

Curriculum Vitae

Suejit Pechprasarn (Ph.D.)

Date of Birth 15 February 1985

Nationality Thai (Male)

Work Address 1 Associate Dean for Research, Innovation and International Relations
Faculty of Biomedical Engineering
Rangsit University
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Work Address 2 Department of Electronic and Information Engineering (EIE)
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UNIVERSITY EDUCATION

2013 Ramkhamhaeng University, Thailand
LLB in Thai Law

2012 Institute of Biophysics, Imaging and Optical Science, University of
Nottingham, UK
Ph.D. in Electrical and Electronic Engineering
Thesis title: "Analysis of Sensitivity and Resolution in Plasmonic
Microscopes"

2007 Thammasat University, Thailand
BEng in Electrical Engineering (English Programme) 1st Class Honours
GPA Level

2007 University of Nottingham, UK
BEng in Electronic and Computer Engineering with 1st Class Honours
(85%, 1/95)

WORK EXPERIENCE/EMPLOYMENT HISTORY

Dec 2015 – Present. Lecturer, Biomedical Engineering Programme, Department of Physics, Faculty of Science, Rangsit University, Phatum Thani, Thailand

August 2014 – Present. Research Fellow, Department of Electronic and Information Engineering (EIE), the Hong Kong Polytechnic University, Kowloon, Hong Kong,

I have been offered this position from the Head of Department to work at the University. I see this is as an opportunity to expand my research collaborations; I therefore decided to move from the University of Nottingham to The Hong Kong Polytechnic University. I still maintain a close relationship and actively work on a number of research projects with the University of Nottingham, UK and expand my research collaborations with universities in Asia.

November 2012 – July 2014. Research Fellow, Institute of Biophysics, Imaging and Optical Sciences (IBIOS), Faculty of Engineering, University of Nottingham, UK.

Promoted from Research Assistant to Research Fellow. The expanded role of this position involved with assisting with the supervision of postgraduate research students.

February 2012 – October 2012. Research Assistant, Institute of Biophysics, Imaging and Optical Sciences (IBIOS), Faculty of Engineering, University of Nottingham, UK.

This role has involved with assembling manuscripts and preparing data for presentation. In addition I have prepared and delivered tutorials and classes to undergraduate and postgraduate students at the University.

2009-2011 – Tutor at the TARGET School, Thailand (part-time).

This role involved teaching Mathematics and Physics to high school students.

2007-2009 – Chief Laboratory Demonstrator, Faculty of Engineering, University of Nottingham, UK.

This role involved teaching and demonstrating H62SED Software Engineering Design to undergraduate and postgraduate students

2003-2005 – Tutor, Thammasat University, Thailand.

In this role I delivered lectures in Mathematics and Physics for students at Thammasat University. I also ran problem classes in college physics and Calculus for first year undergraduates.

RESEARCH PROJECTS SUPERVISION

Numbers of students supervised and assisted with supervision at the University of Nottingham:

- Numbers of postgraduate students that I assisted with supervision: 4 students in the areas of Optical Engineering, Rigorous Coupled Wave Analysis (RCWA) Computer Simulation technique, Optical Biosensors, Nanophotonics and Surface Plasmon Resonance (SPR).

- Numbers of undergraduate students supervised for their final year project: 1 in the area of Asymmetrical Surface Plasmon Mode for Biosensing applications.

Numbers of students supervised and assisted with supervision at the Hong Kong Polytechnic University :

- Assisting in supervision of 1 research associate working on ultrasonic sensor.
- Assisting in supervision of 1 visiting lecturer for her training programme at the Hong Kong Polytechnic University working on Surface Plasmons sensor for ultrasonic detection.

- Numbers of postgraduate students and trainees that I assisted in supervision: 4 students in the area of Confocal surface plasmon microscopy, ultrasensitive SPR sensor and Photolithography.

- Numbers of undergraduate students supervised for their final year project: 4 in the area of Surface Plasmon for Biosensing applications, confocal microscopy and confocal surface plasmon microscopy.

ACHIEVEMENTS AND AWARDS

2017 – the National Research Council Award 2016 (Good Thesis Award), “Analysis of sensitivity and resolution in plasmonic microscopes” at the Thailand Inventors’ Day 2017 on February 2, 2017.

