

CONTENTS


3 Message from the President of the Association of
Researchers of Thailand

4 Message from the Editor-in-chief

6 Executive Director

7 Activity Pictures

9 Visible-Light Photocatalysis with WO_3/TiO_2 Nanocom-
posite Fiber Sponges Prepared via Solution
Blow-Spinning Process

 Jate Panichpakdee, Sarat Nuchapon,
Busarin Noikaew, Saengdeon DOUNGDAW,
and Siriporn Larpiattaworn

17 Outside Cold Air Temperature Impact to Energy
Consumption in Air Conditioning System Bangkok
Metropolitan Area in 2019

 Vorasun Buranakarn and Pongsak Thanongtanasi


24 Innovative Learning Management for the local
wisdom on Herb using Local Community Resource
Base

 Duanpenporn Chaipugdee


35 Sarcoma Cancer Treatment using Extracted
Cannabis Oil in Cat

 Vorasun Buranakarn


41 Isolation and Molecular Characterization of
Antifungal Production from Rice Fields
Rhizosphere soil, Thailand

 Thitiya Rattanakavil, Tantima Kumlung, and
Khanungkan Klanbut


53 Effects of Coconut Coir Powders on the
properties of Natural Rubber Composites

 Teerakorn Kongkaew, Sureeporn Kumneadklang,
Jate Panichpakdee, Siriporn Larpiattaworn

61 Investigation of Physical and Mechanical
Properties of Colored TiO_2 Thin Films deposited
by RF Magnetron Sputtering

 Busarin Noikaew, Laksana Wangmooklang
and Siriporn Larpiattaworn

69 The role of wild pollinators enhancing the
sustainable productivity and quality of arabica
coffee in agroforestry

 Wissarut Sukhaket, Phawini Khetnon
and Duangthip Kantha