# Supplementary Materials for Metallic Glue for Designing Composite Materials with Tailorable Properties

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- Table S1 Compressive strength and strain of composites under different mass ratios.

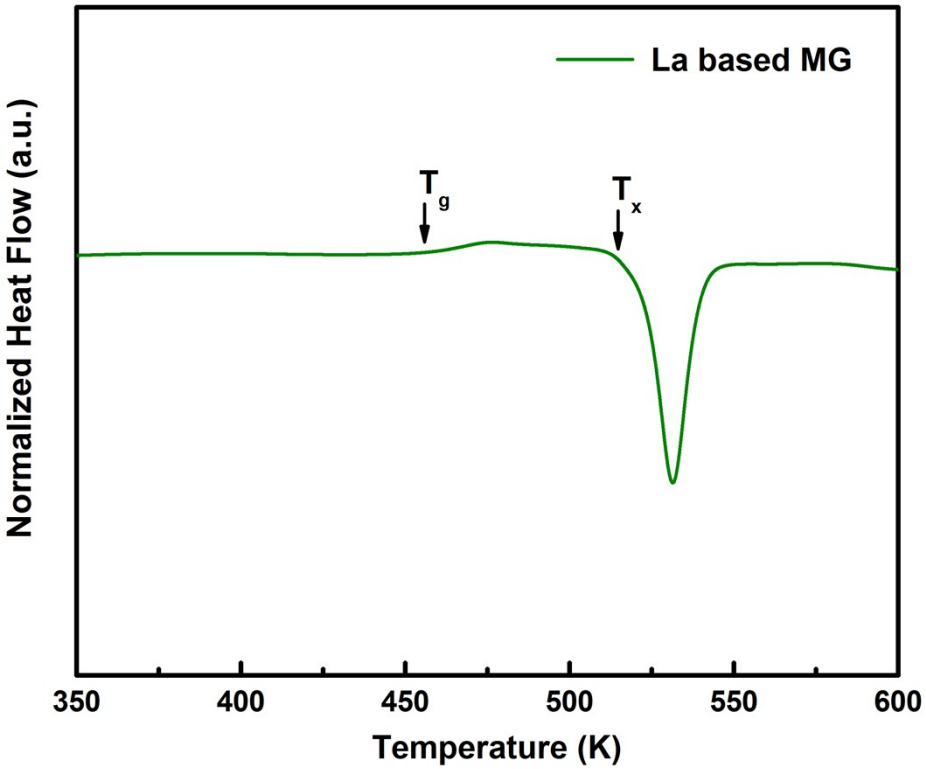


**Fig. S1.The DSC curve of the La-based MG.**

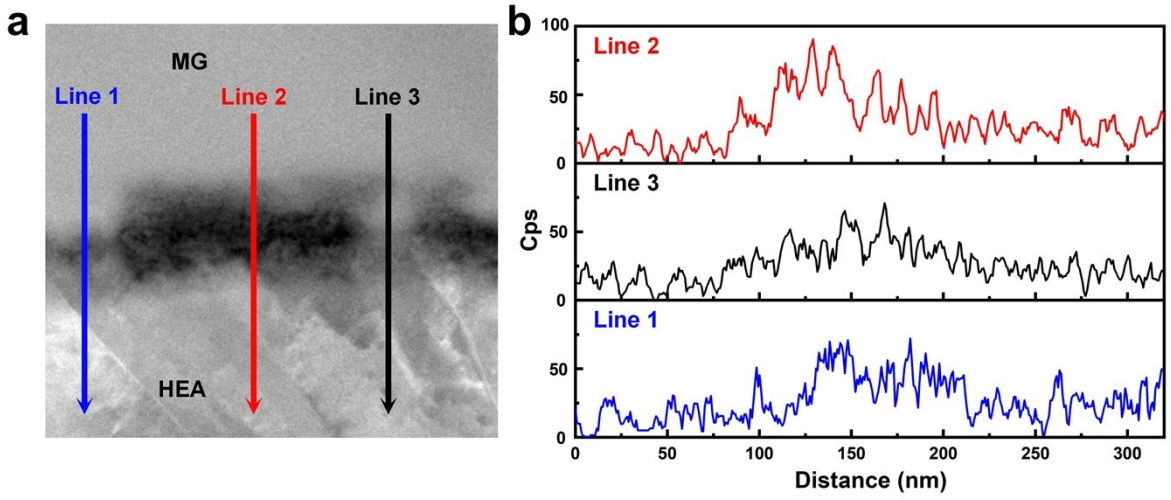


**Fig. S2. (a)** The crack of oxidation layer at the interface between MG and HEA. **(b)** Change of oxygen content in EDS line scanning of line 1, 2, 3.