2017 – the National Research Council Award 2016 (Good Invention Award), “Widefield Microscope Bolt-on toolkit For Scanning Confocal Microscope Functionality” at the Thailand Inventors’ Day 2017 on February 2, 2017.

2016 – Invitation to write a review paper for Frontiers in Bioscience special edition “Biosensors based nanomaterials and nanodevices” Frontiers in Bioscience is sponsored by Nature Publishing Group.

2016 – Invitation to write a book chapter entitled “Biomedical Optics” for Biomedical Engineering Association Thailand.

2015 – 2017 Research Fellowship Grant from the Hong Kong Polytechnic University.

2014 – Published an article entitled ‘Ultrastable embedded surface plasmon confocal interferometry’ in *Light: Science and Applications (Nature publication)*; it was on the top ten list of the paper that had the highest numbers of download in July-Aug 2014.

2013 – 2014 Excellent Performance Staff at the University of Nottingham for 2013/2014 and 10% pay rise awarded.

2012 – 2013 Excellent Performance Staff at the University of Nottingham for 2012/2013 and 10% pay rise awarded.

2013 – Best Oral Presentation Award. The 2nd Regional Symposium on Biosensors, Biodiagnostics & Biochips (ASEAN+2013). Chiang Rai, Thailand

2010 – Ramkhamhaeng University; Tuition fee scholarship for high academic performance “5G scholarship”.

2007 – University of Nottingham Full International Scholarship (to cover fees and living expenses whilst studying for a PhD in the Faculty of Engineering).

2007 – I completed my degree in Electrical Engineering with 1st Class Honours in Electronic and Computer Engineering and achieved the highest score of the graduating class at both University of Nottingham, UK and Thammasat University, Thailand.

2007 – I was awarded the Peter Johns Prize Award (2006/2007) Outstanding Student and associated scholarship.

2006 – Joint scholarship from Thammasat University, Thailand and the University of Nottingham, UK.

2003-2005 – High Academic Performance Award and associated scholarship from Thammasat University, Thailand.

2003-2005 – English Improvement Award and associated scholarship.

2002 – I was awarded a tuition fee scholarship from the Promotion of Academic Olympiad and Development of Science Education : Computer Science; this scholarship is a highly competitive scholarship for high school students in Thailand.

INVITED TALKS/ CONFERENCE COMMITTEE/ CONFERENCE CHAIR

- (Invited talk) “Understanding surface wave and surface plasmon imaging: through rigorous diffraction theory” 5th EOS Topical Meeting on Advanced Imaging Techniques, 29 July to 02 July 2010, Ramada-Treff Hotel Regina-Titlis, Engelberg, Switzerland.

- (Invited talk) “Surface Plasmon microscopy: resolution vs. sensitivity”; Photonics Global Conference 2010, 14-16 December 2010, Singapore
- (Invited talk) “Confocal surface plasmon microscopy” ; International Symposium on Photoelectronic Detection and Imaging (ISPD), 2013, Bei Jing, China
- (Invited talk) “Confocal surface plasmon microscopy”; Synchrotron Light Research Institute (Public Organization); 26 Dec 2013; Nakhonratchasima Thailand
- (Invited talk) “All about Engineering”; Thammasat University; Twinning Engineering Programmes and Thammasat English Programme of Engineering; Faculty of Engineering; 24 Dec 2013; Pathumthani Thailand
- (Invited public lecture) “Spatial light modulator based surface plasmon microscopy” A public lecture, 25th May 2015, National Metal and Materials Technology Center (MTEC), the National Science and Technology Development Agency (NSTDA) of Thailand on the 25th May 2015.
- (Invited talk) “Sensors for Healthcare : Electronic and communication needs”; 2nd Oct 2015 Biomedical Engineering Programme; Faculty of Science; Rangsit University; Pathumthani Thailand
- (Invited talk/Chair) “Surface wave attenuation Coefficient measurement using Confocal Surface Plasmon microscopy”; the 11th Asia-Pacific Microscopy Conference; 23-27 May 2016, Phuket, Thailand
- (Invited talk/Committee) “Surface Wave Attenuation Coefficient Measurement Using Confocal Surface Plasmon Microscopy”; The 7th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the green innovative society, The Sukosol, Bangkok, Thailand, 23-24 June 2016

RESEARCH EXPERIENCES AND KEY SKILLS

Optics – Theoretical and practical knowledge and experience in optics.

