

Materials List for:

# Demonstration Of Equal-intensity Beam Generation By Dielectric Metasurfaces

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## Materials

| Name                                            | Company           | Catalog Number | Comments           |
|-------------------------------------------------|-------------------|----------------|--------------------|
| Plasma enhanced chemical vapor deposition       | BMR Technology    | HiDep-SC       |                    |
| Electron beam lithography                       | Elionix           | ELS-7800       |                    |
| E-beam evaporation system                       | Korea Vacuum Tech | KVE-E4000      |                    |
| Inductively-coupled plasma reactive ion etching | DMS               | -              |                    |
| Ultrasonic cleaner                              | Honda             | W-113          |                    |
| E-beam resist                                   | MICROCHEM         | 495 PMMA A2    |                    |
| Resist developer                                | MICROCHEM         | MIBK:IPA=1:3   |                    |
| Conducting polymer                              | Showa denko       | E-spacer       |                    |
| Chromium etchant                                | KMG               | CR-7           |                    |
| Acetone                                         | J.T. Baker        | 925402         |                    |
| 2-propanol                                      | J.T. Baker        | 909502         |                    |
| Chromium evaporation source                     | Kurt J. Lesker    | EVMCR35D       |                    |
| Collimated laser diode module                   | Thorlabs          | CPS-635        | wavelength: 635 nm |
| ND:YAG laser                                    | GAM laser         | GAM-2000       | wavelength: 532 nm |
| power meter                                     | Thorlabs          | S120VC         |                    |
| CCD Camera                                      | INFINITY          | infinity2-2M   |                    |
| ND filter                                       | Thorlabs          | NCD-50C-4-A    |                    |
| Linear polarizer                                | Thorlabs          | LPVISA100-MP2  |                    |
| Lens                                            | Thorlabs          | LB1676         |                    |
| Iris                                            | Thorlabs          | ID25           |                    |
| Circular polarizer                              | Edmund optics     | 88-096         |                    |
| sample holder                                   | Thorlabs          | XYFM1          |                    |
| PECVD software                                  | BMR Technology    | HIDEP          |                    |