






## International Journal Publications : Year 2012 (33 articles)

1. Amornsamankul S, Pimpunchat B, Duangchai-Yoosook S, Triampo W\*. Applying genetic algorithm and fourier series to WQI of Tha Chin river in Thailand. [Int J Math Comput Simul 2012;6\(3\):333-40.](#)  
Department : Centre of Excellence in Mathematics / Mathematics / Physics  
Author's Status : Academic Staff  
Journal Name : International Journal of Mathematics and Computers in Simulation / Publisher : North Atlantic University Union  
Journal Metrics : Indexed in MathSciNet  
Indexed in Scopus : h indexed = 3 / SNIP = 0.561 / SJR = 0.171 / Category : [Applied Mathematics](#) 
2. Anlamlert W, Lenbury Y\*, Sarika W. Stability and bifurcation analysis of a model for the signal transduction process with a signal amplification delay. [Int J Math Model Method Appl Sci 2012;6\(5\):670-8.](#)  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff, M.Sc. Student  
Journal Name : International Journal of Mathematical Models and Methods in Applied Sciences / Publisher : North Atlantic University Union  
Journal Metrics : Indexed in MathSciNet  
Indexed in Scopus : h indexed = 5 / SNIP = 0.419 / SJR = 0.220 / Category : [Applied Mathematics](#) 
3. Baowan D\*, Cox BJ, Hill JM. Instability of C<sub>60</sub> fullerene interacting with lipid bilayer. [J Mol Model 2012 Feb;18\(2\):549-57.](#)  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff  
Journal Name : Journal of Molecular Modeling / Publisher : Springer  
Journal Metrics : Indexed in WOS : Impact Factor = 1.797 / Category : Computer Science, Interdisciplinary Applications (with median IF = 1.271) - Q2  
Indexed in Scopus : h indexed = 35 / SNIP = 0.774 / SJR = 0.456 / Category : [Computer Science Applications](#) 
4. Baowan D\*, Cox BJ, Hill JM. Modeling the join curve between two co-axial carbon nanotubes. [Z Angew Math Phys 2012 Apr;63\(2\):331-8.](#)  
Department : Mathematics  
Author's Status : Academic Staff  
Journal Name : Zeitschrift fur Angewandte Mathematik und Physik / Publisher : Springer  
Journal Metrics : Indexed in WOS : Impact Factor = 0.951 / Category : Mathematics, Applied (with median IF = 0.724) - Q2  
Indexed in Scopus : h indexed = 31 / SNIP = 0.939 / SJR = 0.649 / Category : [Mathematics \(miscellaneous\)](#) 
5. Baowan D\*. Modelling of carbon dioxide: methane separation using titanium dioxide nanotubes. [J Math Chem 2012 Jan;50\(1\):300-9.](#)  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff  
Journal Name : Journal of Mathematical Chemistry / Publisher : Springer  
Journal Metrics : Indexed in WOS : Impact Factor = 1.303 / Category : Mathematics, Interdisciplinary Applications (with median IF = 0.893) - Q2


Indexed in Scopus : h indexed = 34 / SNIP = 0.743 / SJR = 0.515 / Category : [Chemistry](#)  
(miscellaneous) 

6. Baowan D\*. On the effect of capping the ends of carbon nanotubes used for drug delivery. [Dynam Cont Dis Ser B 2012;19\(4-5\):613-9.](#)

Department : Centre of Excellence in Mathematics / Mathematics

Author's Status : Academic Staff

Journal Name : Dynamics of Continuous Discrete and Impulsive Systems-Series B-Applications & Algorithms / Publisher : Watam Press

Indexed in Scopus : h indexed = 18 / SNIP = 0.241 / SJR = 0.283 / Category : [Applied Mathematics](#) 

7. Boonrangsiman S, Bunwong K\*. Hopf bifurcation and dynamical behavior of a stage-structured predator sharing a prey. [Int J Math Model Method Appl Sci 2012;6\(8\):893-900.](#)

Department : Centre of Excellence in Mathematics / Mathematics

Author's Status : Academic Staff, M.Sc. Student

Journal Name : International Journal of Mathematical Models and Methods in Applied Sciences / Publisher : North Atlantic University Union

Journal Metrics : Indexed in MathSciNet

Indexed in Scopus : h indexed = 5 / SNIP = 0.419 / SJR = 0.220 / Category : [Applied Mathematics](#) 

