

Materials List for:

Fabrication of 1-D Photonic Crystal Cavity on a Nanofiber Using Femtosecond Laser-induced Ablation

Kali Prasanna Nayak¹, Jameesh Keloth¹, Kohzo Hakuta¹

¹Center for Photonic Innovations, University of Electro-Communications

Correspondence to: Kohzo Hakuta at k.hakuta@cpi.uec.ac.jp

URL: <https://www.jove.com/video/55136>

DOI: [doi:10.3791/55136](https://doi.org/10.3791/55136)

Materials

Name	Company	Catalog Number	Comments
Femtosecond Laser	Coherent Inc.	Libra HE	
Phase Mask	Ibsen Photonics	Custom Made	
Optical Nanofiber Manufacturing Equipment	Ishihara Sangyo	ONME	
ADC Card	PicoTech	ADC-24	
Single mode fiber	Fujikura	FutureGuide-SM	
Broadband source	NKT Photonics	SuperK EXTREME	
CW Tunable Laser	Coherent Inc.	MBR-110	
Spectrum analyser (Transmission spectrum)	Thermo Fisher Scientific	Nicolet 8700	
Spectrum analyser (Reflection spectrum)	Ocean Optics	QE65000	
CCD Camera	Thorlabs	DCC1545M	
Power Meter	Thorlabs	D3MM	
Pt-Coater	Vacuum Device Inc.	MSP-1S	
Scanning Electron Microscope	Keyence	VE-9800	
UV Curable Epoxy	NTT-AT	AT8105	
Photodiode	ThorLabs	PDA 36A-EC	
Clean room wipe	TEWipe	TX-404	
Fiber coating stripper	NTT-AT	Fiber nippers 250 µm	
Cover glass	Matsunami Glass IND,LTD	NEO micro cover glass 0.12-0.17 mm	
PZT	NOLIA	NAC 2011-H20	
Cylindrical lens stage	NewPort	M-481-A	
Y,Z stages	Chuo Precision Industrial Co., LTD.	LD-149-C7	
Rotation stage	SIGMA KOKI	KSPB-1026MH	
Z-stage(1), Z-stage(2)	NewPort	M-460P	