

## **Enhanced Thermoelectric Performance of hot-pressed n-type Ag<sub>2</sub>Se nanostructures via controlling the intrinsic lattice defects**

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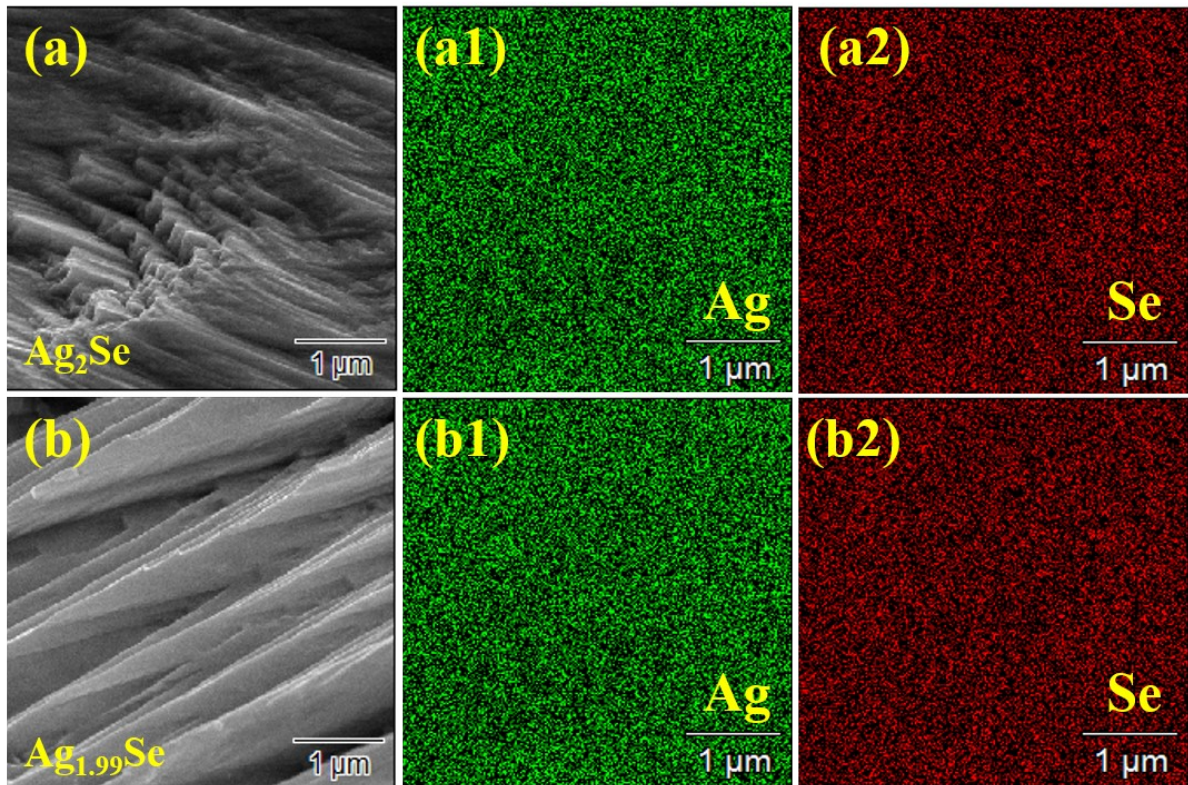
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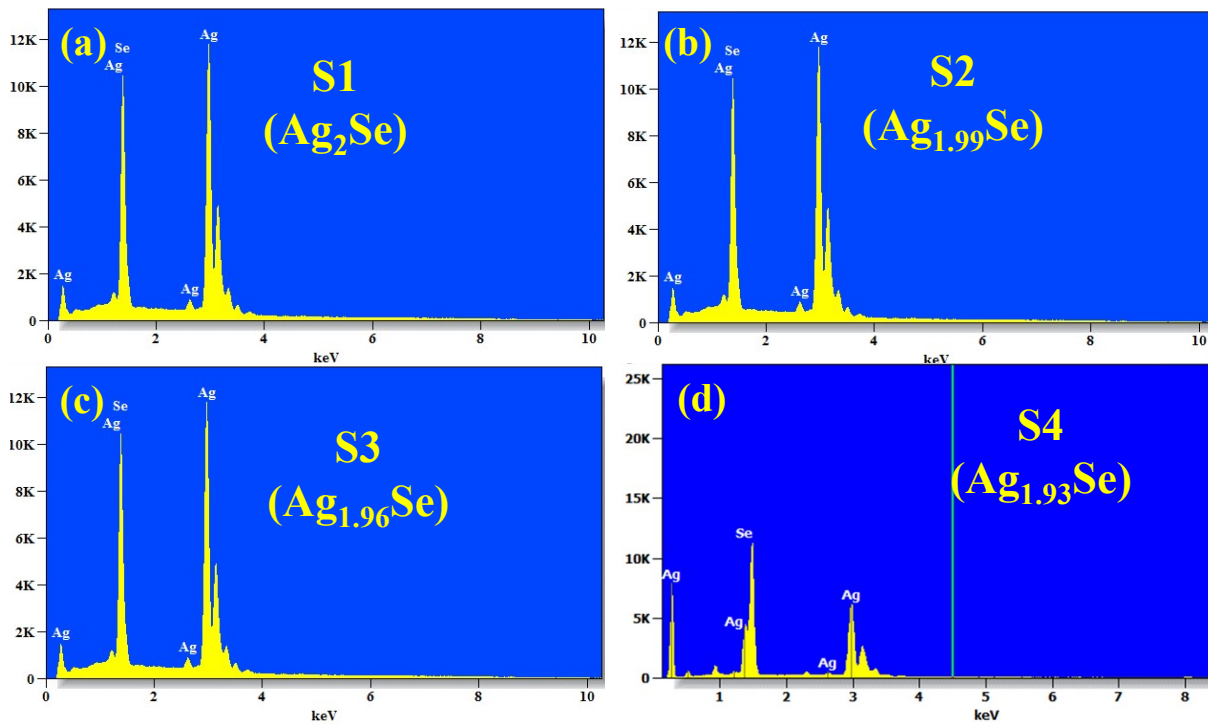
