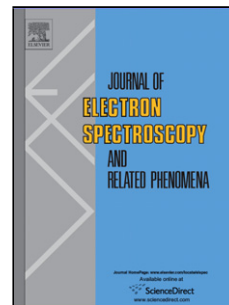


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**Spectroscopic study of copper adsorption by chitosan and lignin composites containing layered double hydroxides**

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