

Materials List for

Fabrication and Characterization of Thickness Mode Piezoelectric Devices for Atomization and Acoustofluidics

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jove.com/video/61015

Materials

Name	Company	Catalog Number	Comments
Amplifier	Amplifier Research, Souderton, PA, USA	5U1000	
Articulating arm	Fisso, Zurich, Switzerland		
CF4 Objective	Edmund Optics, Barrington, NJ, USA		Objective used for high speed imaging
Dicing saw	Disco, Tokyo, Japan	Disco Automatic Dicing Saw 3220	
Fiber Fragrance Diffuser Wick	Weihai Industry Co., Ltd., Weihai, Shandong, China	https://www.weihaisz.com/Fiber-Fragrance-Diffuser-Wick_p216.html	
High Speed Camera	Photron, San Diego, USA	Fastcam Mini	
Laser Doppler Vibrometer	Polytec, Waldbronn, Germany	UHF120	Non-contact laser doppler vibrometer
Laser Scattering Droplet size measurement system	Malvern Panalytical, Malvern, UK	STP5315	
Lithium niobate substrate	PMOptics, Burlington, MA, USA	PWLN-431232	4" double-side polished 0.5 mm thick 128°Y-rotated cut lithium niobate
Luer-lock syringes	Becton Dickinson, New Jersey, USA		
Nano3 cleanroom facility	UCSD, La Jolla, CA, USA		Fabrication process is performed in it.
Network Analyzer	Keysight Technologies, Santa Rosa, CA, USA	5061B	
Oscilloscope	Keysight Technologies, Santa Rosa, CA, USA	InfiniiVision 2000 X-Series	
PSV Acquisition Software	Polytec, Waldbronn, Germany	Version 9.4	LDV Software
PSV Presentation Software	Polytec, Waldbronn, Germany	Version 9.4	LDV Software
Signal generator	NF Corporation, Yokohama, Japan	WF1967 multifunction generator	
Single Post Connector	DigiKey, Thief River Falls, MN	ED1179-ND	
Sputter deposition	Denton Vacuum, NJ, USA	Denton 18	Denton Discovery 18 Sputter System
Surface Mount Spring Contacts	DigiKey, Thief River Falls, MN	70AAJ-2-M0GCT-ND	
Teflon wafer dipper	ShapeMaster, Ogden, IL, USA	SM4WD1	Wafer Dipper 4"

XYZ Stage	Thor Labs, Newton, New Jersey, USA	MT3	Optical table stages
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