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Spectral Tuning of Liquid Microdroplets: A Thesis ...

The whispering gallery modes (WGMs) of liquid microdroplets can have high quality factors due to the large contact angle. The liquid nature of the microdroplets provides large spectral tuning which can not be obtained by using solid microcavities. The large spectral tuning of WGMs of liquid microdroplets can be obtained by the size change by

SPECTRAL TUNING OF LIQUID MICRODROPLETS STANDING ON A ...

Large spectral tuning of liquid microdroplets by local heating with a focused infrared laser. ... while for the case of glycerol/water microdroplets the spectral tuning mechanism can be made highly reversible when the chamber is saturated with glycerol vapor and the relative water humidity approaches unity.

Large spectral tuning of liquid microdroplets by local ...

increase in the equatorial radius of the microdroplets resulting in the redshift of the WGMs which circulate in the equatorial plane parallel to the surface. We demonstrate spectral tuning by up to 4.7 nm as a result of a maximum applied voltage of 400 V. We also show that the observed spectral tuning mechanism is reversible.

Spectral tuning of liquid microdroplets standing on a ...

We report tunability over large spectral ranges up to 30 nm at around 590 nm. For salty water

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microdroplets the reported spectral tuning mechanism is almost fully reversible, while for tire case of glycerol/water microdroplets the spectral tuning mechanism can be made highly reversible when the chamber is saturated with glycerol vapor and the relative water humidity approaches unity

Large spectral tuning of liquid microdroplets by local ...

For salty water microdroplets the reported spectral tuning mechanism is almost fully reversible, while for the case of glycerol/water microdroplets the spectral tuning mechanism can be made highly reversible when the chamber is saturated with glycerol vapor and the relative water humidity approaches unity.

Large spectral tuning of liquid microdroplets by local ...

These findings indicate laser induced evaporation of the microdroplet as the source of the spectral tuning mechanism. Constant infrared laser illumination leads to the evaporation of the water content of individual microdroplets until a new equilibrium is established with the sealed chamber.

Erratum: □Large spectral tuning of liquid microdroplets by ...

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Using electrowetting, we demonstrate reversible spectral tuning of the whispering gallery modes of glycerol/water microdroplets standing on a superhydrophobic surface by up to 4.7 nm at 400 V. Our results can inspire electrically tunable optical

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Spectral Tuning of Liquid Microdroplets, 978-3-8454-3748-4, 9783845437484, 3845437480, Physics, astronomy , Liquid microdroplets standing on a superhydrophobic surface can also provide a three dimensional confinement for light. The use of superhydrophobic surfaces is very efficient and costless way to protect the sphericity and provide the position stabilization of liquid microdroplets.

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Liquid microdroplets standing on a superhydrophobic surface can also provide a three dimensional confinement for light. The use of superhydrophobic surfaces is very efficient and costless way to protect the sphericity and provide the position stabilization of liquid microdroplets. The whispering gallery modes (WGMs) of liquid microdroplets can have high quality factors due to the large contact ...

Spectral Tuning of Liquid Microdroplets - Yasin Karadag ...

The liquid nature of the microdroplets provides large spectral tuning which can not be obtained by using solid microcavities. The large spectral tuning of WGMs of liquid microdroplets can be obtained by the size change by using evaporation/condensation kinetics or the shape deformation by using electrowetting.

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Spectral tuning up to 30 nm is presented in the whispering gallery modes as a result of the deformation of the microdroplets toward a truncated prolate spheroid geometry.

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