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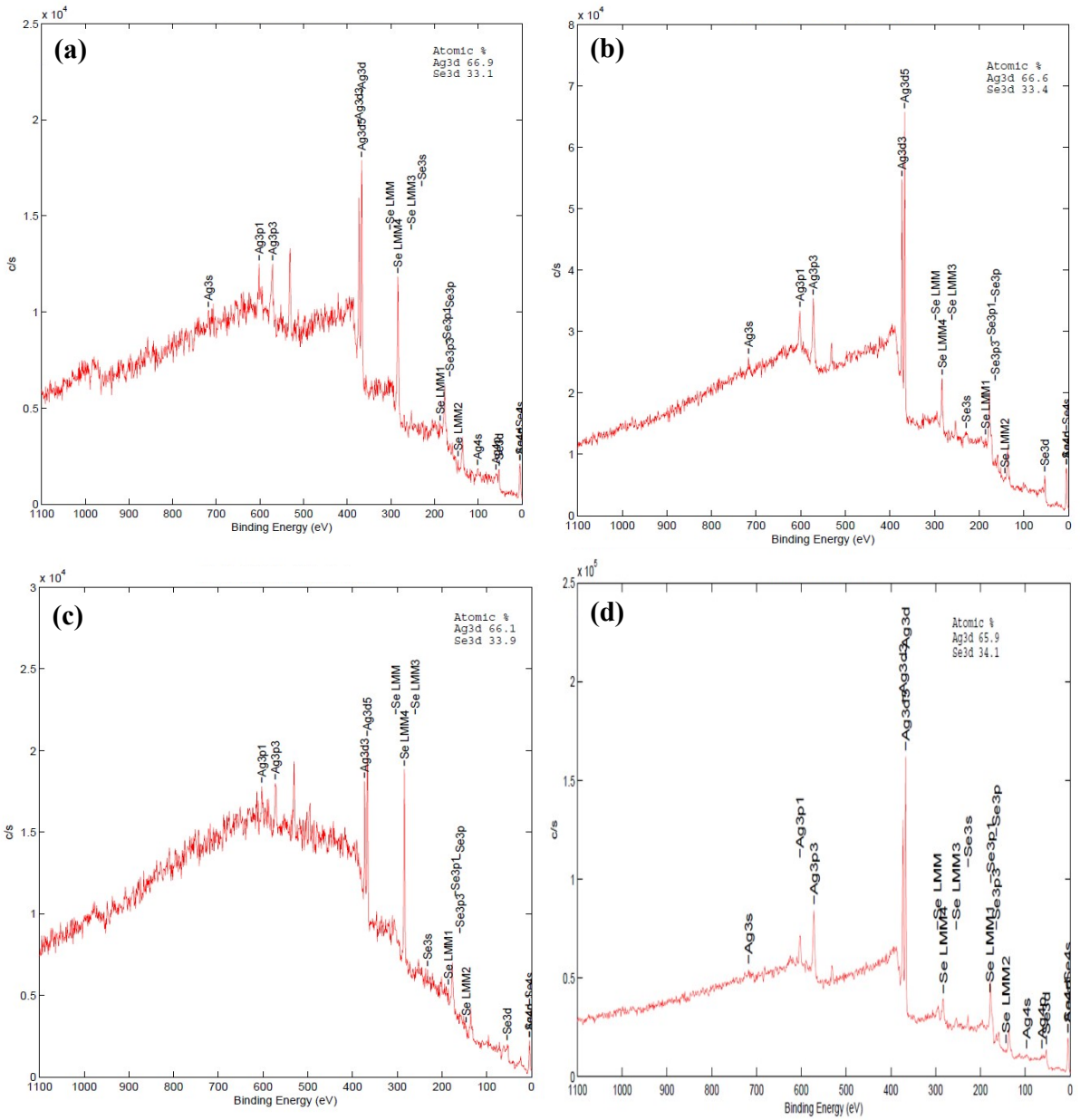
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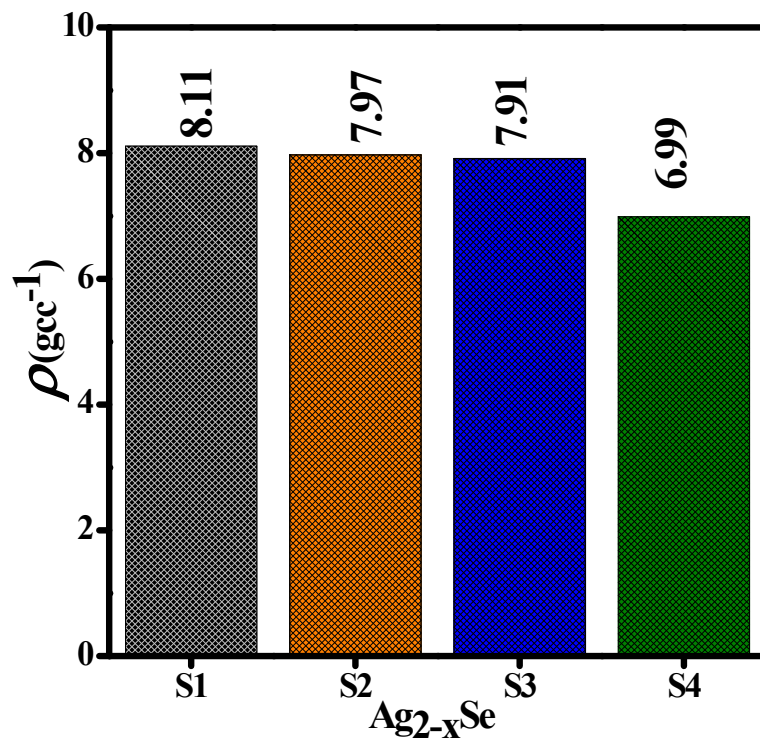
**Figure.1.** FESEM Mapping images of pristine  $\text{Ag}_2\text{Se}$  and  $\text{Ag}_{1.99}\text{Se}$ .



**Figure.2.** EDS spectra of pristine  $\text{Ag}_2\text{Se}$ ,  $\text{Ag}_{1.99}\text{Se}$ ,  $\text{Ag}_{1.96}\text{Se}$  and  $\text{Ag}_{1.93}\text{Se}$  samples.



**Figure.3.** Survey spectrum Ag<sub>2</sub>Se (S1), Ag<sub>1.99</sub>Se (S1), Ag<sub>1.96</sub>Se (S1) and Ag<sub>1.93</sub>Se (S1) nanostructures



**Figure.4.** Schematic representation of Ag<sub>2-x</sub>Se nanostructures