

Electron microscopy 2022

Q1: Can backscattered electrons generate the same levels of resolution as secondary electrons? Why?

Q2: What limits the resolution in TEM?

Q3: What limits the resolution in SEM?

Q4: If a sample is charging during SEM imaging, what are the different things can you do to solve this?

Q5: Is the resolution of EDX higher or lower than that of an SE image? Why?

Q6: Why do people often increase acceleration voltage to obtain better resolution in SEM? Is any negative effect of increasing acceleration voltage on SEM imaging?