

Nattadon Rungrangkitkrai

Textile Science Department, Faculty of Agro-Industry, Kasetsart University

Tel: 084-669-1974 Email: Nattadon.R@ku.ac.th

Education

M.Sc. (Material Science), Chulalongkorn University

B.Eng. (Textile Chemistry Engineering), Ratchamangala Institute of Technology

Expertise

Wet process Enzyme treatment in textile pretreatment

Textile fiber

Textile testing

Natural dye

Selected Works

1. Mongkholrattanasit, R., Klaichoi, C., Rungrangkitkrai, N., Punrattanasin, N., and Sriharuksa, K. Dyeing studies with eucalyptus, quercetin, rutin and tannin: a research on effect of ferrous sulfate mordant. *Journal of Textile*. Vol. 1 (2013): 1-7. ISSN: 2314-6044 (electronic).
2. Punrattanasin, N., Nakpathom, M., Soomboon, B., Narumol, N., Rungrangkitkrai, N., and Mongkholrattanasit, R. Silk fabric dyeing with natural dye from mangrove bark (*Rhizophora apiculata* Blume) extract. *Industrial Crops and Products*. 49 (2013): 122-129. ISSN: 0926-6690.
3. Mongkholrattanasit, R., Klaichoi, C., Rungrangkitkrai, N., and Sasivatchutikool, N. An evaluation of UV Protection property of silk fabric dyed with mangrove bark (*Rhizophora apiculata* Blume) extract. *Advanced Materials Research*, 821-822 (2013): 560-563. ISSN: 10226680.
4. Mongkholrattanasit, R., Ariyakuare, K., Limtrakool., T., Saiwan, C., Rungrangkitkrai, N., Punrattanasin, N., Sriharuksa, K., and Nakpathom, M. An evaluation of silk fabric dyed with lac dye by using pad-dry technique. A research on effect of mordant concentration. *Advanced Materials Research*, 821-822 (2013): 569-572. ISSN: 10226680.
5. Mongkholrattanasit, R., Klaichoi, C., Egtasaeng, P., Saiwan, C., Rungrangkitkrai, N., Punrattanasin, N., Sriharuksa, K., and Nakpathom, M. UV Protection and Fastness Properties of Silk fabric dyed with *Garcinia Dulcis* (Roxb.) Kurz bark by Using Pad-dry Technique. A Focus on effect of mordant concentration. *Advanced Materials Research*, 821-822 (2013): 573-576. ISSN: 10226680.

