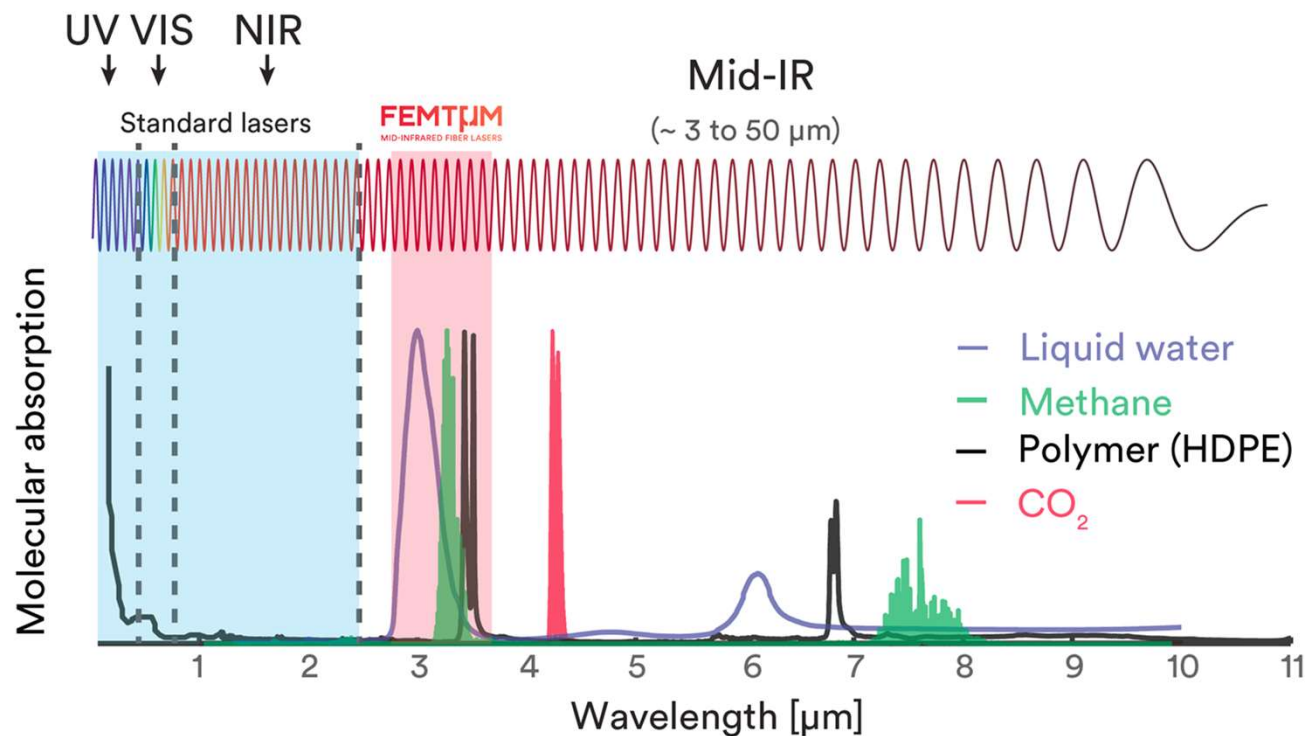


FEMTUM

MID-IR FIBER LASERS FOR ADVANCED MANUFACTURING

Why is the 3 μm range important?

