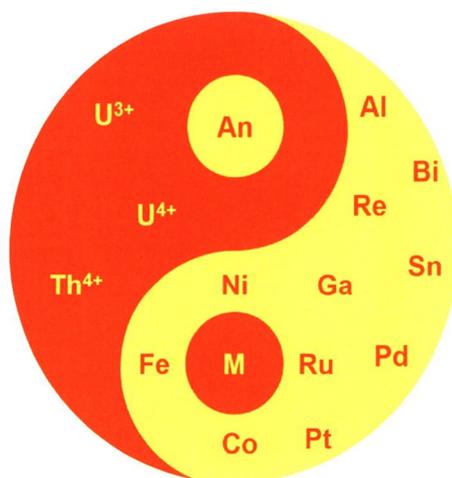
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## Actinide-Heterobimetal Compounds

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*Progress in Chemistry*, 2019, 31(10): 1341~1349

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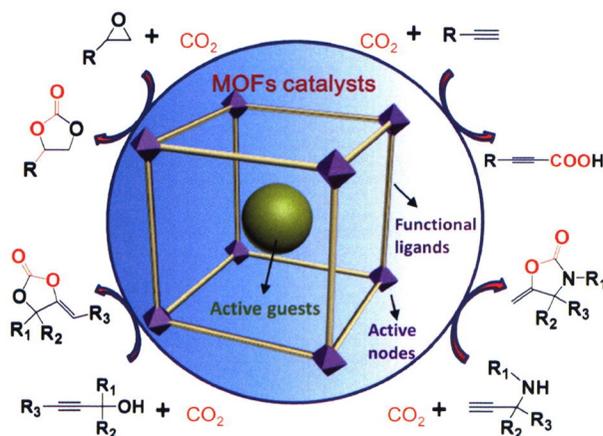


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*Progress in Chemistry*, 2019, 31(10): 1350~1361

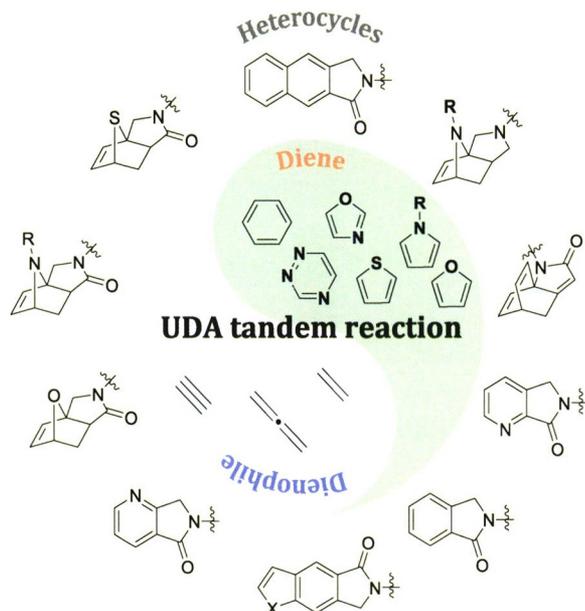
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### Structures, Properties, and Applications of Metalloregulatory Proteins

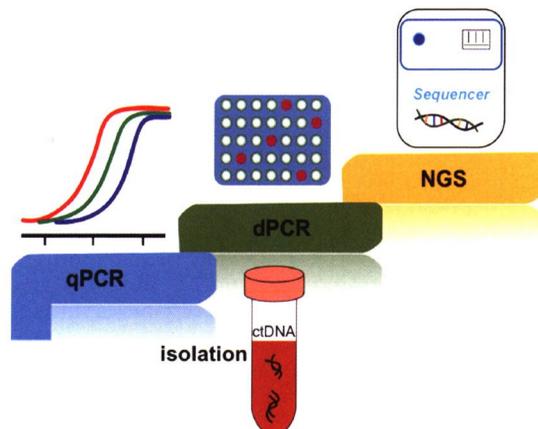
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 DOI:10.7536/PC190310

Name	Mode of action	Family member	Metals sensed	Representative member structure
<b>Fur</b>	Fe binds to Fur, which then binds to the ON NDA sequence on DNA.	Zur, Mur, Nur	Fe, Zn, Mn, Ni	Zur
<b>DtxR</b>	Fe binds to DtxR, which then binds to the ON NDA sequence on DNA.	IdeR, MntR, ScaR, SifR, TroR	Fe, Mn, Cd, Zn	MntR
<b>NikR</b>	Ni binds to NikR, which then binds to the ON NDA sequence on DNA.	None	Ni	NikR
<b>MerR</b>	Hg binds to MerR, which then binds to the twisted DNA sequence.	ZnR, CadR, PbrR, CueR, Gols, CoaR	Hg, Zn, Cd, Pb, Cu, Au, Ag, Co	MerR
<b>ArsR/ SmtB</b>	Zn binds to ArsR/SmtB, which then binds to the OH DNA sequence.	CadC, AztR, ZlaR, CmtR, CzrA, NmtR, KmtR, BxmR	As, Sb, Bi, Zn, Cd, Pb, Co, Ni, Cu, Ag	CadC
<b>CsoR/ RcnR</b>	Cu binds to CsoR/RcnR, which then binds to the OH DNA sequence.	None	Cu, Ni, Co	CsoR
<b>CopY</b>	Cu binds to CopY, which then binds to the OH DNA sequence.	None	Cu	None

