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Curriculum Vitae



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Other (WhatsApp, Line, WeChat):

Education Background:

- 1998 Ph.D. (Molecular Chemistry) Osaka University Japan
- 1995 M. Eng. (Applied Chemistry) Osaka University Japan
- 1984 B.Sc. (Chemistry) ChiangMai University Thailand

REMARK: Please send it in PDF format to secretariat.

Expertise / Research Areas (identified by keywords):

- September 1991 – December 1991; Training in Polymer Materials and Technology at Plastic Engineering Department, Osaka Municipal Technical Research Institute, Osaka, JAPAN.
- January 1993 – March 1993; Research student in Professor Masakatsu Nomura Laboratory, Department of Applied Chemistry, Faculty of Engineering, Osaka University, Suita, Osaka, JAPAN.
- April 1993 – March 1995; Master of Engineering in Department of Applied Chemistry, Faculty of Engineering, Osaka University, Suita, Osaka, JAPAN
- April 1995 – March 1998; Ph.D. in Engineering in Department of Molecular Chemistry, Faculty of Engineering, Osaka University, Suita , Osaka, JAPAN.
- Dissertation: Studies on Substitution Reactions of Aromatic Compounds Catalyzed or Promoted by Metal Salts
- May 1999 – August 1999; STA Post-Doctoral Research Fellowship in Department of Organic Materials, Osaka National Research Institute, AIST, Ministry of International Trade and Industry, JAPAN.
- Research Themes: Synthesis and Characterization of Biodegradable Polymers and the Polymer Recycle.
- August 1999 – March 2000; NEDO Post-Doctoral Research Fellowship in Department of Organic Materials, Osaka National Research Institute, AIST, Ministry of International Trade and Industry, JAPAN.
- Research Themes: Synthesis and Characterization of Molecular Imprinting
- April 2000 – March 2001; ITIT Invitation Professor Fellowship Program in Department of Organic Materials, Osaka National Research Institute, AIST, Ministry of International Trade and Industry, JAPAN.
- Research Themes: Synthesis and Characterization of Biodegradable Polymers and the Polymer Recycle.
- January 2002 – February 2003; Alexander von Humboldt Research Fellow in Department of Organic Chemistry, Bochum University, Bochum, GERMANY.
- Research Themes: Synthesis of Nanosized pi-Conjugated Compounds

Expertise / Research Areas (identified by keywords):

- January 2005 – March 2005; Visiting Professor at Institute of Advanced Energy, Kyoto University, Kyoto, JAPAN.
- Research Themes: Synthesis and Characterization of Composite Nano-structures for Photo-electrochemical Functional Materials
- April 1986 – Present; Lecturer in Department of Materials and Metallurgical Engineering, Faculty of Engineering, Rajamangala University of Technology Thanyaburi, Ministry of Education, THAILAND.
- Research Themes: Synthesis and Characterization of Biodegradable Polymers and the Polymer Recycle.
- June 2001 – Present; Associate Dean of Faculty of Engineering, Research and Development Division, Rajamangala University of Technology Thanyaburi, Ministry of Education, THAILAND.
- October 2005 – 2006; Director of Institute of Research and Development, Rajamangala University of Technology Thanyaburi, Ministry of Education, THAILAND.
- February 2006 – 2010; Dean of Faculty of Science and Technology, Rajamangala University of Technology Thanyaburi, Ministry of Education, THAILAND.
- February 2010 – 2013; Dean of Faculty of Engineering, Rajamangala University of Technology Thanyaburi, Ministry of Education, THAILAND.
- February 2013 – 2019; Vice President, Rajamangala University of Technology Thanyaburi, Ministry of Education, THAILAND.
- January 2020 – present: President, Rajamangala University of Technology Thanyaburi, Ministry of Education, THAILAND.

Engagement (networks):

- Universiti Sultan Zainal Abidin, Malaysia
- Ho Chi Minh University of Technology and Education, Vietnam
- National Institute of Technology, Gifu College, Japan

Engagement (networks):

- National Pingtung University of Science and Technology, Taiwan
- Organic Scientific LLC., United states of America
- Food Technology, Denmark Technology Institute, Denmark
- School of Engineering, Utsunomiya University, Japan

Publications:

