

# Empa at Innovate Mobility Infrastructure



## Presented research:

- 4D printing of recoverable buckling-induced architected iron-based shape memory alloys  
<https://doi.org/10.1016/j.matdes.2023.112216>
- Load Bearing Stay-in-Place 3D Printed Concrete Formwork  
To be published later this year by Mahsa Sakha and Saim Raza
- Development of hybrid FRP/steel freight bogie:  
Phase I: <https://www.aramis.admin.ch/Texte/?ProjectID=49291>  
Phase II: to be published later this year
- Extending life time of bridges:  
<http://dx.doi.org/10.2139/ssrn.5375824> (preprint article)  
<https://doi.org/10.1016/j.engstruct.2021.112467>