強い分子吸収バンドに焦点を当てる



Scientific

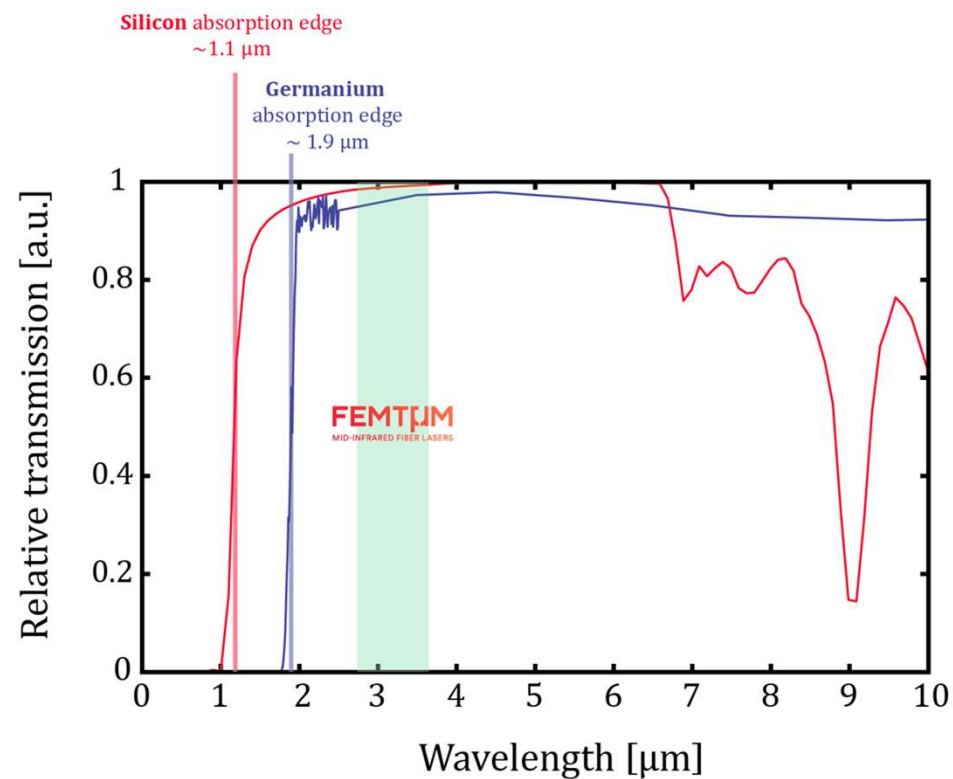
- 周波数コム
- IR分光法
- IRイメージング

Industrial

- ポリマー/有機素材加工
- 選択加工
- 外科手術等

Why is the 3 μm range important?

半導体および非線形素材への光透過性



Scientific

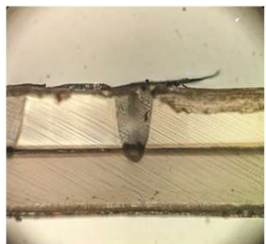
- スーパーコンティニューム生成
- 中赤外集積フォトニクス
- NL周波数変換

Industrial

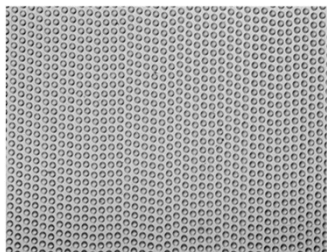
- 半導体加工
(洗浄、ダイシング、トリミング)