Conference

1. **Pivsa-Art, S**, Hiroyuki H. (2004): “Preparation of Polymer Blend between Polycarbonate and Polycarbonate Oligomer” Japan Society of Polymer Processing Symposium, November 23-24, 2004, Kyoto University, Kasura Campus, Japan.
2. Munmung, W., **Pivsa-Art, S.**, Yoshikawa, S., Muchjjajib, S. (2005): “Synthesis and Characterization of Hydroxyapatite / Poly-L-Lactide Composite Biomaterials” The 3rd Eco-Energy and Materials Science and Engineering Symposium (EMSES), April 6-9, 2005, Lotus Phang San Kaew, Chiangmai, Thailand.
3. Pivsa-Art, W. and **Pivsa-Art, S.**, “Preparation and Characterization of Solution Cast PVA/Copolyester Blended Films” The 5th Eco-Energy and Materials Science and Engineering Symposium (EMSES), November 21-24, 2007, Asia Pattaya Hotel, Pattaya, Thailand.
4. Pivsa-Art, W., Seetha, A., Meetum, J., Chaikae, C., **Pivsa-Art, S.** (2008): “Study of Extraction of Phorbol Ester from Jatropha Oil” The 6th Eco-Energy and Materials Science and Engineering Symposium (EMSES), May 25-27, 2008, Kyoto University Clock Tower Centennial Hall, Kyoto, Japan.
5. Pivsa-Art, W., Saesin, D., Mongkonporn, C., Pollao, P., and **Pivsa-Art, S.**, “Production Oil from Plastics Waste”, Seminar Document of the 2nd Conference on Technology Transfer of Construction Materials, Environment and Preserving the Energy by Mean of Self-Sufficiency Economic, July 28-30, 2008, Rajamangala University of Technology Thanyaburi, Thailand.
6. Pivsa-Art, W., Saesin, D., Mongkonporn, C., Pollao, P., and **Pivsa-Art, S.**, “Pyrolysis of Polyethylene and Polypropylene Packaging Wastes” 5th International Conference on “Combustion, Incineration/Pyrolysis and Emission Control (i-CIPEC 2008), December 16-19, 2008, Chiang Mai, Thailand.

Publications:

7. W. Pivsa-Art, A. Keryindee, N. Kasemsook, U. Sagat and **S. Pivsa-Art.** , Preparation of Polymer Blends between Poly(3-hydroxybutyrate), (PHB) and Poly(butylene succinate), (PBS) for Bioplastic Industrial Applications” 7th Eco-Energy and Materials Science and Engineering Symposium, November 17-20, 2009, Holiday Inn Chiang Mai Hotel, Chiang Mai, Thailand.
8. Weraporn Pivsa-Art, **Somma Pivsa-Art**, Vitchayut Asavapakuna, Arun Phukringsri and Nongyao Khuanpech. “Preparation of non-PVC Materials for Synthetic Leathers Industry”. Thailand Research Symposium 2009, 26-30 August 2009, Bangkok Convention Center central world, Ratchaprasong, Bangkok, Thailand.
9. **Somma Pivsa-Art**, Weraporn Pivsa-Art, Pisan Janpra-ob. “Development of Polymer Blends for Hard-Type Sport Shoes Bases Industry”. Thailand Research Symposium 2009, 26-30 August 2009, Bangkok Convention Center central world, Ratchaprasong, Bangkok, Thailand.
10. **Somma Pivsa-Art**, Weraporn Pivsa-Art, Nattacha Phetyim, Jumlong Srisompong, Sarawoot Manoharn and Sinenad Jumnonphol. “Production Of Fuel Oil from Computer Keyboard Wastes” The 1st National Energy Congress, 18-19 February 2010, Bangkok International Trade and Exhibition Centre, Bangna, Thailand.
11. **Somma Pivsa-Art**, Nunluthai Suddai, Jintana Khumpradit, Auyporn Buakaw and Weraporn Pivsa-Art. (2010): “Development of Polymer Blends of Poly(lactic acid) and Poly(3-hydroxybutyrate) using Polyethylene Glycol as Coupling Agent for packaging applications” The 8th Eco-Energy and Materials Science and Engineering Symposium (EMSES), August 19-21, 2010, Obaku Plaza, Uji, Kyoto, Japan.
12. **Somma Pivsa-Art**, Chantip Chamnontip, Montip Losuriyon, Amnoy Lapkasamsuk, Weraporn Pivsa-Art, and Sigto Sakulkamruthai. “ Synthesis of Biodegradable Plastics Polylactic Acid by Direct Condensation Polymerization”. Thailand Research Symposium 2010, 26-30 August 2010, Bangkok Convention Center central world, Ratchaprasong, Bangkok, Thailand.
13. Sommai Pivsa-Art, Jaradsri Khowong, Wanlapa Fungfuang, Supatra Chitarak and Weraporn Pivsa-Art. “Development of Thermal Stability of Non-PVC Materials from Natural Rubber Latex in Dip-Molding Process”. 2nd Rajamangala University of Technology Thanyaburi International Conference (2nd RMUTIC), 24-26 November 2010, Convention Center, Chulabhorn Research Institute, Bangkok, Thailand.