8. Chadsuthi S, Modchang C, Lenbury Y, Iamsirithaworn S, Triampo W\*. Modeling seasonal leptospirosis transmission and its association with rainfall and temperature in Thailand using time-series and ARIMAX analyses. [Asian Pac J Trop Med 2012 Jul;5\(7\):539-46.](#)

Department : Centre of Excellence in Mathematics / Mathematics / Physics / TheP Center

Author's Status : Academic Staff, Ph.D. Student

Journal Name : Asian Pacific Journal of Tropical Medicine / Publisher : Elsevier

Journal Metrics : Indexed in WOS : Impact Factor = 0.371 / Category : Tropical Medicine (with median IF = 1.107) - Q4

Indexed in Scopus : h indexed = 10 / SNIP = 0.165 / SJR = 0.173 / Category : [Medicine](#)

(miscellaneous) 

9. Chantaren P, Ruamviboonsuk P\*, Ponglikitmongkol M, Tiensuwan M, Promso S. Major single nucleotide polymorphisms in polypoidal choroidal vasculopathy: A comparative analysis between Thai and other Asian populations. [Clin Ophthalmol 2012 Mar;6\(1\):465-471.](#)

Department : Biochemistry / Mathematics

Author's Status : Academic Staff

Journal Name : Clinical Ophthalmology / Publisher : Dove Medical Press 

Indexed in Scopus : h indexed = 9 / SNIP = 0.592 / SJR = 0.361 / Category : [Ophthalmology](#) 

Notes : Gold OA, [Beall's List](#)

10. Chuayjan W, Jumpen W\*, Boonkrong P, Wiwatanapataphee B. Two-phase flow of air and soybeans during a silo discharge process. [Int J Math Model Method Appl Sci 2012;6\(8\):909-16.](#)

Department : Centre of Excellence in Mathematics / Mathematics

Author's Status : Academic Staff, Adjunct Researcher, M.Sc. Student

Journal Name : International Journal of Mathematical Models and Methods in Applied Sciences / Publisher : North Atlantic University Union

Journal Metrics : Indexed in MathSciNet

Indexed in Scopus : h indexed = 5 / SNIP = 0.419 / SJR = 0.220 / Category : [Applied Mathematics](#) 

11. Croke P\*, Hotchkiss J, Lenbury Y, McKinney B. Mathematical modeling of patient care. [Comput Math Method Med 2012\(2012\):563287. \(Editorial Material\)](#)

Department : Centre of Excellence in Mathematics / Mathematics

Author's Status : Academic Staff

Journal Name : Computational and Mathematical Methods in Medicine / Publisher : Hindawi

Publishing 

Journal Metrics : Indexed in WOS : Impact Factor = 0.684 / Category : Mathematical & Computational Biology (with median IF = 1.676) - Q4

Indexed in Scopus : h indexed = 13 / SNIP = 0.637 / SJR = 0.358 / Category : [Medicine](#)









[\(miscellaneous\)](#) 