3 μm Industrial Applications

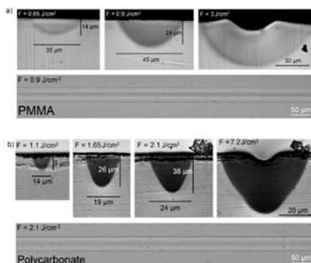
SPECIALTY POLYMER



異材溶接



マイクロバンプ

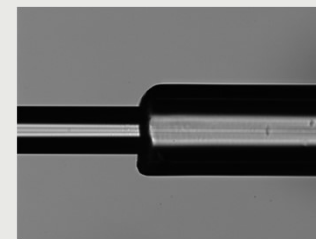


導波路作成

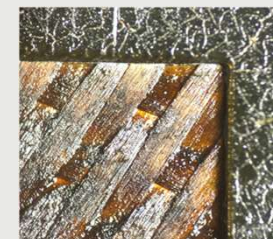


マイクロドリル加工

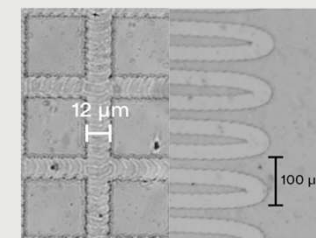
SELECTIVE



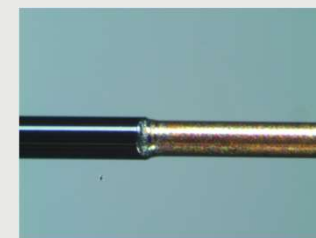
ファイバストリップ



塗装剥離



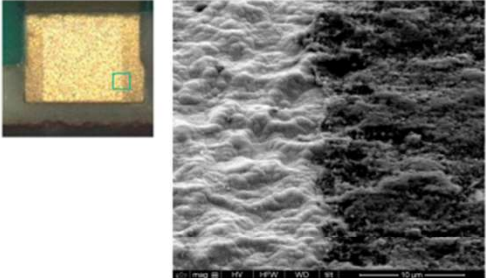
薄膜パターンニング



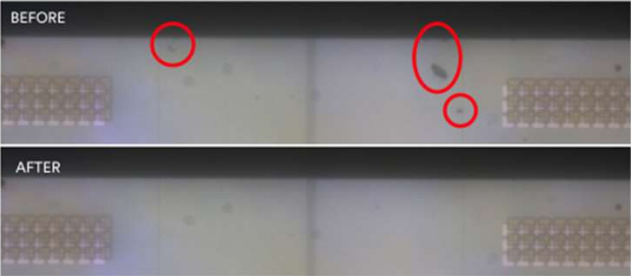
マイクロワイヤー・ストリップ

Femtum's back-end silicon foundry laser solutions

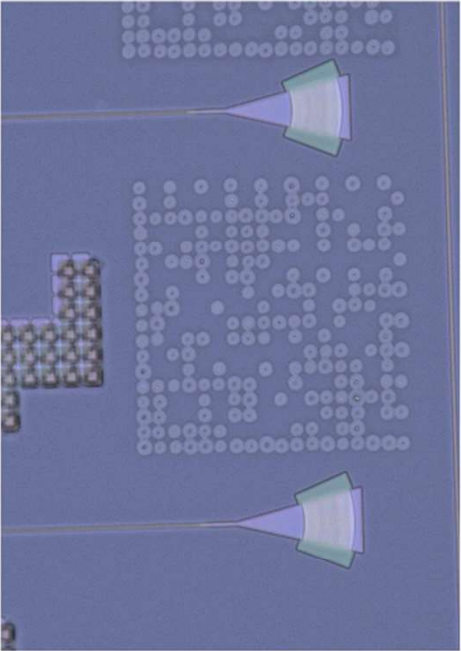
A – Pad Cleaning



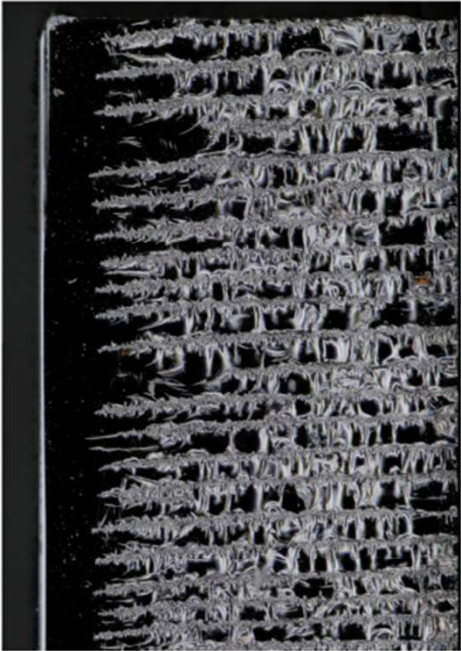
B - Particles cleaning



C – Micro-Marking



D – Laser Dicing



Focus

E – Laser Trimming