Publications:

14. Weraporn Pivsa-Art, Amorn Chaiyasat, **Somma Pivsa-Art**, Hideki Yamane and Hitomi Ohara. Preparation of Polymer Blends Between Poly(lactic acid) and Poly(butylene adipate-co-terephthalate) and Biodegradable Polymers as Compatibilizers. **10th Eco-Energy and Materials Science and Engineering Symposium**, Ubon ratchathani, Thailand, December 5-8. 2012.
15. **Somma Pivsa-Art**, Supaphorn Thumsorn, Sorapong Pavasupree, Narongchai O-Charoen, Weraporn Pivsa-Art, Hideki Yamane and Hitomi Ohara. Effect of Additive on Crystallization and Mechanical Properties of Polymer Blends of Poly(lactic acid) and Poly[(butylene succinate)-co-adipate]. **10th Eco-Energy and Materials Science and Engineering Symposium**, Ubon ratchathani, Thailand, December 5-8. 2012.
16. Sumonman Niamlang, Weraporn Pivsa-Art, Nutchapon Santipatee, Supawat Watcharasuwanseree, Tossamon Wongbong and **Somma Pivsa-Art**. Kinetic Study of Poly(L-lactic acid) Pre-polymers Synthesis in a 2-Steps Direct Polycondensation Process. 10th Eco-Energy and Materials Science and Engineering Symposium, Ubon ratchathani, Thailand, December 5-8. 2012.
17. Rutchaneekorn Wongpajan, Weraporn Pivsa-Art, Thikanda Tong-ngok, Supansa Junngam, **Somma Pivsa-Art**, Hideki Yamane and Hitomi Ohara. Synthesis of Poly(D-lactic acid) Using a 2-Steps Direct Polycondensation Process. **10th Eco-Energy and Materials Science and Engineering Symposium**, Ubon ratchathani, Thailand, December 5-8. 2012.
18. **S. Pivsa-Art**, S. Mathurosemontri, R. Wongpajan and S. Thumsorn. PREPARATION OF COMPOSITES OF POLY(LACTIC ACID) AND POLY(BUTYLENE SUCCINATE-CO-ADIPATE) REINFORCED WITH JUTE FIBRE. 28 th Proceedings of the Polymer Processing Society, December 11-15, 2012, Pattaya (Thailand).
19. Weraporn Pivsa-Art, Supaphorn Thumsorn, **Somma Pivsa-Art**, Juraiwan Ratanapisit. Mechanical Properties and Crystallization of Talc Filled Poly(lactic acid)/Poly(butylenes succinate) Blend Composites. Antec 2013, Conference and Tradeshow, April 21-24, Duke Energy Convention Center, Cincinnati, Ohio, U.S.A.
20. **Somma Pivsa-Art**. Effect of Poly(Butylene Adipate- Co- Terephthalate) Contents on Crystallization and Mechanical Properties of Polymer Blends of Poly(Lactic Acid) and Poly[(Butylene Succinate) - Co- Adipate]. Antec 2013, Conference and Tradeshow, April 21-24, Duke Energy Convention Center, Cincinnati, Ohio, U.S.A.
21. **Somma Pivsa-Art**. Preparation and Biodegradability Study of Polymer Blends of Poly(Lactic Acid) and Poly[(R)-3-Hydroxybutylate-co-(R)- 3-Hydroxyvaleratate]. Antec 2013, Conference and Tradeshow, April 21-24, Duke Energy Convention Center, Cincinnati, Ohio, U.S.A.

Publications:

