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Manijeh Razeghi is recognized for significantly advancing growth and characterization techniques for III-V and II-VI semiconductor structures for photonic and electronic devices. Razeghi is Walter P. Murphy Professor of Electrical and Computer Engineering and Director of the Center for Quantum Devices at Northwestern Univ. She has pioneered the development of epitaxial growth techniques such as metalorganic chemical vapor deposition (MOCVD). She was the first to produce semiconductor lasers at 1.3 μm and 1.55 μm in the InGaAs/InP system, of great importance in optical fiber communications. She has delivered more than 200 invited presentations at major conferences worldwide and is author or co-author of more than 700 papers.