University of Stuttgart

IKMT – Institut für Keramische Materialien und Technologien

stuttgarter maschinenbau
interdisziplinär und vielfältig

Theses Opportunities

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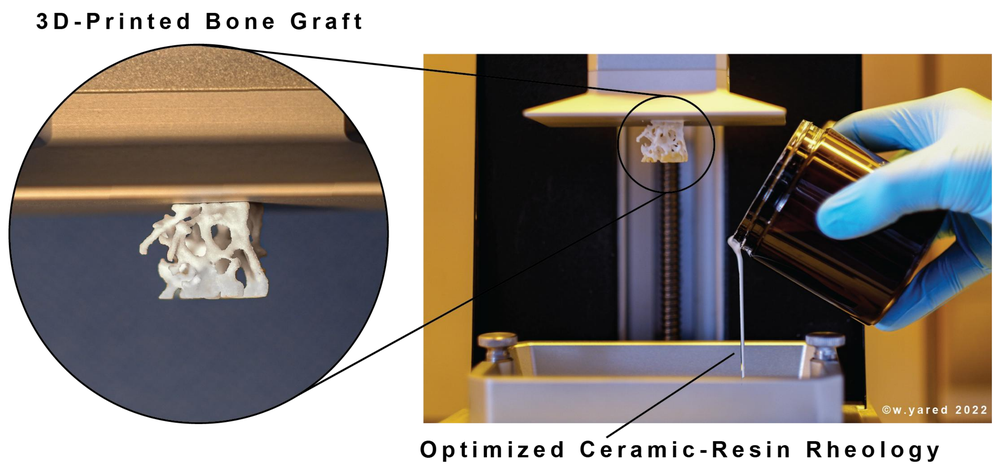
The IKMT continuously offers engaging thesis opportunities in the area of advanced ceramics. Some examples are provided below.

Want to know more? - contact us

Additive Manufacturing – Stereolithography: wadih.yared@ikmt.uni-stuttgart.de

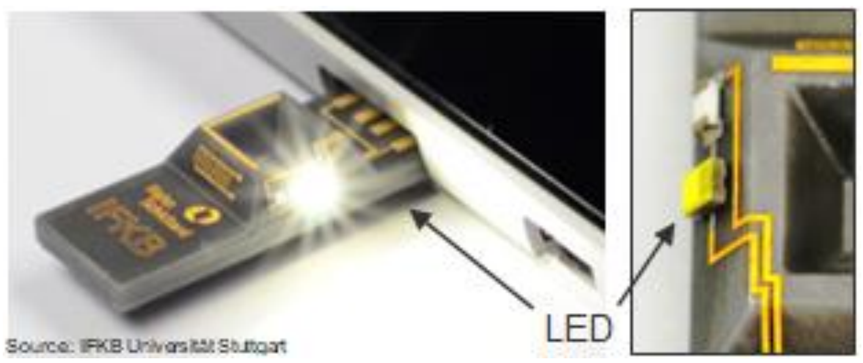
- Development of ceramic suspensions for stereolithography.
- Investigating optimal printing parameters for 3D printing high-performance ceramic-filled resins.
- Optimizing the design of bone implants made from high-performance ceramics using stereolithography.



Laser induced direct metallization of ceramics: simon.keller@ikmt.uni-stuttgart.de

Ceramic Injection Molding

- Material development of ceramic 3D carriers for the application of electronic circuits and sensor technology.



- New type of ceramic injection molding and 5-axis milling of the pre-sintered parts to create 3D circuit carriers.

Material and process development: bettina.osswald@ikmt.uni-stuttgart.de

- Development of co- and multi-doped zirconia or oxide ceramic composites to improve mechanical properties and ageing resistance.
- Material property characterization tailored for various applications such as dental restorations, ceramic implants, and other biomedical uses.
- Suspension preparation and spray drying of ultra-fine oxide ceramic powders.

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