

Materials List for:

Functionalization and Dispersion of Carbon Nanomaterials Using an Environmentally Friendly Ultrasonicated Ozonolysis Process

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URL: <https://www.jove.com/video/55614>

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Materials

Name	Company	Catalog Number	Comments
Ultrasonic bath	Soniclean	80TD	
Ultrasonic horn	Misonix	S-4000-010 with CL5 converter	Daintree Scientific
Floccell stainless steel water jacketed	Misonix	800BWJ	Daintree Scientific
Peristaltic pump	Masterflex easy-load	7518-00	
Controller for peristaltic pump	Masterflex modular controller	7553-78	
Ozone generator	Ozone Solutions	TG-20	
Ozone destruct unit	Ozone Solutions	ODS-1	
Recirculating liquid cooler	Thermoline	TRC2-571-T	
Multi-mode power supply unit	TTi	EX752M	
High resolution computing multimeter	TTi	1906	
X-ray photoelectron spectroscopy	Kratos Analytical	Axis Nova	
XPS analysis software	Casa Software	Casa XPS	www.casaxps.com
Kratos elemental library for use with Casa XPS	Casa Software	Download Kratos Related Files	http://www.casaxps.com/kratos/
Raman dispersive confocal microscope	Thermo	DXR	
Field emission scanning electron microscope	Leo	1530 VP	
Sputter coater with iridium target	Cressington	208 HR	
Thickness measurement unit	Cressington	mtm 20	
Magnetic stirrer	Stuart	CD162	
Analytical balance	Kern	ALS 220-4N	
Analytical balance	Mettler Toledo	NewClassic MF MS 2045	
Laboratory balance	Shimadzu	ELB 3000	
Electrodes from 316 stainless steel sheet	RS Components	559-199	
Sanding sheets, P1000 grade	Norton	No-Fil A275	
Multi-walled carbon nanotubes	Hanwha	CM-95	http://hcc.hanwha.co.kr/eng/business/bus_table/nano_02.jsp

Graphene nanoplatelets	XG Sciences	XGNP Grade C	http://xgsciences.com/products/graphene-nanoplatelets/grade-c/
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