22. **Somma Pivsa-Art**, Sutthiphon Thanabat, Gidsadakorn Phasuk and Tatee Bumrungsuk. Improvement of Thermal Stability of Plastisol Dip Molding Products. Antec 2014, April 28-30, Rio All-Suites Hotel, Las Vegas, U.S.A.
23. **Somma Pivsa-Art**, Sumonman Niamlang, Weraporn Pivsa-Art, Nutchapon Santipatee, Tossamon Wongborh, Sorapong Pavasupree, Kiyooki Ishimoto, Hitomi Ohara. Scale-Up of Polymerization Process of Biodegradable Polymer Poly (lactic acid) Synthesis Using Direct Polycondensation Method. International Symposium on the Fusion Technologies 2014 (ISFT2014) Jeonju, S.KOREA 30 July-3 August, 2014
24. **Somma Pivsa-Art**, Jutamas Kord-Sa-Ard, Wanida Sijong, Weraporn Pivsa-Art, Hitomi Ohara, and Hideki Yamane. Biodegradation of Micro-braided Yarn in Landfilled. **12th Eco-Energy and Materials Science and Engineering** Symposium, Krabi, Thailand, June 11-14, 2015.
25. Weraporn Pivsa-Art, Sumonman Nuangrang, **Somma Pivsa-Art**, Rirlada Sirisangsawang. Synthesis of Stereocomplex Poly(lactic acid) From L- and D-Lactic Acid Oligomers. **12th Eco-Energy and Materials Science and Engineering** Symposium, Krabi, Thailand, June 11-14, 2015.
26. **Somma Pivsa-Art**, Jutamas Kord-Sa-Ard, Weraporn Pivsa-Art, Rutchaneekorn Wongpajan, Hitomi Ohara, and Hideki Yamane. Effect of Compatibilizer on PLA/PP Dry Blend for Injection Molding. **12th Eco-Energy and Materials Science and Engineering** Symposium, Krabi, Thailand, June 11-14, 2015.
27. **Somma PIVSA-ART**, Nichanan PHANSROY, Hitomi OHARA. Biodegradable Copolyesteramides of L-Lactic Acid and ϵ -Caprolactam Oligomers. 5th International Conference on Bio-based Polymers (ICBP2015), June 24 – 27, 2015, Singapore.
28. **Somma Pivsa-Art**, Supakij Suttiruengwong. Development of Biobased and Biodegradable Polymers for Packaging in Thailand. International Packaging Seminar 2015, Tokyo University, Tokyo, Japan, July 1-3, 2015.
29. **Somma Pivsa-Art**, Natee Srisawat, Rirlada Sirisangsawang and Weraporn Pivsa-Art .
Biodegradable Composite Braided Yarn Reinforced With Natural Fibers. Thailand Research Expo 2015, Centara Grand & Bangkok Convention Centre at Central World, Bangkok, Thailand, August 16 to 20, 2015.

Publications:

30. **Sommai Pivsa-Art**, Narongchai O-Charoen, Sorapong Pavasupree, Weraporn Pivsa-Art, Rutchaneekorn Wongpajan and Jutamas Kord-Sa-Ard. Cosmetic Packaging from Poly (lactic acid) and Polypropylene Using Injection Molding Process. Thailand Research Expo 2015, Centara Grand & Bangkok Convention Centre at Central World, Bangkok, Thailand, August 16 to 20, 2015.
31. **S. Pivsa-Art**, W. Pivsa-Art, H. Yamane and H. Ohara. Biodegradable Polymer Composite of Poly(lactic acid) blends and Natural Fibers. Asian Workshop on Polymer Processing 2015 (AWPP2015), NUS University Town™ (UTown®), National University of Singapore (NUS), 1-4 December 2015.
32. Prapudsorn Wannid, Weraporn Pivsa-Art, Nanjaporn Roungpaisan, Natee Srisawad, Takanori Negoro and **Sommai Pivsa-Art**. Effect of PEG plasticizer on PLA nonwoven. 13th Eco-Energy and Materials Science and Engineering Symposium, Udonthani, Thailand, 1-4 December 2016.
33. Atitiya Wongkorn, Weraporn Pivsa-Art, Nanjaporn Roungpaisan, Suchalinee Mathurosemontri, Toshikazu Umemura, Hiroyuki Hamada and **Sommai Pivsa-Art**. Effect of Oxyethylene co-Monomer on POM/PLA Multifilament. 13th Eco-Energy and Materials Science and Engineering Symposium, Udonthani, Thailand, 1-4 December 2016.
34. Atitiya Wongkorn, Weraporn Pivsa-Art, Nanjaporn Roungpaisan, Toshikazu Umemura, Hiroyuki Hamada and **Sommai Pivsa-Art**. Biodegradable POM/PLA Multifilament for Fishing String. 1st International Symposium on Application of High-voltage, Plasmas & Micro/Nano Bubbles to Agriculture and Aquaculture (ISHPMNB 2017), 5-6 January 2017.
35. Weraporn Pivsa-Art, Narayut Thitawiriyo, Chitaya Watsing, Chaipipat Muanmuang, Kraiwit Sopromin, Komsan Sunyikhan, Prapudsorn Wannid, Atitiya Wongkorn and **Sommai Pivsa-Art**. Determination of Formaldehyde Content in Vegetable and Squid. 1st International Symposium on Application of High-voltage, Plasmas & Micro/Nano Bubbles to Agriculture and Aquaculture (ISHPMNB 2017), 5-6 January 2017.
36. Prapudsorn Wannid, Weraporn Pivsa-Art, Natee Srisawad, Takanori Negoro and **Sommai Pivsa-Art**. The Secondary Backing Part of Green Carpet from PLA Nonwoven. International Polymer Conference of Thailand (PCT-7), Amari Watergate Hotel, Bangkok, Thailand, June 1 - 2, 2017.
37. Komson Sunyikhan, Nanjaporn Roungpaisan, Natee Srisawad, Takanori Nagoro, **Sommai Pivsa-Art**, Weraporn Pivsa-Art. Effect of Winding Speed on Property of Recycled Poly(ethylene Terephthalate) (RPET) Fiber. International Polymer Conference of Thailand (PCT-7), Amari Watergate Hotel, Bangkok, Thailand, June 1 - 2, 2017.

