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Education **:**

2016 Ph.D. Materials Science, University of Wisconsin Madison, USA

2012 M.Ms. Materials Science, University of Wisconsin Madison, USA

2008 M.Sc. Applied Analytical and Inorganic Chemistry, Mahidol University, Thailand

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Field of interest **:**

- Nanotechnology applications for active and intelligent packaging
- Thin film materials for light emitter, detector and sensor applications
- Group IV and III-V photonics for terahertz device applications
- Single- and polycrystalline film characterization by high resolution x-ray diffraction (HRXRD)
    - Thickness and composition determination
    - Reciprocal space mapping
    - Defect analysis

Publications **:**

- Durmaz, H[1].; **Sookchoo, P**[1].; Cui, X.; Jacobson, RB.; Savage, D. E.; Lagally, M. G. and Paiella, R. SiGe Nanomembrane Quantum-Well Infrared Photodetectors. *ACS Photonics* **2016**, 3, 1978–1985.

- Yin, J.; Cui, X.; Wang, X.; **Sookchoo, P**.; Lagally, M.G.; Paiella, R. Flexible nanomembrane photonic-crystal cavities for tensilely strained-germanium light emission. *Appl. Phys. Lett*., **2016**, *108*, 241107-1-5.
- Li, Y.; **Sookchoo, P**.; Cui, X.; Mohr, R.T.; Savage, D.E.; Foote, R.; Jacobson, RB**;** Sánchez-Pérez, J.R., et al. Electronic Transport Properties of Epitaxial Si/SiGe Heterostructures Grown on Single-Crystal SiGe Nanomembranes. *ACS Nano*, **2015**, *9* (5), pp 4891–4899.
- **Sookchoo, P**.; Sudradjat, F. F.; Kiefer, A. M.; Durmaz, H.; Paiella, R.; Lagally, M. G. Strain Engineered SiGe Multiple-Quantum-Well Nanomembranes for Far-Infrared Intersubband Device Applications. *ACS Nano* **2013**, *7* (3), pp 2326–2334.

Conferences **:**

- **Sookchoo, P.***; Durmaz, H.; Jacobson, RB.; Li, Y.; Cui, X.; Paiella, R. and Lagally, M. G. "Strain Engineered Defect-Free SiGe Nanomembranes: Substrates for Epitaxial Growth of SiGe Multiple Quantum Wells", ***Oral presentation***, The 9th International Conference on Silicon Epitaxy & Heterostructures (ICSI-9), May 18-22, **2015** at Montreal, Quebec, Canada.
- **Sookchoo, P.***; Sudradjat, F.F.; Kiefer, A.M.; Durmaz, H.; Paiella, R.; and Lagally, M.G. "Strain Engineered SiGe Nanomembranes: a Defect-Free Substrate for Epitaxial Growth of SiGe Multiple Quantum Wells", ***Oral* presentation**, The 19th American Conference on Crystal Growth and Epitaxy (ACCGE-19), July 21-26, **2013**, Keystone, Colorado USA.
- **Sookchoo, P.**; Sudradjat, F.F.; Kiefer, A.M.; Paiella, R.; and Lagally, M.G. "Growth of Si/SiGe Superlattices on Lattice-matched Membrane Substrates: Improved Sstructure for Group-IV Quantum Cascade Lasers", ***Oral presentation***, Materials Research Society (MRS) Spring Meeting & Exhibit, April 9-13, **2012**, San Francisco, California USA.
- **Sookchoo, P.** and Pdungsap, L. "Ferroelectric Properties of Fe-doped Barium Zirconate Titanate Ceramics Prepared by Auto-combustion Method", ***Oral presentation***, The 5th PERCH Annual Scientific Congress on 6 - 9 May **2007**, Jomtien Palm Beach Resort Pattaya, Chonburi, Thailand.
- **Sookchoo, P.** and Pdungsap, L. "Ferroelectric Properties of Fe-doped Barium Zirconate Titanate Ceramics Prepared by Auto-combustion Method", ***Poster presentation***, 1st MU GRADUATE RESEARCH SYMPOSIUM on 30 - 31 January **2007**, Faculty of Graduate Studies, Mahidol University, Bangkok, Thailand.
- **Sookchoo, P.** and L. Pdungsap, L. "The Dielectric Properties of Barium Zirconate Titanate Ceramics Prepared by Auto-Combustion Method", ***Poster presentation***, The 32$^{nd.}$ Congress on Science and Technology of Thailand on 10 - 12 October **2006**, Queen Sirikit National Convention Center, Bangkok, Thailand.