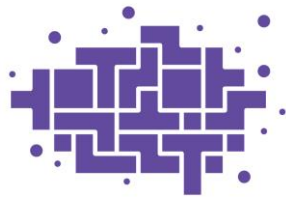


Projekta Izp-2018/1-0510 rezultāti

Optiski čukstošās galerijas modu mikrorezonatoru sensori

Oriģināli zinātniskie raksti, kas publicēti zinātniskos žurnālos, rakstu krājumos vai konferenču rakstu krājumos, kuri ir indeksēti datu bāzēs Web of Science Core Collection, SCOPUS vai ERIH PLUS

1. Berkis, R.; Alnis, J.; Atvars, A.; Brice, I.; Draguns, K.; Grundsteins, K.; Ieee. Quality Factor Measurements for PMMA WGM Microsphere Resonators Using Fixed Wavelength Laser and Temperature Changes. - 9th IEEE International Conference Nanomaterials - Applications and Properties (NAP), Odessa, UKRAINE, Sep 15-20, 2019; Ieee: NEW YORK, 2019, <https://doi.org/10.1109/nap47236.2019.219072>
2. Berķis, R.; Draguns, K.; Alnis, J.; Brice, I.; Atvars, A. Scattering loss analysis in PMMA WGM micro resonator from surface irregularities. - Applied Industrial Spectroscopy, AIS 2021 - Part of Optical Sensors and Sensing Congress 2021, Optica Publishing Group.
3. Berkis, R.; Reinis, P. K.; Milgrave, L.; Draguns, K.; Salgals, T.; Brice, I.; Alnis, J.; Atvars, A. Wavelength Sensing Based on Whispering Gallery Mode Mapping. – Fibers, 2022, 10 (10), <https://doi.org/10.3390/fib10100090>
4. Atvars, A. Analytical description of resonances in Fabry-Perot and whispering gallery mode resonators. - Journal of the Optical Society of America B-Optical Physics, 2021, 38 (10), 3116-3129, <https://doi.org/10.1364/josab.419993>
5. Berķis, R.; Alnis, J.; Brice, I.; Atvars, A.; Draguns, K.; Grundšteins, K.; Reinis, P. K. Mode family analysis for PMMA WGM micro resonators using spot intensity changes. - Laser Resonators, Microresonators, and Beam Control XXIII 2021, SPIE: Vol. 11672. <https://doi.org/10.1117/12.2577025>
6. Draguns, K.; Brice, I.; Atvars, A.; Alnis, J. Computer modelling of WGM microresonators with a zinc oxide nanolayer using COMSOL multiphysics software. - Laser Resonators, Microresonators, and Beam Control XXIII, 2021, SPIE: Vol. 11672. <https://doi.org/10.1117/12.2578210>
7. Milgrave, L.; Reinis, P. K.; Brice, I.; Alnis, J.; Atvars, A. Selectivity of glycerol droplet microresonator humidity sensor. - Optical Sensing and Detection VII, 2022, SPIE: Vol. 12139. <https://doi.org/10.1117/12.2621124>



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8. Brice, I.; Grundsteins, K.; Draguns, K.; Atvars, A.; Alnis, J. Whispering gallery mode resonator temperature compensation and refractive index sensing in glucose droplets. – *Sensors*, 2021, 21 (21), <https://doi.org/10.3390/s21217184>
9. Reinis, P. K.; Milgrave, L.; Draguns, K.; Brice, I.; Alnis, J.; Atvars, A. High-sensitivity whispering gallery mode humidity sensor based on glycerol microdroplet volumetric expansion. – *Sensors*, 2021, 21 (5), 1-13, <https://doi.org/10.3390/s21051746>