Publications:

38. Atitiya Wongkorn, Weraporn Pivsa-Art, Nanjaporn Roungpaisan, Suchalinee Mathurosemontri, Toshikazu Umemura, Hiroyuki Hamada and **Somma Pivsa-Art**. Effect of PLA Grade and Tensile Test Methods on Tensile Property POM/PLA Multifilament. International Polymer Conference of Thailand (PCT-7), Amari Watergate Hotel, Bangkok, Thailand, June 1 - 2, 2017.
39. Prapudsorn Wannid, Weraporn Pivsa-Art, Nanjaporn Roungpaisan, Takanori Negoro and **Somma Pivsa-Art**. Effect of Air Jet Pressure on Carpet Backing Fabrication Process. IE Network Conference 2017, The Empress Hotel, Chiang Mai, July 12-15, 2017, p. 689-695.
40. Atitiya Wongkorn, Weraporn Pivsa-Art, Nanjaporn Roungpaisan, Suchalinee Mathurosemontri, Toshikazu Umemura, Masaki Nagata and **Somma Pivsa-Art**. Melt Spinning Process of Polymer Blend of Polyoxymethylene and Poly(lactic acid). IE Network Conference 2017, The Empress Hotel, Chiang Mai, July 12-15, 2017, p. 689-695, p. 604-608.
41. Prapadsorn Wannid, Weraporn Pivsa-Art, Takanori Negoro, **Somma Pivsa-Art**. Microfiber Nonwoven for Carpet Part from Poly(lactic acid) Using Cotton Candy Process. 14th Eco-Energy and Materials Science and Engineering Symposium, Kyoto, Japan, April 03-06, 2018.
42. Weraporn Pivsa-Art, Chaiyapop Siraworakun, **Somma Pivsa-Art**. Improvement of Water Cooling System for Oil in Water Cosmetic Cream Production Process. 14th Eco-Energy and Materials Science and Engineering Symposium, Kyoto, Japan, April 03-06, 2018.
43. Weraporn Pivsa-Art, **Somma Pivsa-Art**. Biocomposites of Poly(lactic acid)/Poly(butylene succinate) Reinforced With Kenaf. 14th Eco-Energy and Materials Science and Engineering Symposium, Kyoto, Japan, April 03-06, 2018.
44. Prapadsorn Wannid, Weraporn Pivsa-Art, Takanori Negoro, **Somma Pivsa-Art**. Green Carpet from Biodegradable Polymer. The 5th Packaging & Materials Innovation Symposium (PMIS) 2018, Faculty of Engineering, Kasetsart University, May 3 – 4, 2018.
45. Atitiya Wongkorn, Weraporn Pivsa-Art, Toshikazu Umemura, Masaki Nagata and **Somma Pivsa-Art**. Effect of Lubricant on POM/PLA Multifilament. The 5th Packaging & Materials Innovation Symposium (PMIS) 2018, Faculty of Engineering, Kasetsart University, May 3 – 4, 2018.

Publications:

46. Nattathaporn Wongtawon, Nattapon Yingsakda, Panuchit Samart, **Somma Pivsa-Art** and Weraporn Pivsa-Art. Effect of Poly(ethylene glycol) on Polymer Blends of Polyoxymethylene and Poly(lactic acid). The 5th Packaging & Materials Innovation Symposium (PMIS) 2018, Faculty of Engineering, Kasetsart University, May 3 – 4, 2018.

47. Komson Sunyikhan, **Somma Pivsa-Art**, Takanori Negoro, and Weraporn Pivsa-Art. Bicomponent Fiber of Recycled Poly(ethylene terephthalate) / Nano Titanium Dioxide. The 5th Packaging & Materials Innovation Symposium (PMIS) 2018, Faculty of Engineering, Kasetsart University, May 3 – 4, 2018.

48. Weraporn Pivsa-Art, and **Somma Pivsa-Art**. Emulsion Polymerization of Acrylonitrile monomer using potassium persulfate initiator in Micro/Nanobubble water, The 3rd international symposium on application of high-voltage, plasma and micro/nanobubble (fine bubble) to agriculture and aquaculture 9-12 May 2018 Morioka, Japan.