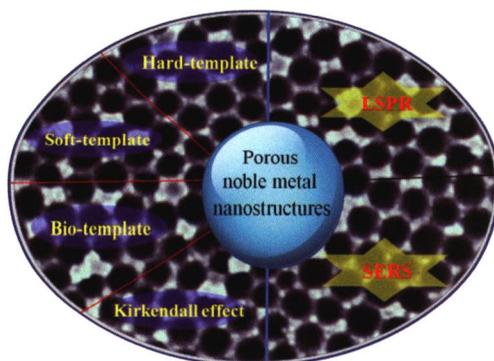
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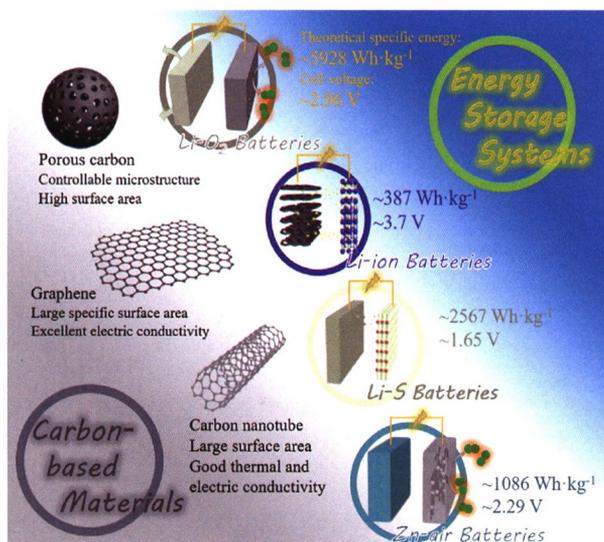
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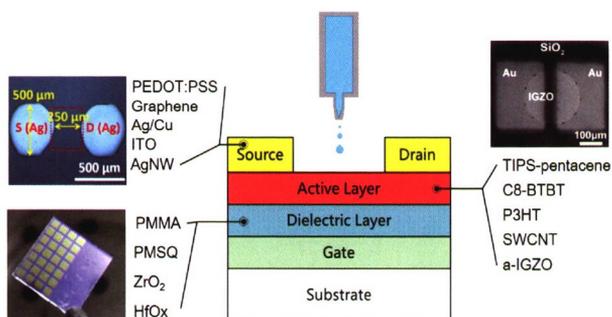


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*Progress in Chemistry*, 2019, 31(10): 1417~1424

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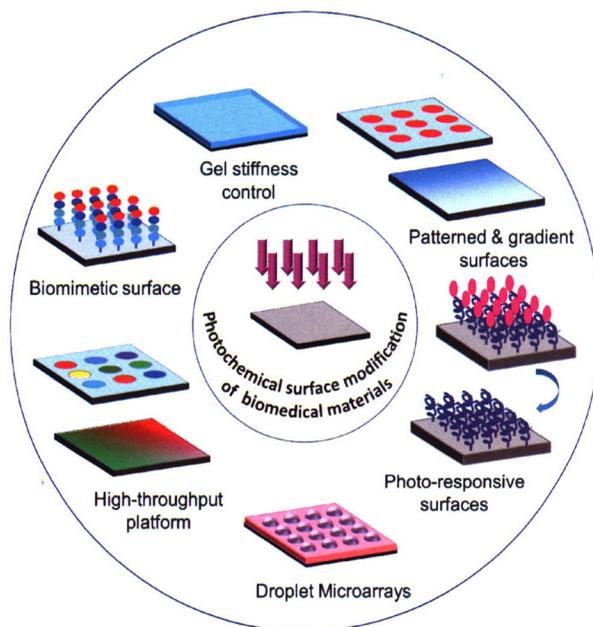
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*Progress in Chemistry, 2019, 31(10): 1440~1458*

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# Progress in Chemistry

地 址: 100190 北京中关村北四环西路 33 号

电话 / 传真: 010-82627757

E-mail: [scinfo@mail.las.ac.cn](mailto:scinfo@mail.las.ac.cn)

网 址: <http://www.progchem.ac.cn>



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