# Article information:

Electrifying Adipic Acid Production: Copper-Promoted Oxidation and C-C Cleavage of Cyclohexanol - PubMed
<https://pubmed.ncbi.nlm.nih.gov/36261886/>

# Article summary:

1. 通过电催化技术生产己二酸比热化学合成路线更加可持续。

2. 将Cu2+引入Ni羟化物晶格中，可以显著提高环己醇氧化为己二酸的电催化效率和选择性。

3. Cu2+的作用是削弱NiOOH和表面吸附的O中心自由基之间的相互作用，从而促进后续C-C断裂反应。

# Article rating:

May be slightly imbalanced: The article presents the information in a generally reliable way, but there are minor points of consideration that could be explored further or claims that are not fully backed by appropriate evidence. Some perspectives may also be omitted, and you are encouraged to use the research topics section to explore the topic further.

# Article analysis:

作为一篇科学研究论文，该文章并没有明显的偏见或宣传内容。然而，需要注意的是，该研究只考虑了电化学合成脂肪二酸的可行性和效率，并未探讨其可能的环境和社会风险。此外，该研究也没有考虑到其他可能的生产方法和替代品，因此在推广应用时需要谨慎权衡各种因素。

# Topics for further research:

* Environmental risks of electrochemical synthesis of fatty acids
* Social implications of electrochemical synthesis of fatty acids
* Alternative methods for producing fatty acids
* Substitutes for fatty acids in various applications
* Sustainability of electrochemical synthesis of fatty acids
* Ethical considerations of using electrochemical synthesis of fatty acids

# Report location:

<https://www.fullpicture.app/item/22a3a64d8a21d82e872e85a95131816d>