

Materials List for:

Manufacturing of Three-dimensionally Microstructured Nanocomposites through Microfluidic Infiltration

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URL: <https://www.jove.com/video/51512>

DOI: [doi:10.3791/51512](https://doi.org/10.3791/51512)

Materials

| Name | Company | Catalog Number | Comments |
|-----------------------------|-------------------------|-----------------|------------------------------------|
| Dispensing Robot | I & J Fisnar | I & J2200-4 | |
| Robot software | I & J Fisnar | | JR-Point Dispensing |
| Syringe Barrel | Nordson EFD Inc. | 7012072 | 3 ml |
| Dispensing Nozzle | Nordson EFD Inc. | 7018225 | Stainless Steel Tip (ID: 0.51 mm) |
| Dispensing Nozzle | Nordson EFD Inc. | 7018424 | Stainless Steel Tip (ID: 0.15 mm) |
| Fluid Dispenser | Nordson EFD Inc. | HP-7X | |
| Fluid Dispenser | Nordson EFD Inc. | 800 | |
| Live camera | MediaCybernetics | QI, Cool, Color | 12 Bit, Qimaging |
| Live Camera Software | Image-Pro Plus | | Version 6 |
| Precision Saw | Buehler (IsoMet) | 622-ISF-03604 | Low-Speed Saw |
| Flexible plastic tube | Saint-Gobain PRL Corp. | Tygon 177936 | |
| Stirring hot plate | Barnstead International | SP131825 | |
| Vacuumed-oven | Cole-Parmer | EW-05053-10 | |
| Ultrasonic cleaner | Cole-Parmer | EW-08891-11 | |
| Three-roll mill mixer | Exakt Technologies | Exakt 80E | |
| Dynamic Mechanical Analyzer | TA Instruments | DMA Q800 | |
| UV-lamp | Cole Parmer | RK-97600-00 | Intensity of 21 mW/cm ² |