Notes : Gold OA

12. Deb UK\*, Chayantrakom K\*, Lenbury Y. Comparison of single-phase and two-phase flow dynamics in the HLTP for microalgae culture. [Int J Math Comput Simul 2012;6\(5\):496-503](#).  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff, Ph.D. Student  
Journal Name : International Journal of Mathematics and Computers in Simulation / Publisher : North Atlantic University Union  
Indexed in Scopus : h indexed = 3 / SNIP = 0.561 / SJR = 0.171 / Category : [Applied Mathematics](#) 
13. Jinuntuya N\*, Poulter J. Elementary excitations and the phase transition in the bimodal Ising spin glass model. [J Stat Mech-Theory E 2012 Jan;2012\(1\):P01010](#).  
Department : Mathematics / Physics  
Author's Status : Academic Staff, Ph.D. Student  
Journal Name : Journal of Statistical Mechanics-Theory and Experiment / Publisher : IOP  
Journal Metrics : Indexed in WOS : Impact Factor = 1.727 / Category : Mechanics (with median IF = 1.046) - Q1  
Indexed in Scopus : h indexed = 22 / SNIP = 0.437 / SJR = 0.329 / Category : [Statistical and Nonlinear Physics](#) 
14. Jumpen W, Orankitjaroen S\*, Wiwatanapataphee B, Boonkrong P. SEIQR disease transmission on GA-network. [Int J Math Comput Simul 2012;6\(5\):504-11](#).  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff, M.Sc. Student  
Journal Name : International Journal of Mathematics and Computers in Simulation / Publisher : North Atlantic University Union  
Journal Metrics : Indexed in MathSciNet  
Indexed in Scopus : h indexed = 3 / SNIP = 0.561 / SJR = 0.171 / Category : [Applied Mathematics](#) 
15. Kaneko H\*, Neamprem K, Novaprteep B. Wavelet collocation method and multilevel augmentation method for Hammerstein equations. [SIAM J Sci Comput 2012;34\(1\):A309-A338](#).  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff  
Journal Name : SIAM Journal on Scientific Computing / Publisher : Society for Industrial and Applied Mathematics  
Journal Metrics : Indexed in WOS : Impact Factor = 1.569 / Category : Mathematics, Applied (with median IF = 0.724) - Q1  
Indexed in Scopus : h indexed = 70 / SNIP = 1.612 / SJR = 1.551 / Category : [Applied Mathematics](#) 
16. Khompurngson K\*, Novaprteep B, Poltem D. Learning the value of a function from inaccurate data with different error tolerance of data error. [Int J Math Comput Simul 2012;6\(6\):513-20](#).  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff  
Journal Name : International Journal of Mathematics and Computers in Simulation / Publisher : North Atlantic University Union  
Journal Metrics : Indexed in MathSciNet  
Indexed in Scopus : h indexed = 3 / SNIP = 0.561 / SJR = 0.171 / Category : [Applied Mathematics](#) 

17. Lertprapai S, Tiensuwan M\*. On a comparison of the variance estimates of exponential distribution by multiple criteria decision making method. [Model Assisted Stat Appl 2012;7\(3\):251-60.](#)  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff  
Journal Name : Model Assisted Statistics and Applications / Publisher : IOS Press  
Indexed in Scopus : h indexed = 4 / SNIP = 0.226 / SJR = 0.195 / Category : [Applied Mathematics](#) 
18. Lueabunchong S, Lenbury Y\*, Panunzi S, Matone A. Comparison of Markov chain Monte Carlo and generalized least square methods on a model of glucose / insulin dynamics with GLP1-DPP4 interaction. [Int J Math Comput Simul 2012;6\(3\):341-50.](#)  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff, Ph.D. Student  
Journal Name : International Journal of Mathematics and Computers in Simulation / Publisher : North Atlantic University Union  
Indexed in Scopus : h indexed = 3 / SNIP = 0.561 / SJR = 0.171 / Category : [Applied Mathematics](#) 
19. Nokkaew A, Pimpunchat B, Modchang C, Amornsamankul S, Triampo W\*, Triampo D. Estimation of algae growth model parameters by a double layer genetic algorithm. [WSEAS Trans Comput 2012 Nov;11\(11\):377-86.](#)  
Department : Center of Excellence for Innovation in Chemistry / Centre of Excellence in Mathematics / Chemistry / Mathematics / Physics  
Author's Status : Academic Staff  
Journal Name : WSEAS Transactions on Computers / Publisher : WSEAS   
Indexed in Scopus : h indexed = 10 / SNIP = 0.274 / SJR = 0.264 / Category : [Computer Science \(miscellaneous\)](#)   
Notes : Gold OA, [Beall's List](#)
20. Novapruteep B\*, Neamprem K, Kaneko H. On taylor expansion methods for multivariate integral equations of the second kind. [Int J Math Model Method Appl Sci 2012;6\(8\):901-8.](#)  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff  
Journal Name : International Journal of Mathematical Models and Methods in Applied Sciences / Publisher : North Atlantic University Union  
Journal Metrics : Indexed in MathSciNet  
Indexed in Scopus : h indexed = 5 / SNIP = 0.419 / SJR = 0.220 / Category : [Applied Mathematics](#) 
21. Numpacharoen K\*, Atsawarungrangkit A. Generating correlation matrices based on the boundaries of their coefficients. [PLoS One 2012 Nov;7\(11\):e48902.](#)  
Department : Mathematics  
Author's Status : Ph.D. Student  
Journal Name : PLoS One / Publisher : Public Library of Science   
Journal Metrics : Indexed in WOS : Impact Factor = 4.092 / Category : Biology (with median IF = 1.546) - Q1  
Indexed in Scopus : h indexed = 85 / SNIP = 1.148 / SJR = 1.764 / Category : [Multidisciplinary](#) 
22. Panitsupakamon W, Rattanakul C\*. A delay-differential equation model of bone remodeling process: Effects of estrogen supplements. [Int J Math Comput Simul 2012;6\(5\):430-8.](#)  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff  
Journal Name : International Journal of Mathematics and Computers in Simulation / Publisher : North Atlantic University Union  
Journal Metrics : Indexed in MathSciNet  
Indexed in Scopus : h indexed = 3 / SNIP = 0.561 / SJR = 0.171 / Category : [Applied Mathematics](#) 

