

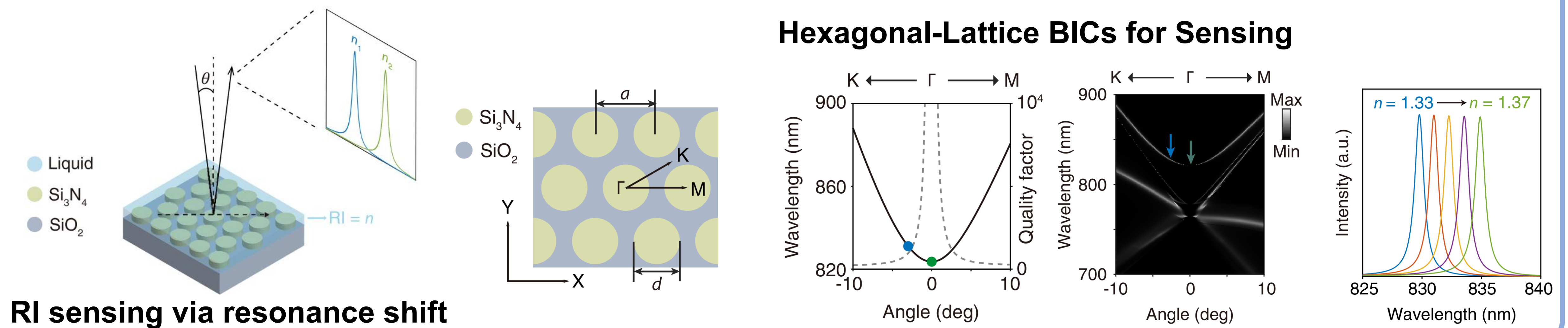
Self-assembly-based photonic crystal slabs for refractive index sensing via bound states in the continuum

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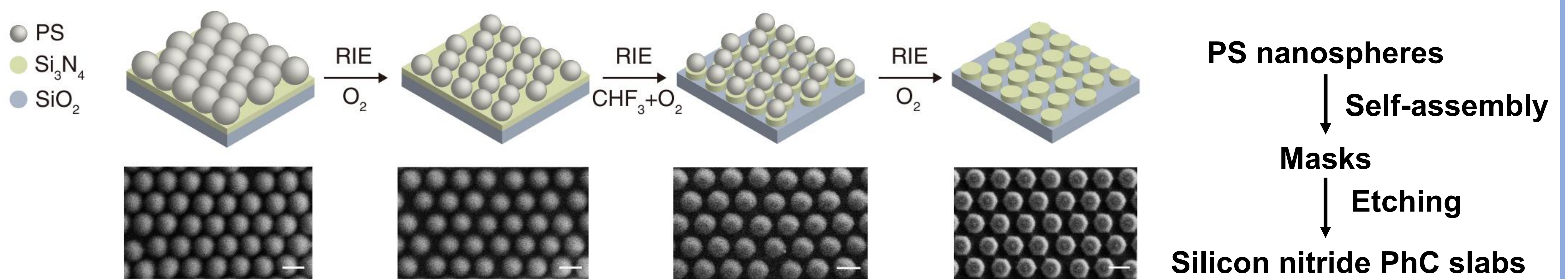
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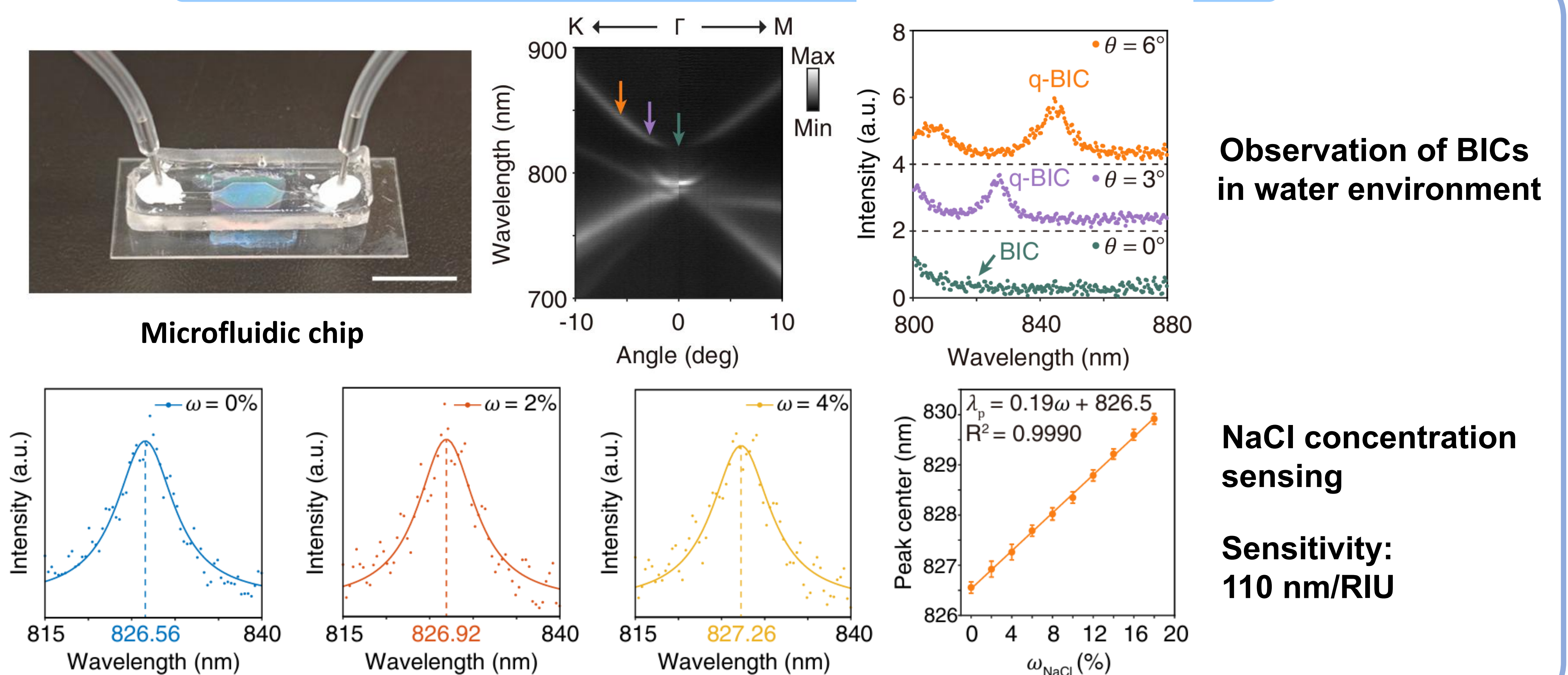
Refractive index sensing via BICs in photonic crystal slabs



Fabrication of PhC slabs based on self-assembly



Integrated microfluidic chips and RI sensing



Conclusion

1. Proposing a self-assembly-based method to fabricate photonic crystal (PhC) slabs working in the optical regime.
2. Realizing BICs designed for refractive index sensing.
3. Demonstrating a sensing application case via integrated microfluidic chips

Reference

Xu Y, Wu S, Jiang A, et al.
"Self-assembly-based photonic crystal slabs for refractive index sensing via bound states in the continuum."
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