

Materials List for

Optical Trapping of Plasmonic Nanoparticles for *In Situ* Surface-Enhanced Raman Spectroscopy Characterizations

Xin Dai^{1,2}, Wenting Qiu^{1,2}, Jinqing Huang^{1,2}

¹HKUST-Shenzhen Research Institute ²Department of Chemistry, The Hong Kong University of Science and Technology

Corresponding Author

Jinqing Huang

jquang@ust.hk

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Materials

Name	Company	Catalog Number	Comments
1064 nm trapping laser	IPG Photonics, United States	1064 nm CW Yb fiber laser, 10W	
3,3'-Dithiobis[6-nitrobenzoic acid] bis(succinimide) ester	Biosynth Carbosynth	FD15467	
532 nm Raman excitation source	CNI, China	MLL-III-532	
Bluelake software	LUMICKS, Netherlands	version 1.6.12	optical tweezer control software
Frame tape	Thermo Fisher Scientific, Inc	AB-0576	
Immersion oil	Cargille Laboratories, Inc	16482	
Liquid nitrogen-cooled charge-coupled device (CCD) camera	Teledyn Princeton Instrument, United States	400B eXcelon	
Long-pass dichroic mirror	AHF, Germany	F48-801	
Magnetic laser safety screen	ThorLabs	TPSM2	
Optical tweezer microscope	LUMICKS, Netherlands	m-trap	
Silver nitrate	Sigma-Aldrich China, Inc.	S8157	
Spectrometer	Teledyn Princeton Instrument, United States	IsoPlane SCT-320	
Trisodium citrate	Sigma-Aldrich China, Inc.	S4641	
WinSpec software	Teledyn Princeton Instrument, United States	version 2.6.24.0	spectrum software