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Bio

ACADEMIC APPOINTMENTS

- Physical Science Research Scientist, Edward L. Ginzton Laboratory

Publications

PUBLICATIONS

- **Low Mechanical Loss TiO₂:GeO₂ Coatings for Reduced Thermal Noise in Gravitational Wave Interferometers.** *Physical review letters*
Vajente, G., Yang, L., Davenport, A., Fazio, M., Ananyeva, A., Zhang, L., Billingsley, G., Prasai, K., Markosyan, A., Bassiri, R., Fejer, M. M., Chicoine, M., Schiettekatte, et al
2021; 127 (7): 071101
- **Low Mechanical Loss TiO₂:GeO₂ Coatings for Reduced Thermal Noise in Gravitational Wave Interferometers** *PHYSICAL REVIEW LETTERS*
Vajente, G., Yang, L., Davenport, A., Fazio, M., Ananyeva, A., Zhang, L., Billingsley, G., Prasai, K., Markosyan, A., Bassiri, R., Fejer, M. M., Chicoine, M., Schiettekatte, et al
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- **Optical parametric oscillation in silicon carbide nanophotonics** *OPTICA*
Guidry, M. A., Yang, K., Lukin, D. M., Markosyan, A., Yang, J., Fejer, M. M., Vuckovic, J.
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- **Modifications of ion beam sputtered tantalum thin films by secondary argon and oxygen bombardment**
Yang, L., Randel, E., Vajente, G., Ananyeva, A., Gustafson, E., Markosyan, A., Bassiri, R., Fejer, M., Menoni, C.

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- **Growth and characterization of Sc₂O₃ doped Ta₂O₅ thin films**
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- **Investigation of effects of assisted ion bombardment on mechanical loss of sputtered tantala thin films for gravitational wave interferometers** *PHYSICAL REVIEW D*
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- **Effects of waveform model systematics on the interpretation of GW150914** *CLASSICAL AND QUANTUM GRAVITY*
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- **GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes** *PHYSICAL REVIEW LETTERS*
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 - **Optical absorption of ion-beam sputtered amorphous silicon coatings** *PHYSICAL REVIEW D*
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 - **Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers** *PHYSICAL REVIEW D*
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 - **Observation of Gravitational Waves from a Binary Black Hole Merger** *PHYSICAL REVIEW LETTERS*
Abbott, B. P., Abbott, R., Abbott, T. D., ABERNATHY, M. R., Acernese, F., Ackley, K., Adams, C., Adams, T., Addesso, P., Adhikari, R. X., Adya, V. B., Affeldt, C., Agathos, et al
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 - **Characterization of the LIGO detectors during their sixth science run** *CLASSICAL AND QUANTUM GRAVITY*
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