

Development of Love wave resonators for biological sensing

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¹Gizeli, E., et al. "Sensitivity of the acoustic waveguide biosensors and Bioelectronics 18.11 (2003): 1399-1406. ²Kustanovich, Kiryl, Ventsislav Yantchev, and Aldo Jesorka. "Design and characterization binding as a function of the waveguide biosensor to protein binding as a function of the waveguide of surface acoustic wave resonance (SAR) system for in-liquid sensing." 2017 EFTF/IFCS. IEEE, 2017.



LOVE WAVE RESONATORS FOR BIOLOGICAL SENSING

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VS.	h	
/	•	Q reduces by a factor of 10
	-	from air to water because of
		<u>viscosity</u>
	-	Confirmed positive influence
/		of increasing the SiO ₂
.4 0	.5	thickness on Q-factor.