

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

Chun Wei Chen

Doctoral Dissertation Advisor (AC)

Hongxiang Jia, Adele Zawada

Publications

PUBLICATIONS

- **Predictive comparison of anti-Stokes fluorescence cooling in oxide and non-oxide fiber hosts doped with Er³⁺ or Yb³⁺**
Balliu, E., Thontakudi, A., Knall, J. M., Digonnet, M. F., Seletskiy, D. V., Epstein, R. I., SheikBahae, M.
SPIE-INT SOC OPTICAL ENGINEERING.2019
- **Experimental investigations of spectroscopy and anti-Stokes fluorescence cooling in Yb-doped silicate fibers**
Knall, J. M., Arora, A., Dragic, P., Ballato, J., Cavillon, M., Hawkins, T., Jiang, S., Luo, T., Bernier, M., Digonnet, M., Seletskiy, D. V., Epstein, R. I., SheikBahae, et al
SPIE-INT SOC OPTICAL ENGINEERING.2019
- **High-resolution slow-light fiber Bragg grating temperature sensor with phase-sensitive detection** *OPTICS LETTERS*
Arora, A., Esmaeelpour, M., Bernier, M., Digonnet, M. F.
2018; 43 (14): 3337–40
- **Double-Ring Resonator Optical Gyroscopes** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
Grant, M. J., Digonnet, M. F.
2018; 36 (13): 2708–15
- **In-situ fiber temperature sensor for anti-Stokes cooling measurements in doped fibers**
Arora, A., Esmaeelpour, M., Knall, J. M., Freniere, J., Boilard, T., Bernier, M., Digonnet, M. F., Epstein, R. I., Seletskiy, D. V., SheikBahae, M.
SPIE-INT SOC OPTICAL ENGINEERING.2018
- **Double-ring optical resonator gyroscopes using 3x3 fiber couplers**
Grant, M. J., Digonnet, M. F., Shahriar, S. M., Scheuer, J.

SPIE-INT SOC OPTICAL ENGINEERING.2018

- **Model of anti-Stokes cooling in a Yb-doped fiber**
Knall, J., Esmaelpour, M., Digonnet, M., Epstein, R. I., Seletskiy, D. V., SheikBahae, M.
SPIE-INT SOC OPTICAL ENGINEERING.2018
- **Photonics sensing at the thermodynamic limit** *OPTICS LETTERS*
Skolianos, G., Arora, A., Bernier, M., Digonnet, M. J.
2017; 42 (10): 2018-2021
- **Aircraft-navigation-grade laser-driven FOG with Gaussian-noise phase modulation** *OPTICS LETTERS*
Chamoun, J., Digonnet, M. J.
2017; 42 (8): 1600-1603
- **Observation of thermodynamic phase noise using a slow-light resonance in a fiber Bragg grating**
Skolianos, G., Arora, A., Bernier, M., Digonnet, M., Shahriar, S. M., Scheuer, J.
SPIE-INT SOC OPTICAL ENGINEERING.2017
- **Pseudo-random-bit-sequence phase modulation for reduced errors in a fiber optic gyroscope** *OPTICS LETTERS*
Chamoun, J., Digonnet, M. J.
2016; 41 (24): 5664-5667
- **Slow light in fiber Bragg gratings and its applications** *JOURNAL OF PHYSICS D-APPLIED PHYSICS*
Skolianos, G., Arora, A., Bernier, M., Digonnet, M.
2016; 49 (46)
- **Observation of Unique Coupling-Independent Resonances in Coupled Spiral Resonators** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
Guo, W., Digonnet, M. J.
2016; 34 (13): 3087-3093
- **Haltère-Like Optoelectromechanical Gyroscope** *IEEE SENSORS JOURNAL*
Kilic, O., Ra, H., Akkaya, O. C., Digonnet, M. J., Solgaard, O.
2016; 16 (11): 4274-4280
- **Photonic-Crystal-Based Fiber Hydrophone With Sub-100 μ Pa/ $\sqrt{\text{Hz}}$ Pressure Resolution** *IEEE PHOTONICS TECHNOLOGY LETTERS*
Jan, C., Jo, W., Digonnet, M. J., Solgaard, O.
2016; 28 (2): 123-126
- **Highly Sensitive Phase-Front-Modulation Fiber Acoustic Sensor** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
Jo, W., Kilic, O., Digonnet, M. J.
2015; 33 (20)
- **Fiber-feedback optical parametric oscillator for half-harmonic generation of sub-100-fs frequency combs around 2 μ m.** *Optics letters*
Ingold, K. A., Marandi, A., Digonnet, M. J., Byer, R. L.
2015; 40 (18): 4368-4371
- **High Purcell factor in fiber Bragg gratings utilizing the fundamental slow-light mode** *OPTICS LETTERS*
Skolianos, G., Arora, A., Bernier, M., Digonnet, M. J.
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- **Noise and Bias Error Due to Polarization Coupling in a Fiber Optic Gyroscope** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
Chamoun, J. N., Digonnet, M. J.
2015; 33 (13): 2839-2847
- **Effect of periodic modulation of the coupling ratios on the sensitivity of a CROW gyroscope** *JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS*
Aghaie, K. Z., Digonnet, M. J.
2015; 32 (6): 1120-1124
- **Slowing down light to 300 km/s in a deuterium-loaded fiber Bragg grating** *OPTICS LETTERS*
Skolianos, G., Arora, A., Bernier, M., Digonnet, M. J.

