

Materials List for:

Synthesis of Graphene Nanofluids with Controllable Flake Size Distributions

Baolei Du¹, Jian Qifei¹

¹Department of Mechanical and Automotive Engineering, South China University of Technology

Correspondence to: Baolei Du at dubaolei@gmail.com, Jian Qifei at tcjqf@scut.edu.cn

URL: <https://www.jove.com/video/59740>

DOI: [doi:10.3791/59740](https://doi.org/10.3791/59740)

Materials

Name	Company	Catalog Number	Comments
Beaker	China Jiangsu Mingtai Education Equipments Co., Ltd.	500 mL	
Beaker	China Jiangsu Mingtai Education Equipments Co., Ltd.	5000 mL	
Deionized water	Guangzhou Yafei Water Treatment Equipment Co., Ltd.		analytical grade
Electronic balance	Shanghai Puchun Co., Ltd.	JEa10001	
Filter membrane	China Tianjin Jinteng Experiment Equipments Co., Ltd.	0.2 micron	
Graphite powder	Tianjin Dengke chemical reagent Co., Ltd.		analytical grade
Hand gloves	China Jiangsu Mingtai Education Equipments Co., Ltd.		
Laboratory shear mixer	Shanghai Specimen and Model Factory	jrj-300	
Long neck flat bottom flask	China Jiangsu Mingtai Education Equipments Co., Ltd.	1000 ml	
Nanoparticle analyzer	HORIBA, Ltd.	SZ-100Z	
PVA	Shanghai Yingjia Industrial Development Co., Ltd.	1788	analytical grade
Raman spectrophotometer	HORIBA, Ltd.	Horiba LabRam 2	
Scanning electron microscope	Zeiss Co., Ltd.	LEO1530VP	SEM
Surgical mask	China Jiangsu Mingtai Education Equipments Co., Ltd.	for one-time use	
Thermal Gravimetric Analyzer	German NETZSCH Co., Ltd.	NETZSCH TG 209 F1 Libra	TGA analysis
Transmission electron microscope	Japan Electron Optics Laboratory Co., Ltd.	JEM-1400plus	TEM
UV-Vis spectrophotometer	Agilent Technologies, Inc. +BB2:B18	Varian Cary 60	

Try the professional online HTML editor