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Characterization of two-dimensional PhC GaAs slabs, with InAs QDs inside, on SiO₂/Si substrates as well as air-bridges. An identical PhC cavity design has been found valid for both air-bridged and on-SiO₂ GaAs PhC slab structures to tune the fundamental cavity mode frequencies

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in their photonic bandgaps to the QD gain.

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fabricated layers. Spectral characteristics of the transmittance of cerium oxide and magnesium fluoride films deposited onto quartz substrates exhibited a good transparency from the IR range up to 200 nm for MgF₂ film and to about 380 nm for CeO₂ film.

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Various types of 1-D PhC structures
have been fabricated using electron

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beam lithography and inductively coupled plasma technologies in a clean-room environment. The fabricated structures in effect demonstrate a first or primitive level of integration of 1-D PhCs with another optical device, namely a ridge waveguide.

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Mohamad Mahmoud. Integration of
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These fabricated layers have been characterized to determine their physical and optical properties using different methods: SEM, FTIR spectrometry, and spectroscopic ellipsometry. One of these methods, the ellipsometry, has been carried out during a three-month predoctoral

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We have demonstrated the design,
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Characterization Of TeO₂

metamaterial composed of silver nanowires embedded in an alumina matrix, achieving an effective indefinite property in permittivity.

The major challenge of creating such metamaterials with good optical quality was overcome

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