Photonics – Nanoparticle synthesis, laser technology, MEM devices, Nanotechnology fabrication

Ultrasonics – Transducers for high frequency detection and generation

Chemical and Biology – Artificial cell membranes synthesis, Protein binding and binding kinetics

Electronics – Integration of optical hardware with electronic hardware and the writing of the associated computer controlled experiments.

Computing Skills – I am able to use Windows, Linux, Macintosh, Microsoft Office, AutoCAD, Adobe Illustrator, Photoshop, Assembly, C/C++/C#, Pascal, Basic, JAVA, MATLAB, Labview, COMSOL and ADS. I also have skills in electromagnetic wave simulation techniques such as Finite element method, FDTD, Transmission line method, Rigorous diffraction theory and Wave momentum theory. I also have extensive experience in parallel computing calculations.

Other Key Skills - I have skills in problem solving, data presentation and time management. I am able to work effectively both under my own initiative and in a team environment.

I am fluent in English and Thai and I have a basic command of Mandarin, French, German and Japanese.

PROFESSIONAL ASSOCIATION : I am a peer reviewer for Optical Society of America (OSA), Springer and Nature Publishing Group, which includes high impact factor publications, such as *Optics Express*, *Optics Letters*, *Biomedical Optics Express*, *Plasmonics* and *Scientific Reports*.

RESEARCH INTERESTS:

1. Optical microscopy and spectroscopy
2. 3D imaging and visualization
3. Image Processing
4. Biomedical Optics
5. Biosensors and MEM devices
6. Ultrasonic generation, detection and microscopy
7. Infrared and Mid Infrared spectroscopy and imaging
8. Nanophotonics, plasmonics, metamaterials;
9. Large-area nano-fabrication/nanomanufacturing;
10. Develop software to model electromagnetic effects using Finite element method (FEM), Finite-Difference Time-Domain (FDTD), Transmission line modelling method (TLM), Rigorous diffraction theory (RCWA) and Wave momentum theory.

SELECTED PUBLICATIONS, CONFERENCE PROCEEDINGS AND BOOKS

Journal Publications

1. Zhang B, Pechprasarn S, Zhang J, Somekh MG. 2012. “Confocal surface plasmon microscopy with pupil function engineering”. *Opt. Express* 20:7388-97

(Selected by editor : *Virtual Journal for Biomedical Optics. Volume 7 5:7388*)

2. **Pechprasarn S** and Somekh MG. 2012. "Surface plasmon microscopy: resolution, sensitivity and crosstalk", *Journal of Microscopy*. doi: 10.1111/j.1365-2818.2012.03617.x
3. Zhang B, **Pechprasarn S**, Somekh MG. 2012. "Surface plasmon microscopic sensing with beam profile modulation". *Opt. Express* 20:28039-48
(Selected by editor : *Virtual Journal for Biomedical Optics. Volume 8 1:28309*)
4. Zhang B, **Pechprasarn S**, Somekh MG. 2013. "Quantitative plasmonic measurements using phase stepping confocal interferometry". *Opt. Express* 21(9): 11523-11535
(Selected by editor : *Virtual Journal for Biomedical Optics. Volume 8 6:11523*)
5. **Pechprasarn S** and Somekh MG 2014. "Detection limits of surface plasmon microscopy". *Biomedical Optics Express*, 5 6:1744-56
<http://dx.doi.org/10.1364/BOE.5.001744>
6. **Pechprasarn S**, Zhang B, Albutt D, Zhang J, Somekh M. "Ultrastable embedded surface plasmon confocal interferometry". *Light: Science and Applications*. 2014;3.
7. Tan, H.-M., **Pechprasarn, S.**, Zhang, J., Pitter, M. C. & Somekh, M. G. 2016. "High Resolution Quantitative Angle-Scanning Widefield Surface Plasmon Microscopy". *Scientific Reports* 6, 20195, doi:10.1038/srep20195.
8. Chow WK T, **Pechprasarn S**, Meng JK, and Somekh M. G., 2016 , "Single shot embedded surface plasmon microscopy with vortex illumination," *Opt. Express* 24, 10797-10805
9. **Pechprasarn S**, Larkthanakhachon S., Zheng GG, Lei DY, Shen H and Somekh MG, "Grating coupled Otto configuration for Hybridized mode phonons excitation in the mid-infrared spectral range" (Accepted by Optics Express)
10. **Pechprasarn S**, Chow WK, Albutt D., See C.W. and Somekh MG. "Embedded interferometry with controllable reference beam" (Submitted to Optics Letters)
11. **Pechprasarn S**, Chow WK, Hong S. and Somekh MG. "An Internally Calibrated Method For Measurement Of Surface Wave Attenuation Coefficients Using Confocal Surface Plasmon Microscopy" (Submitted to Light Science and Application)
12. **Pechprasarn, S.**, et al. "Grating-coupled Otto configuration for hybridized surface phonon polariton excitation for local refractive index sensitivity enhancement." *Optics Express* 24.17 (2016): 19517-19530.