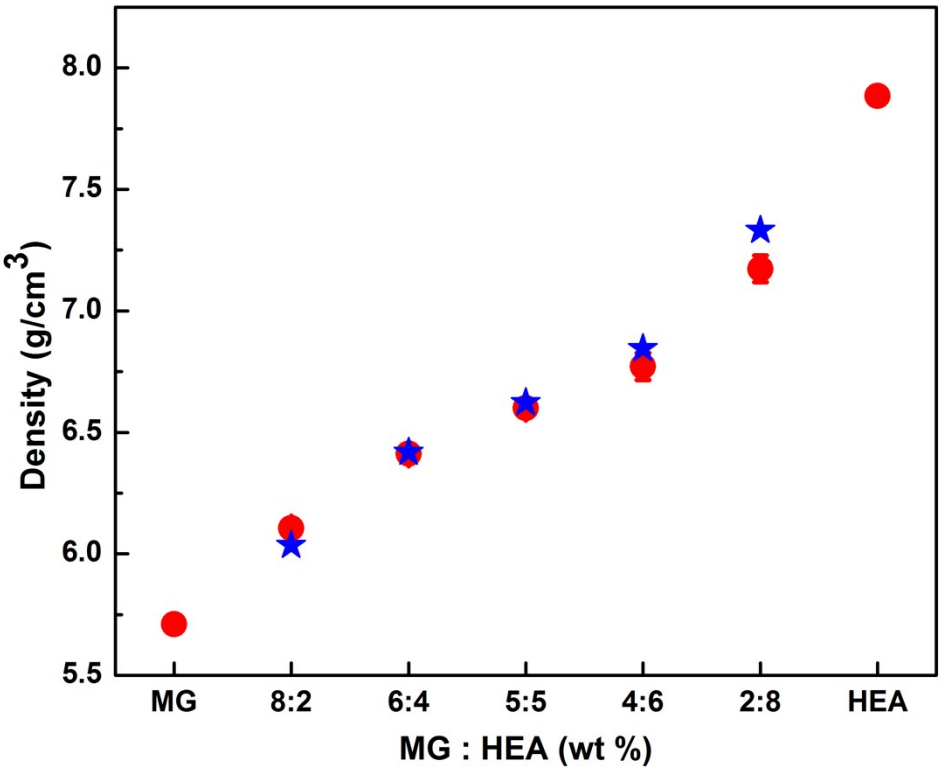


**Fig. S3. The actual densities and theoretical densities of the composites (MG: HEA (wt%) is 2:8,4:6,5:5,6:4,8:2).**

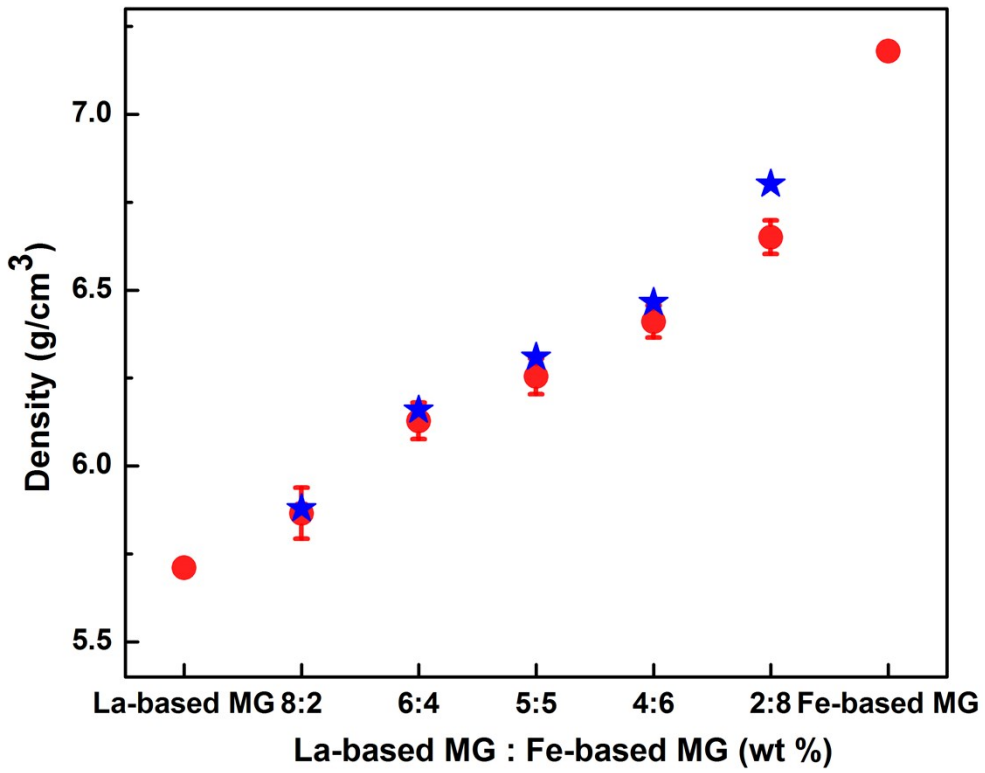


**Fig. S4. The actual densities and theoretical densities of the composites (La-based MG:Fe-based MG (wt%) is 8:2,6:4,5:5,4:6,2:8).**

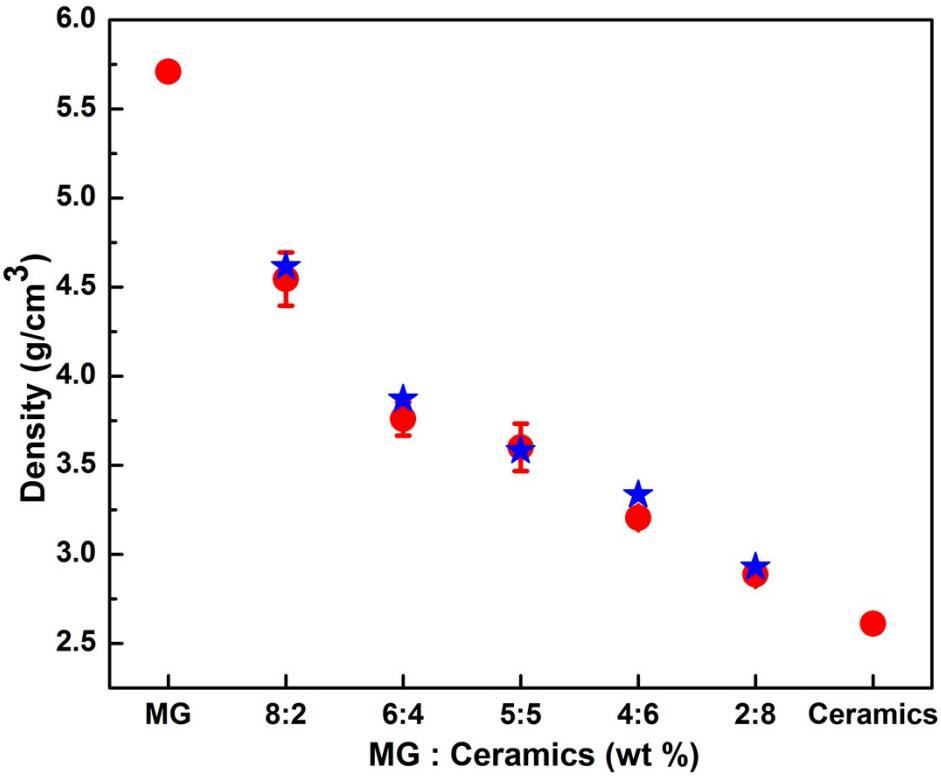


**Fig. S5. The actual densities and theoretical densities of the composites (MG:Ceramics (wt%) is 8:2,6:4,5:5,4:6,2:8).**

**Table. S1 Compressive strength and strain of composites under different mass ratios.**

| MG:HEA (wt%) | Compressive Strength | Strain |
|---|---|---|
| 8:2 | 470 MPa | 4 % |
| 6:4 | 385 MPa | 5 % |
| 5:5 | 387 MPa | 8.5 % |
| 4:6 | 315 MPa | 5.5 % |
| 2:8 | 261 MPa | 5.8 % |