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5.6 ConclusionReferences; 6 Investigations on the Generation of Photonic Crystals using Two-Photon Polymerization (2PP) of Inorganic-Organic Hybrid Polymers with Ultra-Short Laser Pulses; 6.1 Introduction; 6.2 High-Refractive Index Inorganic-Organic Hybrid Polymers; 6.3 Multi-Photon Fabrication; 6.3.1 Experimental Setup; 6.3.2 Fabrication of PhC in Standard ORMOCER(®); 6.3.3 2PP of High Refractive Index Materials; 6.3.4 Patterning and PhC Fabrication in Positive Resist Material S1813; 6.4 Summary and Outlook; References
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`Nanophotonic Materials - Photonic Crystals, Plasmonics, and Metamaterials' summarizes the work and results of a consortium consisting of more than 20 German research groups concentrated on photonics crystals research over the last seven years. Illustrated throughout in full color, the book provides an overview of these novel materials, spanning the entire range from fundamentals to applications.