Journal Publications in preparation

1. **Pechprasarn S** and Somekh MG. “Resolution and sensitivity of Radial polarization in plasmonic microscopes” (In preparation for publication)
2. (Invited) **Pechprasarn S** and Somekh MG. “Surface Plasmons Resonance Review” (In preparation for publication for Frontiers in Bioscience)
3. Shen MQ., Meng JK., Larkthanakhachon S., **Pechprasarn S.**, Somekh M.G., Zhang YP. and See WC. “Ultra-sensitive biosensor using double-metallic-layer-waveguide structure”

Conference Paper/Proceedings

1. Zhang J, Huang Y, **Pechprasarn S**, Pitter MC, Somekh MG, “Thin gold films as contrast agents and their potential applications”; 22-26 May 2011 ICM—International Conference Centre Munich, Germany European Conferences on Biomedical Optics.
2. (Invited) **Pechprasarn S**, Smith RJ, Pitter MC, Somekh MG, “Understanding surface wave and surface plasmon imaging: through rigorous diffraction theory” 5th EOS Topical Meeting on Advanced Imaging Techniques, 29 July to 02 July 2010, Ramada-Treff Hotel Regina-Titlis, Engelberg, Switzerland.
3. (Invited) Somekh MG and **Pechprasarn S**; “Surface Plasmon microscopy: resolution vs. sensitivity”; Photonics Global Conference 2010, 14-16 December 2010, Singapore
4. **Pechprasarn S** and Somekh MG; “Analysing surface plasmon microscopy with rigorous diffraction theory”; Functional Optical Imaging (FOI), 2011, Ningbo, China. 978-1-4673-0451-1/11 IEEE
5. Zhang B, **Pechprasarn S** and Somekh MG; “Confocal surface plasmon resonance microscopy with pupil function engineering” ; Functional Optical Imaging (FOI), 2011, Ningbo, China. 978-1-4673-0451-1/11 2011 IEEE
6. (Invited) **Pechprasarn S** and Somekh MG; “Confocal surface plasmon microscopy” ; International Symposium on Photoelectronic Detection and Imaging (ISPD), 2013, Bei Jing, China
7. **Pechprasarn S** and Somekh MG; “Ultrastable embedded surface plasmon confocal interferometry” ; International Symposium on Photoelectronic Detection and Imaging (ISPD), 2013, Bei Jing, China
8. (Best paper award) **Pechprasarn S**, Zhang B, Albutt D, Zhang J and Somekh MG. “Ultrastable embedded surface plasmon confocal interferometry”; The 2nd Regional Symposium on Biosensors, Biodiagnostics & Biochips (ASEAN+2013). Chiang Rai, Thailand