49. Saowaluk Boonyod, Weraporn Pivsa-Art, Wirachai Roynarin and **Somma Pivsa-Art**. The Effects of Processes, Property, and Benefits of Poly(lactic acid) on Reduction of Petroleum and Energy Utilization. 14 th Conference on Energy Network of Thailand (ENETT14 th) 13 – 15 June 2018, Novotel Rayong ,Thailand.

50. Saowaluk Boonyod, Weraporn Pivsa-Art and **Somma Pivsa-Art**. Effects of Plastic Waste on Energy Consumption and Carbon Dioxide Emissions on the Community. 11th Thailand Renewable Energy for Community Conference (TREC-11). 28-31 November 2018, Chaiyaphum Rajabhat University ,Thailand.

51. Saowaluk Boonyod, Weraporn Pivsa-Art and **Somma Pivsa-Art**. Fabrication of Poly(lactic acid) Non-woven Fiber by Melt-blown Method for Antimicrobial Applications. Asian Workshop on Polymer Processing (AWPP). December, 10 -13, 2018, Chiangmai Grandview Hotel, Chiang Mai, Thailand, p.89.

52. Danu Hunsunatai, Weraporn Pivsa-Art and **Somma Pivsa-Art**. Multi-fuctional recycled Poly(ethylene terephthalate) fiber for thermal insulation. Asian Workshop on Polymer Processing (AWPP). December, 10 -13, 2018, Chiangmai Grandview Hotel, Chiang Mai, Thailand, p.78.

Publications:

53. Sakda Preechawattanasakul, Weraporn Pivsa-Art and **Somma Pivsa-Art**. A study of the properties of fibers and yands from recycled rag abd residual polyester yands. Asian Workshop on Polymer Processing (AWPP). December, 10 -13, 2018, Chiangmai Grandview Hotel, Chiang Mai, Thailand, p.79.

54. Jakkaphat Preedawat, Supranee Potipiro, Weraporn Pivsa-Art, and **Somma Pivsa-Art**. Air Filter from Biodegradable Plastic Produced by a Melt Jet Spinning Process. The 6Th Packaging & Materials Innovation Symposium. Faculty of Engineering, Kasetsart University, May 2 – 3, 2019. p. 22.

55. Apinya Kunchanacha, Jidapa Prangsre, Weraporn Pivsa-Art, and **Somma Pivsa-Art**. Multifilament Fiber of Polyoxymethylene and Poly(Buthylene Succinate). The 6Th Packaging & Materials Innovation Symposium. Faculty of Engineering, Kasetsart University, May 2 – 3, 2019. p. 63.

56. Saowaluk Boonyod, Kiyoshi Yoshikawa, **Somma Pivsa-Art** and Weraporn Pivsa-Art. Extraction of Berberine from Coscinium Fenestratum with High Oxygen Content Water. 4th International symposium on Application of High-voltage, Plasma & Micro/Nano Bubble (Fine Bubble) to Agriculture and Aquaculture (4th ISHPMNB), Ayutthaya, Thailand, May 18-21, 2019, p. 92.

57. Sakda Preechawattanasakul, **Weraporn Pivsa-Art**, Kiyoshi Yoshikawa and Sommai Pivsa-Art. Cotton Dyeing with Natural Indigo in Micro/nano Bubble Oxygen Water. 4th International symposium on Application of High-voltage, Plasma & Micro/Nano Bubble (Fine Bubble) to Agriculture and Aquaculture (4th ISHPMNB), Ayutthaya, Thailand, May 18-21, 2019, p. 91.

58. Saowaluk Boonyod, **Weraporn Pivsa-Art** and Sommai Pivsa-Art. Production of Non-Woven Fibers from Biodegradable Polymers using a Melt Jet Spinning Method. The 2nd International Conference on Applied Science, Engineering and Interdisciplinary Studies 2019 (2nd ASEIS 2019) and The 4th Prachachuen Research Network National and International Conference (4th PRNCON), July 4-5, 2019, at Victoria Meeting Room, President Building Rajamangala University of Technology Thanyaburi, Pathumthani, Thailand.

59. Sakda Preechawattanasakul, **Weraporn Pivsa-Art** and Sommai Pivsa-Art. Polymer composite from poly(lactic acid) and poly(butylene succinate). The 2nd International Conference on Applied Science, Engineering and Interdisciplinary Studies 2019 (2nd ASEIS 2019) and The 4th Prachachuen Research Network National and International Conference (4th PRNCON), July 4-5, 2019, at Victoria Meeting Room, President Building Rajamangala University of Technology Thanyaburi, Pathumthani, Thailand.

