

List of Publications

SAWtrain Network

Status: April 10, 2019

A list of the publications and contributions to conferences, workshops, and meetings of the SAWtrain project, ordered according to author and date.

The name of the Early Stage Researcher is highlighted in **bold**. Please refer to <http://www.sawtrain.eu/about-us/#fellows> for more information about each individual researcher.

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Articles

Arvidsson-Shukur, D. R. M., **Lepage, H. V.**, Owen, E. T., Ferrus, T., and Barnes, C. H. W. (2017). Protocol for fermionic positive-operator-valued measures. *Physical Review A*, 96(5). <https://doi.org/10.1103/PhysRevA.96.052305>

Caliendo, C., and **Hamidullah, M.** (2016). "A Theoretical Study of Love Wave Sensors Based on ZnO-Glass Layered Structures for Application to Liquid Environment." *Biosensors MDPI*. <https://doi.org/10.3390/bios6040059>

———. (2017). "Zero-group-velocity acoustic waveguides for high-frequency resonators". *Journal of Physics D: Applied Physics*, 50(47). <https://doi.org/10.1088/1361-6463/aa900f>

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———. (2018) "Pressure sensing with zero group velocity lamb modes in self-supported a-SiC/c-ZnO membranes" *Journal of Physics D: Applied Physics*, 51(38). <https://doi.org/10.1088/1361-6463/aad6f3>

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- . (2017b). “Love Wave Sensor Based on PMMA/ZnO/Glass Structure for Liquids Sensing.” *Sciforum Electronic Conference Series 3*: 1. <https://doi.org/10.3390/ecsa-3-C005>
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- Edlbauer, H.**, Takada, S., Roussely, G., Yamamoto, M., Tarucha, S., Ludwig, A., Bäuerle, C. (2017). Non-universal transmission phase behaviour of a large quantum dot. *Nature Communications*, 8(1). <https://doi.org/10.1038/s41467-017-01685-z>
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- Fandan, R.**, Pedros, J., Schiefele, J., Bosca, A., Martinez, J., and Calle, F. “Acoustically- driven surface and hyperbolic plasmon-phonon polaritons in graphene/h-BN heterostructures on piezoelectric substrates”. In: *Journal of Physics D* 51 (2018). <https://doi.org/10.1088/1361-6463/aab8bd>.
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- Hernández-Mínguez, A. , **Liou, Y.-T.** and Santos, P. V. “Interaction of surface acoustic waves with electronic excitations in graphene” *J. Phys. D: Appl. Phys.* 51, 383001 (2018) <https://doi.org/10.1088/1361-6463/aad593>
- Kuznetsov, A. S., **Helgers, P. L. J.**, Biermann, K., and Santos, P. V. (2018). Quantum confinement of exciton-polaritons in a structured (Al,Ga)As microcavity. *Physical Review B*, 97(19). <https://doi.org/10.1103/PhysRevB.97.195309>
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- Villa, B.**, Bennett, A. J., Ellis, D. J. P., Lee, J. P., Skiba-Szymanska, J., Mitchell, T. A., and Shields, A. J. (2017). Surface acoustic wave modulation of a coherently driven quantum dot in a pillar microcavity. *Applied Physics Letters*, 111(1). <https://doi.org/10.1063/1.4990966>
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Book Chapters

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Andersson, Gustav, Suri, B ., Guo, L., Aref, T., Ekström, M.K., Ask, A., Johansson, G., and Delsing, P.,. “Quantum acoustics with qubits: the SAW giant atom”. In: SAWtrain Summer School: Physics and applications of GHz vibrations in semiconductors (Cargèse, France, Jul. 11-21, 2017). 2017. url: https://kohlenstoff.physik.uni-augsburg.de/owncloud/remote.php/webdav/2_communication/publications/publications/ANDERSSON_SAWtrainSuS_17.pdf.

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Boscá, Alberto, Pedrós, Jorge, Ladrón de Guevara, Antonio, **Fandan, Rajveer**, Martínez-Rodrigo, Javier and Calle, Fernando. “Optical quantification of strain and doping in



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Bühler, Dominik D, Crespo-Poveda, A., Cantarero, A., and de Lima M. M. "Advanced acoustically tuned optical modulators for integrated photonics". In: SAWtrain Summer School: Physics and applications of GHz vibrations in semiconductors (Cargèse, France, Jul. 11-21, 2017). 2017. url: https://kohlenstoff.physik.uni-augsburg.de/owncloud/remote.php/webdav/2_communication/publications/publications/Buehler_SAWtrainSuS_17.pdf.

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