9. **Pechprasarn S** and Somekh MG; “Confocal surface plasmon interferometry : An approach for ultrastable biological measurement” Optics Within Life Sciences 2014 (OWLS 2014),10-12 June 2014, the University of Nottingham, Ningbo Campus, China
10. (Invited) Somekh M.G.,**Pechprasarn S**,Zhang J. and Mather M, "Evanescent Wave Microscopy for Cellular and Biomolecular Characterisation", Electromagnetics Research Symposium Abstracts, Guangzhou, China, August 25–28, 2014
11. **Pechprasarn S**, Chow WK and Somekh MG; “Sensitivity Enhanced Defocused Confocal Surface Plasmon Microscope Using Beam Profile Modulation” the 8th ASEAN Microscopy Conference (AMC8) and the 32nd Annual Conference and Meeting of The Microscopy Society of Thailand (MST32), 28-30 Jan 2015, Kasetsart University, Kamphaeng Saen Campus, Nakhon Pathom, Thailand
12. **Pechprasarn S**, Chow WK, Meng JK and Somekh MG; “Confocal surface plasmon microscopy with vortex beam illumination for biosensing application” Asia Communications and Photonics Conference 2015, Nov. 19-23, 2015, Hong Kong Conference and Exhibition Centre, Hong Kong
13. **Pechprasarn S**, Chow WK, Meng JK and Somekh MG; “Confocal surface plasmon microscopy with vortex beam illumination for biosensing application” the 8th Biomedical Engineering International Conference (BMEiCON2015), November 25-27, 2015, Pattaya, Thailand
14. (Invited) Somekh M.G.,**Pechprasarn S**, Hong S, Chow WK, Meng JK, “New avenues for confocal surface plasmon microscopy”, Plasmonics in Biology and Medicine XIII, 15 - 16 February 2016, The Moscone Center San Francisco, California, United States
15. (Invited/Chair) **Pechprasarn S**, Chow WK, and Somekh M.G., “Surface Wave Attenuation Coefficient Measurement Using Confocal Surface Plasmon Microscopy”, APMC11 / MST33 / AAT39 Conference, May 23-27, 2016, Phuket, Thailand, ISBN : 978-616-279-846-7
16. (Invited) Somekh M.G., **Pechprasarn S** and Chow WK., “Evanescent Wave and Confocal Microscopy”, APMC11 / MST33 / AAT39 Conference, May 23-27, 2016, Phuket, Thailand, ISBN : 978-616-279-846-7
17. Shen MQ., Meng JK., Larkthanakhachon S., **Pechprasarn S**, Somekh M.G., Zhang YP. and See WC., “Ultra-sensitive biosensor using doublemetallic-layer-waveguide structure” , APMC11 / MST33 / AAT39 Conference, May 23-27, 2016, Phuket, Thailand, ISBN : 978-616-279-846-7

18. Chow WK., **Pechprasarn S.**, Somekh M.G., “Embedded interferometry with dynamic reference beam”, APMC11 / MST33 / AAT39 Conference, May 23-27, 2016, Phuket, Thailand, ISBN : 978-616-279-846-7
19. Larkthanakhachon S., **Pechprasarn S.** and Somekh M.G., “MEMS Waveguide Sensor for Photoacoustic Detection”, APMC11 / MST33 / AAT39 Conference, May 23-27, 2016, Phuket, Thailand, ISBN : 978-616-279-846-7
20. Boonyagul S., Ittipornnuson K. and **Pechprasarn S.**, “Scanning Confocal Microscope Using Digital Micromirror Device (DMD)” , APMC11 / MST33 / AAT39 Conference, May 23-27, 2016, Phuket, Thailand, ISBN : 978-616-279-846-7
21. (*Invited/committee*) **Pechprasarn S.**, Chow WK, and Somekh M.G., “Surface Wave Attenuation Coefficient Measurement Using Confocal Surface Plasmon Microscopy”, The 7th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the green innovative society, The Sukosol, Bangkok, Thailand, 23-24 June 2016
22. (Submitted) **Pechprasarn S.**, Kawilo P., Somjaiprasert S., Suvarnaphaet P, Boonyagul S, Albutt N. and Somekh M.G. “A low cost Time-coded Confocal Microscope”, The 7th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the green innovative society, The Sukosol, Bangkok, Thailand, 23-24 June 2016
23. (Submitted) Larkthanakhachon S, **Pechprasarn S.**, Sangworasil M, , Albutt N. and Somekh M.G., “Theoretical Investigation of Surface Plasmon Resonance (SPR)-based Acoustic Sensor”, The 7th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the green innovative society, The Sukosol, Bangkok, Thailand, 23-24 June 2016
24. (Submitted) **Pechprasarn S.**, Chow WK, Ittipornnuson K, Albutt N. and Somekh M.G. “Confocal Surface Plasmon Embedded Interferometric Microscope : A Brief Review”, The 7th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the green innovative society, The Sukosol, Bangkok, Thailand, 23-24 June 2016
25. (Submitted) **Pechprasarn S.**, Panlomso A,, Aiam-um A,, Suvarnaphaet P., Boonyagul S,, Albutt N.and Somekh M.G.”Rigorous coupled wave analysis for plasmonic nanoparticles”, The 7th RMUTP International Conference on Science, Technology and

Innovation for Sustainable Development: Challenges towards the green innovative society, The Sukosol, Bangkok, Thailand, 23-24 June 2016