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- **Sensitivity limit of a coupled-resonator optical waveguide gyroscope with separate input/output coupling** *JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS*
Aghaie, K. Z., Digonnet, M. J.
2015; 32 (2): 339-344
- **Strong Slow-Light Resonances in Apodized Deuterium-Loaded Femtosecond Fiber Bragg Gratings** *Conference on Slow Light, Fast Light, and Opto-Atomic Precision Metrology VIII*
Skolianos, G., Arora, A., Bernier, M., Digonnet, M. J.
SPIE-INT SOC OPTICAL ENGINEERING.2015
- **Rotation sensitivity analysis of a two-dimensional array of coupled resonators** *Conference on Slow Light, Fast Light, and Opto-Atomic Precision Metrology VIII*
Aghaie, K. Z., Vigneron, P., Digonnet, M. J.
SPIE-INT SOC OPTICAL ENGINEERING.2015
- **Advances in 2- μ m Tm-doped mode-locked fiber lasers** *OPTICAL FIBER TECHNOLOGY*
Rudy, C. W., Digonnet, M. J., Byer, R. L.
2014; 20 (6): 642-649
- **Coupled Spiral Interferometer Gyroscope** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
Guo, W., Digonnet, M. J.
2014; 32 (22): 4360-4364
- **Coupled Spiral Interferometers** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
Guo, W., Digonnet, M. J.
2014; 32 (21): 4162-4168
- **Piconewton force measurement using a nanometric photonic crystal diaphragm** *OPTICS LETTERS*
Jo, W., Digonnet, M. J.
2014; 39 (15): 4533-4536
- **Thermal Sensitivity of the Birefringence of Air-Core Fibers and Implications for the RFOG** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
Zhao, X., Louveau, J., Chamoun, J., Digonnet, M. J.
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Skolianos, G., Bernier, M., Vallee, R., Digonnet, M. J.
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- **Sensitivity analysis of linear CROW gyroscopes and comparison to a single-resonator gyroscope** *Conference on Advances in Slow and Fast Light VII*
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- **Low noise and low drift in a laser-driven fiber optic gyroscope with a 1-km coil** *23rd International Conference on Optical Fibre Sensors*
Chamoun, J. N., Evans, A., Mosca, F. A., Digonnet, M. J.
SPIE-INT SOC OPTICAL ENGINEERING.2014
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Jo, W., Akkaya, O. C., Solgaard, O., Digonnet, M. J.
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- **Time-Division-Multiplexed Interferometric Sensor Arrays** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
Akkaya, O. C., Digonnet, M. J., Kino, G. S., Solgaard, O.
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- **Modeling Coherent Backscattering Errors in Fiber Optic Gyroscopes for Sources of Arbitrary Line Width** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
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- **Experimental Observation of Low Noise and Low Drift in a Laser-Driven Fiber Optic Gyroscope** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
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Aghaie, K. Z., Digonnet, M. J., Fan, S.
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- **Modeling Loss and Backscattering in a Photonic-Bandgap Fiber Using Strong Perturbation** *Conference on Photonic and Phononic Properties of Engineered Nanostructures III*
Aghaie, K. Z., Digonnet, M. J., Fan, S.
SPIE-INT SOC OPTICAL ENGINEERING.2013
- **Compact Coupled Resonators for Slow-Light Sensor Applications** *Conference on Advances in Slow and Fast Light VI*
Guo, W., Digonnet, M.
SPIE-INT SOC OPTICAL ENGINEERING.2013
- **Modeling and Demonstration of Thermally Stable High-Sensitivity Reproducible Acoustic Sensors** *JOURNAL OF MICROELECTROMECHANICAL SYSTEMS*
Akkaya, O. C., Kilic, O., Digonnet, M. J., Kino, G. S., Solgaard, O.
2012; 21 (6): 1347-1356
- **Resonant Fiber Optic Gyroscope Using an Air-Core Fiber** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
Terrel, M. A., Digonnet, M. J., Fan, S.
2012; 30 (7): 931-937
- **Sensing With Slow Light in Fiber Bragg Gratings** *IEEE SENSORS JOURNAL*
Wen, H., Terrel, M., Fan, S., Digonnet, M.
2012; 12 (1): 156-163
- **Improving fiber optic gyroscope performance using a laser and photonic-bandgap fiber** *22nd International Conference on Optical Fiber Sensors (OFS)*
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- **Slow Light in Fiber Sensors** *Conference on Advances in Slow and Fast Light V*
Digonnet, M. J., Wen, H., Terrel, M. A., Fan, S.
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- **Rotation Sensitivity of Gyroscopes Based on Distributed-Coupling Loop Resonators** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
Digonnet, M. J.
2011; 29 (20): 3048-3053
- **Miniature photonic-crystal hydrophone optimized for ocean acoustics** *JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA*
Kilic, O., Digonnet, M. J., Kino, G. S., Solgaard, O.
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SPIE-INT SOC OPTICAL ENGINEERING.2011

