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Laser Direct Writing for Wiring of Nanodevices JOHN FOURKAS, Boston College, CHRISTOPHER LAFRATTA, DANIEL LIM, TOMMASO BALDACCHINI, YUN PENG, MICHAEL NAUGHTON — Making electrical contacts to nanorods or nanowires generally requires the use of electron-beam lithography, which can be a time-consuming and complex process. We demonstrate the use of multiphoton laser direct writing to make electrical contacts to metallic nanorods. The entire process takes a matter of hours and can be accomplished on the bench top. Four-probe conductivity measurements show that the contacts to the nanorods are of high quality. We will also discuss applications of these nanodevices.

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