26. (Submitted) Chen W., **Pechprasarn S.** and Somekh M.G, “Back focal plane confocal ptychography”, The 7th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the green innovative society, The Sukosol, Bangkok, Thailand, 23-24 June 2016
27. Albutt N., **Pechprasarn S.**, Wannasuk R. and Sareein T, “Electrical impedance properties of Y_2NiMnO_6 ceramics for dc bias at atmosphere” , The 7th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the green innovative society, The Sukosol, Bangkok, Thailand, 23-24 June 2016
28. Albutt N., **Pechprasarn S.**, Damkoengsunthorn P. and Sareein T, “The Giant dielectric constant of Y_2NiMnO_6 for DC bias” The 7th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the green innovative society, The Sukosol, Bangkok, Thailand, 23-24 June 2016
29. Albutt N., **Pechprasarn S.**, Chobdee P. and Sareein T, “Study of dielectric permittivity of Y_2NiMnO_6 for DC bias at various temperature”, The 7th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the green innovative society, The Sukosol, Bangkok, Thailand, 23-24 June 2016
30. Sawekwiharee S., **Pechprasarn S.** and Albutt N., “Adsorption of $Pb(NO_3)_2$ solution from mangosteen charcoal powder”, The 7th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the green innovative society, The Sukosol, Bangkok, Thailand, 23-24 June 2016
31. Sawekwiharee S., **Pechprasarn S.**, Kuttiyawong A. and Albutt N. “Investigation of performance for pb(ii) adsorbents from mangosteen charcoal”, The 7th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the green innovative society, The Sukosol, Bangkok, Thailand, 23-24 June 2016
32. Albutt N., **Pechprasarn S.**, and Sareein T. “Influence of currents and electric fields for YNMO ceramics”, The 7th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the green innovative society, The Sukosol, Bangkok, Thailand, 23-24 June 2016

33. Albutt N. and **Pechprasarn S.**, “Predicting the UV spectrum of Oligodeoxynucleotide by 2D Matlab” , The 7th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the green innovative society, The Sukosol, Bangkok, Thailand, 23-24 June 2016
34. **Pechprasarn, S.**, Larkthanakhachon, S., Zheng, G., Shen, H., Lei, D. Y., & Somekh, M. G. (2016). Grating-coupled Otto configuration for hybridized surface phonon polariton excitation for local refractive index sensitivity enhancement. *Optics Express*, 24(17), 19517-19530.
35. **Pechprasarn, S.**, Suvarnaphaet, P., Kaewsonthaya, L., Thipla, K., Ittipornnuson, K. & Albutt, N. (2016). *Performance characterization of aspheric polymer lens formed by gravity and surface Tension a high magnification portable microscope for smartphone and tablet*, The 9th Biomedical Engineering International Conference, Luang Prabang, Laos, 7-9 December, 2016.
36. Sangworasil, M., **Pechprasarn, S.**, Larkthanakhachon, S., Ittipornnuson, K., Suvarnaphaet, P. & Albutt, N. (2016) *Investigation on feasibility of using surface plasmons resonance (SPR) sensor for ultrasonic detection*, The 9th Biomedical Engineering International Conference, Luang Prabang, Laos, 7-9 December, 2016.
37. Thongpance, N., **Pechprasarn, S.**, Ittipornnuson, K., Kulikhandan, P., Pimonsakonwong, P., Chada, J., Chobdee, P., Suvarnaphaet, P. & Albutt, N. (2016) *Ergonomic add-on seat for wheelchair users*, The 9th Biomedical Engineering International Conference, Luang Prabang, Laos, 7-9 December, 2016.

Books/Book chapters

1. (Invited) **Pechprasarn S.**, “Analysis of Sensitivity and Resolution in Plasmonic Microscopes”, Lambert, ISBN 13 : 978-3-659-42296-6
2. (Invited) Somekh MG and **Pechprasarn S.**, “Surface plasmonic microscopy”, a chapter in Handbook of Photonics in Biomedical Engineering ISBN 13 : 978-94-007-5051-7
3. **Pechprasarn S.**, “Optical Surface Wave Microscopy”, Rangsit University, ISBN 978-616-7687-82-7
4. (Invited) **Pechprasarn S.**, “Biomedical optics” (Submitted to Biomedical Engineering Association Thailand)
5. **Pechprasarn S.**, “Basic Optical Microscopy Instrumentation” (A book to be published by Rangsit University, Thailand)