6. Mongkholrattanasit, R., Rungruangkitkrai, N., Pikul, J., and Sittikijyothin, W. Application of tamarind gum thickener for polyester disperse printing. *Advanced Materials Research*, 821-822 (2013): 646-649. ISSN: 10226680.
7. Rungruangkitkrai, N., Mongkholrattanasit, R., Wongphakdee, W. and Studnickova, J. Eco-friendly dyeing and UV protection properties of wool fabric using natural dye from eucalyptus. *Research Journal of Textile and Apparel*. 17 (3) (2013): 29-37. ISSN: 1560-6074.
8. Mongkholrattanasit, R., Rungruangkitkrai, N., Tubtimthai, N. Sasivatchutikool, N., and Punrattanasin, N. Natural Dye from *Garcinia Dulcis* (Roxb.) Kurz Bark and Application on Silk Fabric by Using Pad-batch Dyeing: A study on mordant concentrations efficiency. *Advanced Materials Research*, 884-885 (2014): 216-219. ISSN: 10226680.
9. Mongkholrattanasit, R., Rungruangkitkrai, N., Tubtimthai, N., and Sasivatchutikool, N. UV Protection Property of Colorant from Lac for Silk Fabric Dyeing by Cold Pad-batch: The Influence of Metal Mordants Concentration. *Advanced Materials Research*, 884-885 (2014): 257-260. ISSN: 10226680.
10. Mongkholrattanasit, R., Maha-in, K., Klaichoi, C., Pimklang, W., Buathong, P., Sittikijyothin, W., and Rungruangkitkrai, N. (2014). Colorimetric Study on Silk Dyeing with the Extracted Dye from Longan Leaves Using Pre-Mordanting Technique: A research on Effect of Mordant Concentration. *Advanced Materials Research*, 1010-1012, 499-502.
11. Mongkholrattanasit, R., Punrattanasin, N., Sriharuksa, K., Laoong-u-thai, Y., and Rungruangkitkrai, N. (2014). Dyeing of Silk Fabrics with *Garcinia Dulcis* (Roxb.) Kurz Bark: Comparison of Fastness Properties and Colour Strength by Padding and Post-Mordanting Technique. *Advanced Materials Research*, 1010-1012, 503-507.
12. Mongkholrattanasit, R., Klaichoi, C., Sarnium, S., Jareonsapyanant, P., Sasivatchutikool, N., Pattavanitch, J., and Rungruangkitkrai, N. (2014). Effect of dye concentration on UV protection property of silk fabric dyed with purple corn cob using pre-mordanting method. *Advanced Materials Research*, 1010-1012, 508-511.
13. Mongkholrattanasit, R., Klaichoi, C., Nakpathom, M., Pattavanitch, J., and Rungruangkitkrai, N. (2014). Research on Pad-Dry Dyeing and Ultraviolet Protection of Silk Fabric Using Dyes Extracted from *Laccifer Lacca* Kerr. *Advanced Materials Research*, 1010-1012, 512-515.
14. Mongkholrattanasit, R., Klaichoi, C., Tomkom, T., Sasivatchutikool, N., Laoong-u-thai, Y., and Rungruangkitkrai, N. (2014). Effect of dye concentration on UV protection property of silk fabric dyed with purple corn cob using pre-mordanting method. *Advanced Materials Research*, 1010-1012, 506-519.
15. Mongkholrattanasit, R., Klaichoi, C., Mudchiew, O., Punrattanasin, N., Sasivatchutikool, N., and Rungruangkitkrai, N. (2014). Effect of Ferrous Sulfate to Improve UV-protection Property of Cotton Fabric Dyed with Natural Indigo. *Advanced Materials Research*, 1030-1032, 418-421.

16. Mongkholrattanasit, R., Klaichoi, C., Rug-ngam, P., Nakpathom, M., Paengsai, M., and Rungruangkitkrai, N. (2014). Influence of Metal Mordants Concentration to Improve UV Protection and Fastness Properties of Silk fabric Dyed with Purple Corn Cob. *Advanced Materials Research*, 1030-1032, 430-433.
17. Mongkholrattanasit, R., Klaichoi, C., Maha-in, K., Ariyakuare, K., Chonsakorn, C., and Rungruangkitkrai, N. (2014). Utilization of Longan Leaf Extract for Dyeing and UV Protection of Silk Fabric Using Pre-mordanting Method. *Advanced Materials Research*, 1030-1032, 438-441.
18. Klaichoi, C., Mongkholrattanasit, R., and Rungruangkitkrai, N. (2014). Application of Pigment Dye and Resist Printing Paste from Flour of Wild Taro (*Colocasia Esculenta* (L.) Schott) for Printing of Silk Fabric. *Advanced Materials Research*, 1030-1032, 410-413.
19. Klaichoi, C., Mongkholrattanasit, R., Sasivatchutikool, N., and Rungruangkitkrai, N. (2014). Fastness and Printing Properties of Cotton Fabric Printed with Natural Dye from *Acacia Catechu* Willd. *Advanced Materials Research*, 1030-1032, 426-429.
20. Klaichoi, C., Mongkholrattanasit, R., and Rungruangkitkrai, N. (2014). Silk Fabric Painted with Natural Dye from *Acacia Catechu* Willd. By Using Flour of Wild Taro (*Colocasia Esculenta* (L.) Schott) As Resist Printing Paste. *Advanced Materials Research*, 1030-1032, 434-437.
21. Mongkholrattanasit, R., Cholachatpinyo, A., Tubtimthai, N., and Rungruangkitkrai, N. (2014). An evaluation of UV protection imparted by wool fabric dyed with natural dye from eucalyptus leaf, *Chiang Mai Journal of Science*. 41 (5.2), 1208-1219.
22. Mongkholrattanasit, R., Saiwan, C., Rungruangkitkrai, N., Punrattanasin, N., Sriharuksa, K. Nakpathom, M., and Klaichoi, C. (2015) Ecological dyeing of silk fabric with lac dye by using padding techniques, *The Journal of Textile Institute*. 106 (10), 1106 – 1114.
23. Mongkholrattanasit, R., Saiwan, C., Klaichoi, C., Rungruangkitkrai, N., and Sasivatchutikool, P. (2015) UV-Protection Property of Silk Fabric Dyed with Natural Indigo by Using Padding Technique: A Focus on Effect of Ferrous Sulfate Mordant, *Applied Mechanics and Materials*. 804, 217-220
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25. Mongkholrattanasit, R., Punrattanasin, N., Rungruangkitkrai, N., Somboon, B., Narumol, N., and Nakpathom, M. Dyeing, fastness and UV protection properties of cotton fabric dyed with mangrove bark extract, *Cellulose Chemistry and Technology*. 50 (1) (2016): 163-171.
26. Mongkholrattanasit, R., Klaichoi, C., Rungruangkitkrai, N., Sasivatchutikool, P. Dyeing of nylon fabric with natural dye from cassia fistula fruit: A research on effect metal mordants concentration, *Materials Science Forum*. 857 (2016): 487-490.