- **Tactical-grade interferometric fiber optic gyroscope driven with a narrow-linewidth laser** *21st International Conference on Optical Fiber Sensors*
Lloyd, S. W., Digonnet, M. J., Fan, S.
SPIE-INT SOC OPTICAL ENGINEERING.2011
- **Near shot-noise-limited performance of an open-loop laser-driven interferometric fiber optic gyroscope** *21st International Conference on Optical Fiber Sensors*
Lloyd, S. W., Digonnet, M. J., Fan, S.
SPIE-INT SOC OPTICAL ENGINEERING.2011
- **Fabry-Perot Fiber Sensors with Reproducible Displacement Sensitivities** *16th International Conference on Optical MEMS and Nanophotonics (OMN)*
Akkaya, O. C., Kilic, O., Digonnet, M. J., Kino, G. S., Solgaard, O.
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- **Optimization of the splice loss between photonic-bandgap fibers and conventional single-mode fibers** *OPTICS LETTERS*
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Lloyd, S. W., Dangui, V., Digonnet, M. J., Fan, S., Kino, G. S.
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- **Coupled resonator gyroscopes: what works and what does not** *Conference on Advances in Slow and Fast Light III*
Terrel, M. A., Digonnet, M. J., Fan, S.
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- **High-Sensitivity Thermally Stable Acoustic Fiber Sensor** *2010 IEEE Sensors Conference*
Akkaya, O. C., Kilic, O., Digonnet, M. J., Kino, G. S., Solgaard, O.
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- **Asymmetrical Spectral Response in Fiber Fabry-Perot Interferometers (vol 27, pg 5648, 2009)** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
Kilic, O., Digonnet, M. J., Kino, G. S., Solgaard, O.
2010; 28 (1): 188-188
- **Asymmetrical Spectral Response in Fiber Fabry-Perot Interferometers** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
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Terrel, M., Digonnet, M. J., Fan, S.
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- **Room-Temperature Stable Generation of 19 Watts of Single-Frequency 532-nm Radiation in a Periodically Poled Lithium Tantalate Crystal** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
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- **Controlling uncoupled resonances in photonic crystals through breaking the mirror symmetry** *OPTICS EXPRESS*
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- **External fibre Fabry-Perot acoustic sensor based on a photonic-crystal mirror** *18th International Conference on Optical Fibre Sensors*
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- **Noise analysis of an air-core fiber optic gyroscope** *IEEE PHOTONICS TECHNOLOGY LETTERS*
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- **Linearly polarized, 3.35 W narrow-linewidth, 1150 nm fiber master oscillator power amplifier for frequency doubling to the yellow** *OPTICS LETTERS*

- Sinha, S., Urbanek, K. E., Hum, D. S., Digonnet, M. J., Fejer, M. M., Byer, R. L.
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- **Polarization controller for hollow-core fiber** *OPTICS LETTERS*
Terrel, M., Digonnet, M. J., Fan, S.
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 - **Determination of the mode reflection coefficient in air-core photonic bandgap fibers** *OPTICS EXPRESS*
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 - **Quasi-phase-matched grating characterization using minimum-phase functions** *OPTICS COMMUNICATIONS*
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 - **Pickup suppression in Sagnac-based fiber-optic acoustic sensor array** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
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 - **Minimum-phase-function-based processing in frequency-domain optical coherence tomography systems** *JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION*
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- **Frequency-domain optical coherence tomography based on minimum-phase functions** *Conference on Coherence Domain Optical Methods and Optical Coherence Tomography in Biomedicine X*
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