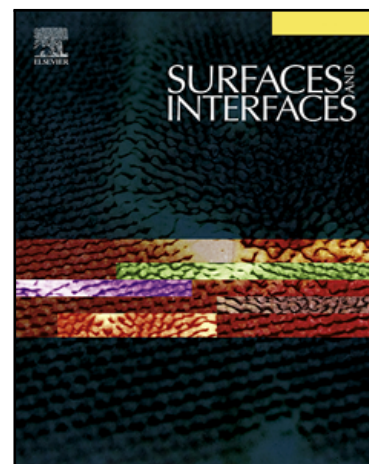


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High-entropy alloy coatings with excellent mechanical, corrosion resistance and magnetic properties prepared by mechanical alloying and hot pressing sintering



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Highlights

- CoCrFeNi(Cu) HEA coatings were prepared by MA and vacuum hot consolidation.
- Cu addition induces duplex FCC solid solution phases for CoCrFeNiCu coating.
- CoCrFeNi(Cu) HEA coatings exhibit good adhesion to Q235 substrate.
- Uniform distribution of elements in CoCrFeNi coating causes good properties.
- CoCrFeNi HEA coating has good soft magnetism but paramagnetism for Cu addition.

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