

車輛工程系
Department of Vehicle
Engineering

低碳能源材料
Low Carbon Energy
Materials

綠色能源理論計算研究室
Lab. for Theoretical Calculation of
Green Energy Reaction



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#3612

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研究領域

第一原理理論計算、能源反應、能源材料、先進光譜分析、充放電技術、電化學電池

近期研究主題

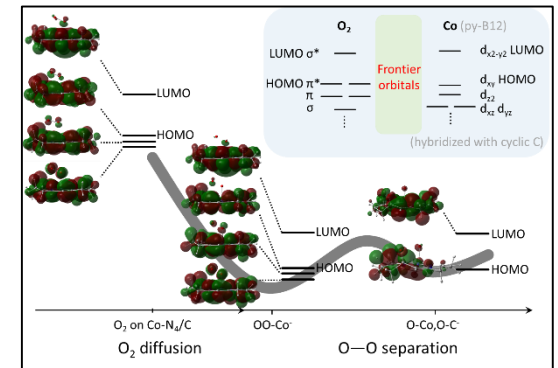
- 新能源材料
- 二維材料能源應用
- 鋰電池充放電化學
- X光、IR、Raman等光譜分析
- 低碳產能反應
- 石墨烯複合材料
- 金屬空氣電池

Research Area

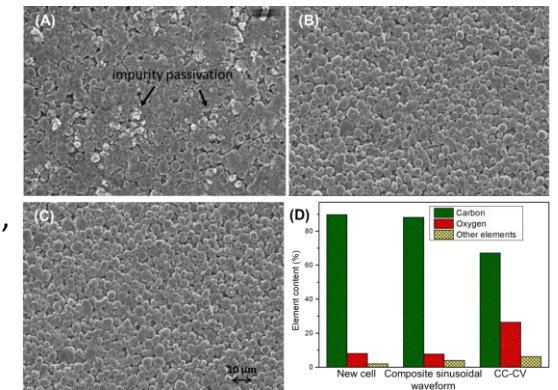
First-principle calculation, green energy reaction, energy material, advanced spectral analysis, charge- discharge technology, electrochemical battery

Recent Topics

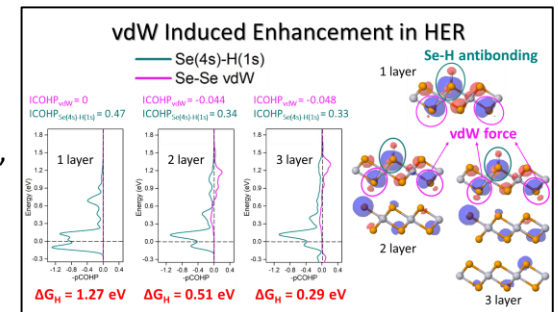
- New energy material
- 2D material for energy application
- Charge-discharge chemistry of Li battery
- Analysis of X-ray absorption, IR, Raman spectroscopy, etc.
- Chemical reaction for low carbon emission
- Graphene composite
- Metal-air battery



新穎材料綠色能源反應
New material for green energy application



鋰電池充放電化學
Charge-discharge chemistry



二維能源材料反應活性
Chemical activity of 2D material