Publications:

60. Danu Hunsunatai, Weraporn Pivsa-Art and **Somma Pivsa-Art**. Multi-functional recycled poly(ethylene terephthalate) fiber for thermal insulation. The 2nd International Conference on Applied Science, Engineering and Interdisciplinary Studies 2019 (2nd ASEIS 2019) and The 4th Prachachuen Research Network National and International Conference (4th PRNCON), July 4-5, 2019, at Victoria Meeting Room, President Building Rajamangala University of Technology Thanyaburi, Pathumthani, Thailand.

61. Jutamas Kord-Sa-Ard, Weraporn Pivsa-Art and Sommai Pivsa-Art. Effect of Natural Fibers on Mechanical Property of Poly(lactic acid) and Polypropylene Composite. Rajamangala Manufacturing and Management Technology Conference : RMTC 2020, 3-4 September, 2020, K.P. Grand Hotel, Chanthaburi, Thailand.

62. Jutamas Kord-Sa-Ard, Weraporn Pivsa-Art and Sommai Pivsa-Art. Thermal Property of Poly(lactic acid)/Polypropylene/Bamboo Fiber Composite for Injection Molding Application. The 6th International Conference on Engineering, Applied Sciences and Technology (ICEAST), July 1-4, 2020 at Electrical Engineering Dept., King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.

63. Attiya Wongkorn, Weraporn Pivsa-Art and Sommai Pivsa-Art. Biodegradation of POM/PLA Multifilament in Sea Water. The 6th International Conference on Engineering, Applied Sciences and Technology (ICEAST), July 1-4, 2020 at Electrical Engineering Dept., King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.

64. Piyakamon Thongtang, Sommai Pivsa-Art, Weraporn Pivsa-Art. POLY(BUTYLENE SUCCINATE) BIOCPOSITE MATERIAL REINFORCED WITH CELLULOSE MICROFIBERS FROM PALM BUNCH PRODUCED BY A HYDROTHERMAL PROCESS. The 5th International Conference on Smart Materials and Nanotechnology (SmartMat@2020), 1st-4thDecember 2020, Nongnooch Garden, Pattaya, Thailand.

65. Tanadech Chinsaard, Weraporn Pivsa-Art, Sommai Pivsa-Art. A MELT JET SPINNING PROCESS OF POLY (BUTYLENE SUCCINATE) FOR AIR CONDITIONER FILTER. The 5th International Conference on Smart Materials and Nanotechnology (SmartMat@2020), 1st-4thDecember 2020, Nongnooch Garden, Pattaya, Thailand.

Publications:

Journal

1. S. Pivsa-Art, K. Okuro, M. Miura, S. Murata, and M. Nomura, "Acylation of 2-Methoxynaphthalene with Acyl Chlorides in the Presence of a Catalytic Amount of Lewis Acids", *J. Chem. Soc., Perkin Trans. 1*, 1703-1707 (1994).
2. S. Pivsa-Art, Y. Fukui, M. Miura, and M. Nomura, "Copper-Promoted Reaction of Aryl Iodides with Activated Methine Compounds", *Bull. Chem. Soc. Jpn.*, 69, 2039-2042 (1996).
3. S. Pivsa-Art, T. Satoh, M. Miura, and M. Nomura, "Palladium-Catalyzed Reaction of Aryl Bromides with Dialkylacetylenes to Produce Allenic Compounds", *Chem. Lett.*, 823-824 (1997).
4. S. Pivsa-Art, T. Satoh, Y. Kawamura, M. Miura, and M. Nomura, "Palladium-Catalyzed Arylation of Azole Compounds with Aryl Halides in the Presence of Alkali Metal Carbonates and the Use of Copper Iodide in the Reaction", *Bull. Chem. Soc. Jpn.*, 71, 467-473 (1998)
5. M. Miura, S. Pivsa-Art, G. Dyker, J. Heiermann, T. Satoh, and M. Nomura, (1998): Palladium-Catalyzed Reaction of Aryl Bromides with Metallocenes to Produce Pentaarylated Cyclopentadienes. *J. Chem. Soc., Chemical Communication*, 1889-1890 (1998).
6. Jun-Ichi Inoh, Tetsuya Satoh, Sommai Pivsa-Art, Masahiro Miura, Masakatsu Nomura. Palladium-catalyzed coupling reaction of 4-alkylnitrobenzenes with aryl bromides at their benzylic position. *Tetrahedron Letters*, 1998, 39(26), 4673-4676.
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23. Sommai Pivsa-Art, Jutamas Kord-Sa-Ard, Weraporn Pivsa-Art, Rutchaneekorn Wongpajan, Narongchai O-Charoen, Sorapong Pavasupree, Hiroyuki Hamada. Effect of Compatibilizer on PLA/PP Blend for Injection Molding. *Energy Procedia*, 2016, 89, 353-360.
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25. Phornwalan Nanthananon, Manus Seadan, Sommai Pivsa-Art, Hiroyuki Hamada and Supakij Suttiruengwong. Facile Preparation and Characterization of Short-Fiber and Talc Reinforced Poly(Lactic Acid) Hybrid Composite with In Situ Reactive Compatibilizers. *Materials* 2018, 11, 1183; doi:10.3390/ma11071183
26. Supakij Suttiruengwong, Sommai Pivsa-Art and Metta Chareonpanich. Hydrophilic and Hydrophobic Mesoporous Silica Derived from Rice Husk Ash as a Potential Drug Carrier. *Materials* 2018, 11, 1142; doi:10.3390/ma11071142
27. Weraporn Pivsa-Art, Sommai Pivsa-Art. Effect of Talc on Mechanical Characteristics and Fracture Toughness of Poly(lactic acid)/Poly(butylene succinate) Blend. *Journal of Polymers and the Environment*, 2019, 27, 1821-1827. DOI:10.1007/s10924-019-01478-z.
28. Weraporn Pivsa-Art, Chaiyapop Siraworakun and Sommai Pivsa-Art. Improvement of Water Cooling System for Oil in Water Cosmetic Cream Production Process. *Journal of Chemical Engineering of Japan*. 2019, 52 (10), 789–792.
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Award / Research Grants:**2008**

