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Electrical Engineering and Computer
Science, Northwestern University
USA



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Biography

- Received the Doctorate Sciences Physiques from the University de Paris, France, in 1980.
- After heading the Exploratory Materials Lab at Thomson-CSF (France) joined Northwestern University, Evanston, IL, as a Walter P. Murphy Professor and Director of the Center for Quantum Devices in Fall 1991, where created the undergraduate and graduate program in solid-state engineering.
- One of the leading scientists in the field of semiconductor science and technology, pioneering in the development and implementation of major modern epitaxial techniques such as MOCVD, VPE, gas MBE, and MOMBE for the growth of entire compositional ranges of III-V compound semiconductors.
- The editorial board of many journals such as Journal of Nanotechnology, and Journal of Nanoscience and Nanotechnology, an Associate Editor of Opto-Electronics Review.
- The International Advisory Board for the Polish Committee of Science, and is an Adjunct Professor at the College of Optical Sciences of the University of Arizona, Tucson, AZ.

- Authored or co-authored more than 1000 papers, more than 30 book chapters, and fifteen books, including the textbooks Technology of Quantum Devices (Springer Science+Business Media, Inc., New York, NY U.S.A. 2010) and Fundamentals of Solid State Engineering, 3rd Edition (Springer Science+Business Media, Inc., New York, NY U.S.A. 2009).
- Two of books, MOCVD Challenge Vol. 1 (IOP Publishing Ltd., Bristol, U.K., 1989) and MOCVD Challenge Vol. 2 (IOP Publishing Ltd., Bristol, U.K., 1995), discuss some of her pioneering work in InP-GaInAsP and GaAs-GaInAsP based systems. The MOCVD Challenge, 2nd Edition (Taylor & Francis/CRC Press, 2010) represents the combined updated version of Volumes 1 and 2.
- Holds 50 U.S. patents and has given more than 1000 invited and plenary talks. Current research interest is in nanoscale optoelectronic quantum devices.
- Dr. Razeghi is a Fellow of MRS, IOP, IEEE, APS, SPIE, OSA, Fellow and Life Member of Society of Women Engineers (SWE), Fellow of the International Engineering Consortium (IEC), and a member of the Electrochemical Society, ACS, AAAS, and the French Academy of Sciences and Technology. Received the IBM Europe Science and Technology Prize in 1987, the Achievement Award from the SWE in 1995, the R.F. Bunshah Award in 2004, and many best paper awards.

Research Interest

- Nanoscale Optoelectronic Quantum Devices.

Latest Publications

- InAs/InAs_{1-x}Sb_x type-II superlattices for high performance long wavelength infrared detection.
- High power operation of $\lambda \sim 5.2\text{--}11\ \mu\text{m}$ strain balanced quantum cascade lasers based on the same material composition.
- Type II Antimonide-Based Superlattices: A One-Dimensional Bulk Semiconductor.
- Type-II Antimonide-based Superlattice Photon Detectors and Focal Plane Arrays
- III-Nitrides-Based Biosensing

Associations & Collaborations

- American Association for the Advancement of Science (AAAS)
- American Physical Society (APS)
- Electrochemical Society
- French Academy of Sciences and Technology
- Fellow of International Engineering Consortium (IEC)
- Fellow of Institute of Electrical and Electronics Engineers (IEEE)
- Fellow of Institute of Physics (IOP)
- Lifetime Fellow Materials Research Society (MRS)
- Fellow of Optical Society of America (OSA)
- Fellow of Society of Photo-Optical Instrumentation Engineers (SPIE)
- Fellow and Life Member of Society of Women Engineers (SWE)

Professional Expertise

- Editor board for the
- Journal of Laser, Optics & Photonics -Omics Group Publications
- Applied Physics A- Springer-Verlag,
- Current Nanoscience- Bentham Science Publishers
- Journal of Nanoscience and Nanotechnology - American Scientific Publishers
- Journal of Nanotechnology - Institute of Physics Publisher
- , Journal of Science, Technology, and Application of Integrated Optics - Kluwer Academic Publishers
- Microelectronics Journal Associate Editor,
- Opto-Electronics Review,
- Polish Opto-Electronics Committee
- International Editorial Advisory Board, Opto-Electronics Review, Polish Opto-Electronics Committee
- International Editorial Advisory Board, The Bulletin PAS (Polish Academy of Sciences) International Advisory Board on Semiconductors, Polish Committee of Science United Nations Expert to Telebras, Brazil International Advisory Board for Sorbonne Paris Cite .

Awards & Honors

- IBM Faculty Award - 2013
- Elected Lifetime Fellow of Materials Research Society (MRS) - 2008
- Elected Fellow of Institute of Electrical and Electronics Engineers (IEEE) - 2005
- Elected Fellow of Institute of Physics (IOP) - 2005
- Elected Fellow of American Physical Society (APS) - 2004
- Elected Fellow of Optical Society of America (OSA) - 2004
- R.F. Bunshah Award from Intal Conference on Metallurgical Coatings and Thin Films - 2004
- Photonics West Optoelectronics 2004 Symposium Best Paper Award - 2004
- Elected Fellow of Optical Society of America(OSA)-2003
- Nominated for Northwestern University McCormick Teacher of the Year Award - 2003
- Elected Fellow of International Engineering Consortium (IEC) - 2003
- Elected Fellow of Society of Photo-Optical Instrumentation Engineers (SPIE)- 2000
- Photonics West Optoelectronics 1998 Symposium Best Paper Award - 1998
- Elected Fellow of Society of Women Engineers - 1995
- Society of Women Engineers (SWE) Achievement Award - 1995
- IBM Europe Science and Technology Prize - 1987



Journal of Laser Optics & Photonics



- Journal of Photonics.
- Journal of Wave theory
- Journal of Optics
- Journal of Lasers
- Signal Crystal





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