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(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

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microdroplets can be obtained by
the size change by

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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.

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increase in the equatorial radius of
the microdroplets result-ing in the
redshift of the WGMs which
circulate in the equa-torial plane
parallel to the surface. We

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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.

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We report tunability over large spectral ranges up to 30 run at around 590 nm. For salty water microdroplets the reported spectral timing mechanism is almost fully reversible, while for tire case of glycerol/water microdroplets the spectral timing

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Mechanism can be made highly
reversible when the chamber is
saturated with glycerol vapor and
the relative water humidity
approaches unity

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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

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vapor and the relative water
humidity approaches unity.

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These findings indicate laser
induced evaporation of the
microdroplet as the source of the

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spectral tuning mechanism. The
Constant infrared laser illumination
leads to the evaporation of the
water content of individual
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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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superhydrophobic surfaces is the very efficient and costless way to protect the sphericity and provide the position stabilization of liquid microdroplets.

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position stabilization of liquid microdroplets. The whispering gallery modes (WGMs) of liquid microdroplets can have high quality factors due to the large contact ...

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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

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the size change by using
evaporation/condensation kinetics
or the shape deformation by using
electrowetting.

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