



The Engineering Institute of Canada

2020 Award Citation

EIC Fellow



Nazir Kherani

Nominated by IEEE Canada

Nazir Kherani has made sustained contributions to the field of semiconductor and nanostructured materials and devices with applications in the areas of energy and sensors/detectors during a career in both industry and academia. His fundamental studies have shaped scientific developments in various fields while his practical contributions have advanced Canadian industry.

He has inspired researchers and young entrants to the field of sustainable energy and enhanced the solar industry in Canada and internationally. His research advances in the area of solar energy include record-setting silicon photovoltaic solar cell development, and ushering novel and disruptive integration of energy-efficient spectrally selective coatings in windows for buildings, greenhouses and emerging electric vehicles.

His fundamental research work in passivation and photonic crystals has helped shape scientific direction on the use of high-efficiency ultra-thin flexible silicon solar cells. His recent advances in the field of nano-plasmonics are leading to the development of low cost, rapid, high-sensitivity whole-blood biosensors for point-of-care applications.

Nazir's leadership and contributions have been recognized through the Early Researcher Award, the Engineering Medal in Research and Development, and Fellow of the Canadian Academy of Engineering, American Physical Society, and Royal Society of Arts.

Ladies and gentlemen, and Mr. President, please welcome Nazir Kherani as a Fellow of the Engineering Institute of Canada.