Stanford

Michel Digonnet

Professor (Research) of Applied Physics

Bio

ACADEMIC APPOINTMENTS

- Professor-Research, Applied Physics

Teaching

COURSES

2023-24

- Optics and Electronics Seminar: APPPHYS 483 (Aut)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Bastien Van Esbeen, Song Zhu

Doctoral Dissertation Advisor (AC)

Mohammed Azzouz, Simon Bongarz, Hongxiang Jia

Publications

PUBLICATIONS

- **Emerging Trends in Laser-Cooling of Yb-Doped Silicate Fibers** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
  Chen, C., Meehan, B., Cahoon, M., Hawkins, T. W., Ballato, J., Dragic, P. D., Engholm, M., Boilard, T., Bernier, M., Digonnet, M. J. F.
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- **Moisture-Induced Bias Drift in a Fiber-Optic Gyroscope** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
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- **Compact, Low Noise, Dual FP Etalons Based External Cavity Diode Laser for Micro-Vibration Sensing Systems** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
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- **Calibration of a High-Resolution Slow-Light Fiber-Bragg-Grating Sensor for Temperature Measurements of Laser-Cooled Fibers** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
  Chen, C., Balliu, E., Talbot, L., Boilard, T., Meehan, B., Hawkins, T. W., Ballato, J., Bernier, M., Digonnet, M. J. F.
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Chen, C., Meehan, B., Hawkins, T. W., Ballato, J., Dragic, P. D., Boilard, T., Bernier, M., Digonnet, M. J.
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  Ballato, J., Dragic, P. D., Digonnet, M. J. F.
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- **High-efficiency radiation-balanced Yb-doped silica fiber laser with 200-mW output** *OPTICS LETTERS*
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  SPIE-INT SOC OPTICAL ENGINEERING.2024
- **Modular Aptamer Switches for the Continuous Optical Detection of Small-Molecule Analytes in Complex Media.** *Advanced materials (Deerfield Beach, Fla.)*
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- **Loss-Gain Coupled Ring Resonator Gyroscope**
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