27. Maha-in, K., Mongkholrattanasit, R., Klaichoi, C., Pimklang, W., Buathong, P., and Rungruangkitkrai, N. Dyeing silk fabric with natural dye from longan leaves using simultaneous mordanting method, *Materials Science Forum*. 857 (2016): 491-494.
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31. Klaichoi, C., Mongkholrattanasit, R., and Rungruangkitkrai, N. Batik on cotton fabric using pigment dyes. *Applied Mechanics and Materials*. 848 (2016): 154-157.
32. Maha-in, K., Mongkholrattanasit, R., Klaichoi, C., Pimklang, W., Buathong, P. and Rungruangkitkrai, N. Dyeing of silk fabric with natural colorant from *Dimocarpus Longan* leaves. *Applied Mechanics and Materials*. 848 (2016): 199-202.
33. Wang, W. Y., Yau, Y. L. S., Kan, C. W., Manarungwit, K., Rungruangkitkrai, N., & Mongkholrattanasit, R. (2019). A Study of Wickability of Gauze Products for Infant. In *Key Engineering Materials* (Vol. 814, pp. 291-296). Trans Tech Publications Ltd.
34. Wang, W. Y., Yim, H. H. L., Kan, C. W., Diswat, J., Krajangpo, W., Rungruangkitkrai, N., & Mongkholrattanasit, R. (2019). Evaluating the Thermal Conductivity and Q-Max Properties of Quick Dry Inner Wears. In *Key Engineering Materials* (Vol. 818, pp. 26-30). Trans Tech Publications Ltd.
35. Vuthiganond, N., Nakpathom, M., Somboon, B., Narumol, N., Rungruangkitkrai, N., & Mongkholrattanasit, R. (2019). Dyeing Parameters, Fastness and Ultraviolet Protection Properties of Nylon Dyed with Mangrove Bark Extract. *Materials Today: Proceedings*, 17, 2062-2069.
36. Wang, W. Y., Yau, Y. L. S., Kan, C. W., Manarungwit, K., Rungruangkitkrai, N., & Mongkholrattanasit, R. (2019). A Study of Wickability of Gauze Products for Infant. In *Key Engineering Materials* (Vol. 814, pp. 291-296). Trans Tech Publications Ltd