Funding agency	National Metal and Materials Technology Center National Science and Technology Development Agency: NSTDA - Thailand
Project name	Preparation of Poly(lactic acid) and (Poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyvalerate] (PHBV) blends for Textile Industrials
Amount	1,480,000 baht

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Award / Research Grants:

2009	
Funding agency	National Metal and Materials Technology Center National Science and Technology Development Agency: NSTDA - Thailand
Project name	Synthesis of Biodegradable Plastics from Polymer Blends between Polyamide-4 and Poly(trimethylene terephthalate)
Amount	600,000 baht
Funding agency	National Research Council of Thailand
Project name	Production of Biodegradable Plastics Poly(l-lactic acid) for Plastics Industry in Thailand
Amount	1,500,000 baht
Funding agency	National Innovation Agency (NIA), Thailand
Project name	Preparation of Poly(D-lactic acid) from D-Lactic acid using Direct- Condensation Polymerization Process
Amount	500,000 baht
Funding agency	National Innovation Agency (NIA), Thailand
Project name	Separation of D,L-lactic acid by Membrane Process
Amount	1,149,586 บาท
Funding agency	National Innovation Agency (NIA), Thailand
Project name	Synthesis of a Pilot Scale Poly(lactic acid) by Direct Condensation Polymerization of Lactic Acid
Amount	4,282,176 baht
Funding agency	National Innovation Agency (NIA), Thailand
Project name	Preparation of Polymer Blends between Poly (L-lactic acid) and Poly(butylene- succinate-co-adipate) for Blow Film Industrial Application
Amount	1,000,000 baht

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Award / Research Grants:

<u>2010</u>	
Funding agency	National Metal and Materials Technology Center National Science and Technology Development Agency: NSTDA - Thailand
Project name	Preparation of Composite Materials between Natural Fibers and Polymer Blends of Poly(lactic acid) (PLA) and Poly(butylene succinate-co-adipate) (PBSA)
Amount	642,000 baht
<u>2012</u>	
Funding agency	National Research Council of Thailand
Project name	Preparation of Copolyesteramides Biodegradable Polymer from Lactic Acid and Polyamide Monomers for Packaging Films
Amount	462,000 baht
<u>2016</u>	
Funding agency	Thailand Science Research and Innovation (TSRI) Research and Researchers for Industries
Project name	Carpet Backing from Biodegradable Plastics Prepared by Cotton Candy Process
Amount	500,000 baht
<u>2017</u>	
Funding agency	Thailand Science Research and Innovation (TSRI)
Project name	Development of area based system management by using innovation: Optimization of waste management and create value-added products in area based of Pathumthani Provinces
Amount	5,000,000 baht
Funding agency	Thailand Science Research and Innovation (TSRI) Research and Researchers for Industries
Project name	Multifilament Strings from Polyoxymethylene (POM) and Poly(lactic acid) (PLA) Blends
Amount	500,000 baht

REMARK: Please send it in PDF format to secretariat.

Award / Research Grants:**2017**

Funding agency	Thailand Science Research and Innovation (TSRI) Research and Researchers for Industries
Project name	Development of multi-functional polyester fibers for thermal insulation application
Amount	500,000 baht

2019

Funding agency	Biodiversity-based Economy Development Office (Public Organization), BEDO
Project name	Conversion of Biodegradable Plastics mixed with biomass waste
Amount	1,500,000 baht