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RESEARCH INTERESTS

- Spintronic
- Softmaterials waveguide
- Neural sciences
- Magnetic materials and magnetism

EDUCATIONAL BACKGROUND

- Bachelor Degree (Major), Department of Physics, Nanyang University, Singapore (1967)
- Master Degree (Major), Department of Physics, University of Manitoba, Canada (1971)
- Ph. D Degree (Major), Department of Physics, University of Manitoba, Canada (1973)

WORKING EXPERIENCE

- Lecturer (1976 - 1977), Sr. Lecturer (1977 - 1980) Physics Department, Ahmadu Bello University, Nigeria
- Research Associate, Atomic Energy Canada Ltd, Pinawa, Canada (1980 -1981)
- Lecturer(1981-1982),SrLecturer(1982-1989)Assoc.Professor(1989-1993)Professor(1993-2017), physics Department of Physics, National University of Singapore
- Professor, Tohoku University, Institute of electrical communication, Sendai, Japan (June - November 2000)
- Concurrent Professor, Nanjing University, China (2000 – 2003)

HONORS/AWARDS/GRANTS

- Fellow and Chartered Physicist, Institute of Physics ,UK(2000-present)
- Fellow,Singapore Institute of Physics,Singapore (1989-present)
- National University Singapore Outstanding Researcher Award 2010
- President, Singapore Institute of Physics Singapore (1996 – 2000)
- Vice President, Singapore National Academy of Science (1998 – 2000)

REPRESENTATIVE PUBLICATION

- Co-author a book on “microwave electronics” published by Wiley (2004)
- Tay ZJ, Soh WT and Ong CK “Observation of electromagnetically induced transparency and absorptions in Yttrium Iron Garnet loaded split ring resonator.” *Journal of magnetism and magnetic materials*, 45,235(2018)
- Ma YG, Ong CK, Tyc T and Leonhardt U “An Omnidirectional retroreflector based on the transmutation of dielectric singularities.” *Nature Materials* 8(8),639(2009)
- Wang DH, Goh WC, Ning M and Ong CK “Effect of Ba doping on magnetic, ferroelectric and magnetoelectric properties in multiferroic BiFeO₃ at room temperature” *Applied Physics Letters* 88(21) 212907(2006)
- Liu Y, Chen LF, Tan CY, Liu HJ and Ong CK “Broadband complex permeability characterization of magnetic thin films using shorted microstrip transmission line perturbation” *Review of Scientific Instruments*, 76(6),063911(2005)
- Rao XS and Ong CK “Subwavelength imaging by a left-handed material superlens” *Physical Review E* 68,0676501(2003)
- Lim HS, Ong CK and Ercolessi F “stability of face-centered cubic and icosahedral lead clusters” *Surface Science*, 269,1109(1992)