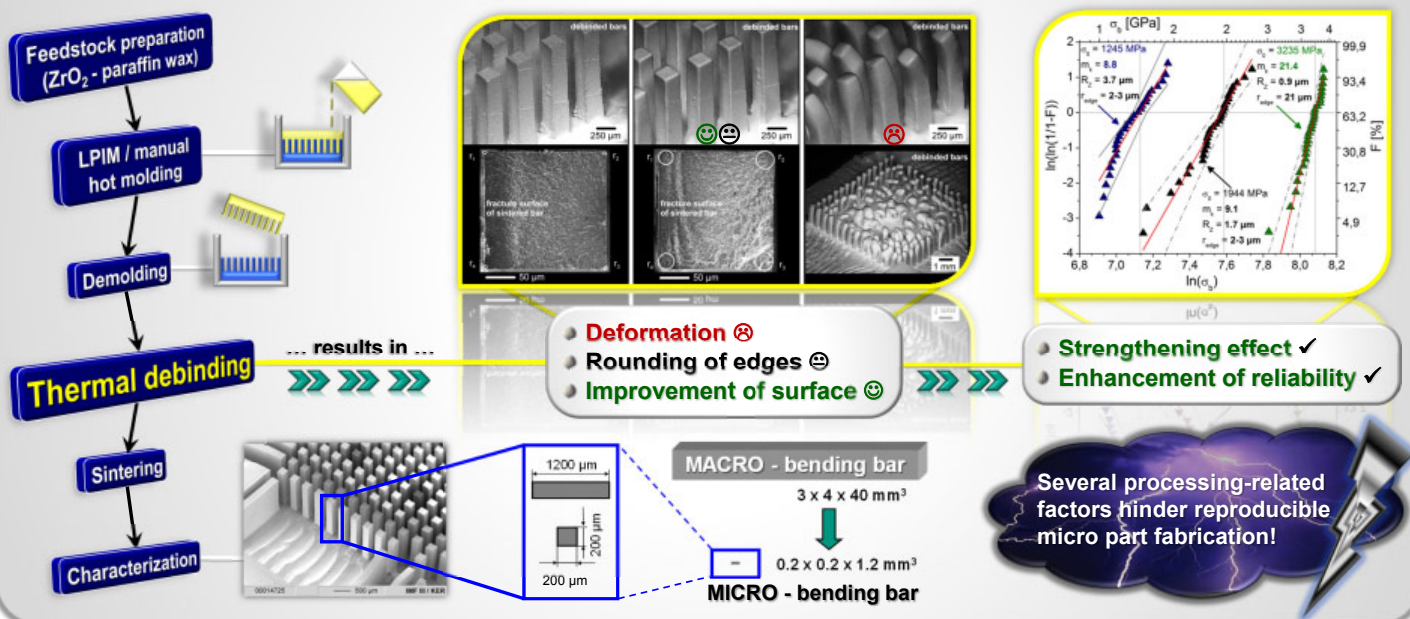




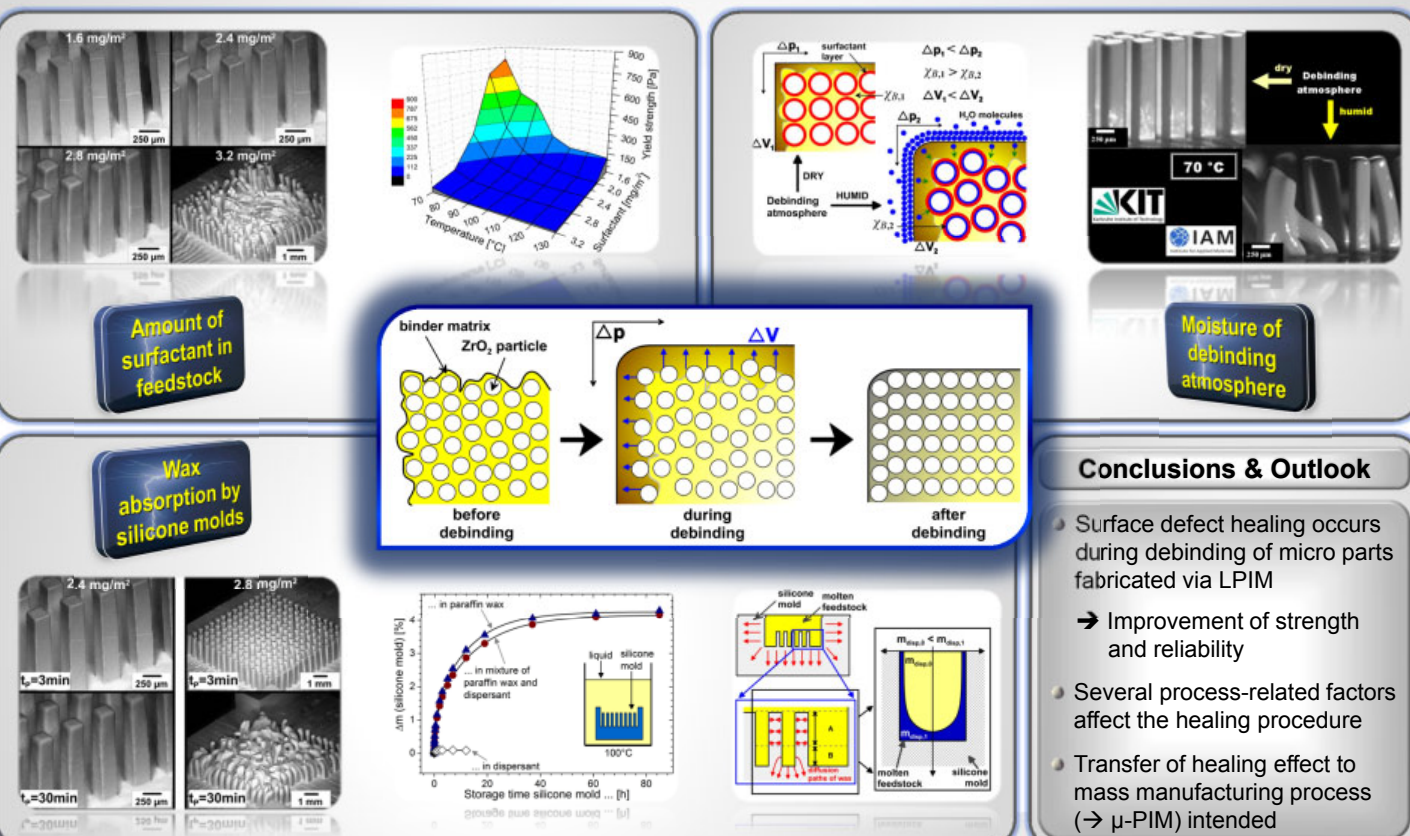
Strengthening of Low-pressure Injection Molded (LPIM) Ceramic Micro Parts by Leveling of Surface Defects

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Motivation: Unique Properties of 3Y-TZP Micro Bending Bars fabricated via LPIM



Factors influencing healing and leveling of surface defects during thermal debinding



Conclusions & Outlook

- Surface defect healing occurs during debinding of micro parts fabricated via LPIM
 - Improvement of strength and reliability
- Several process-related factors affect the healing procedure
- Transfer of healing effect to mass manufacturing process (→ μ -PIM) intended