23. Petaratip T, Bunwong K\*, Moore EJ, Suwandechochai R. Sustainable harvesting policies for a fishery model including spawning periods and taxation. [Int J Math Model Method Appl Sci 2012;6\(2\):411-18.](#)  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff  
Journal Name : International Journal of Mathematical Models and Methods in Applied Sciences /  
Publisher : North Atlantic University Union  
Journal Metrics : Indexed in MathSciNet  
Indexed in Scopus : h indexed = 5 / SNIP = 0.419 / SJR = 0.220 / Category : [Applied Mathematics](#) 
24. Poltem D\*, Khompurngson K, Novaprateep B. Function representation using hypercircle inequality for data error. [Int J Math Comput Simul 2012;6\(6\):521-8.](#)  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff  
Journal Name : International Journal of Mathematics and Computers in Simulation / Publisher : North Atlantic University Union  
Journal Metrics : Indexed in MathSciNet  
Indexed in Scopus : h indexed = 3 / SNIP = 0.561 / SJR = 0.171 / Category : [Applied Mathematics](#) 
25. Prathumwan D, Lenbury Y\*, Satiracoo P, Rattanakul C. Euler-Maruyama approximation and maximum likelihood estimator for a stochastic differential equation model of the signal transduction process. [Int J Math Model Method Appl Sci 2012;6\(2\):323-31.](#)  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff, M.Sc. Student  
Journal Name : International Journal of Mathematical Models and Methods in Applied Sciences /  
Publisher : North Atlantic University Union  
Journal Metrics : Indexed in MathSciNet  
Indexed in Scopus : h indexed = 5 / SNIP = 0.419 / SJR = 0.220 / Category : [Applied Mathematics](#) 
26. Rattanakul C\*. Effects of vitamin D and time delay on bone resorption and bone formation: Mathematical modeling approach. [Int J Math Model Method Appl Sci 2012;6\(7\):873-84.](#)  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff  
Journal Name : International Journal of Mathematical Models and Methods in Applied Sciences /  
Publisher : North Atlantic University Union  
Journal Metrics : Indexed in MathSciNet  
Indexed in Scopus : h indexed = 5 / SNIP = 0.419 / SJR = 0.220 / Category : [Applied Mathematics](#) 
27. Rattanakul C, Lenbury Y\*. Stability analysis and analytical solution of a nonlinear model for controlled drug release: Travelling wave fronts. [Int J Math Comput Simul 2012;6\(3\):351-9.](#)  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff  
Journal Name : International Journal of Mathematics and Computers in Simulation / Publisher : North Atlantic University Union  
Journal Metrics : Indexed in MathSciNet  
Indexed in Scopus : h indexed = 3 / SNIP = 0.561 / SJR = 0.171 / Category : [Applied Mathematics](#) 
28. Sae-jie W, Bunwong K\*, Moore EJ. A nutrient-induced seasonal algal bloom model. [Int J Math Model Method Appl Sci 2012;6\(2\):402-10.](#)  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff  
Journal Name : International Journal of Mathematical Models and Methods in Applied Sciences /  
Publisher : North Atlantic University Union  
Journal Metrics : Indexed in MathSciNet  
Indexed in Scopus : h indexed = 5 / SNIP = 0.419 / SJR = 0.220 / Category : [Applied Mathematics](#) 

29. Sawasdee K, Tiensuwan M, Siripinyanond A, Chirachariyavej C, Smith SM\*. Elemental analysis of burnt human bone for classifying sex and age at death by logistic regression. [Anal Methods 2012 Jun;4\(6\):1769-75.](#)  
Department : Center of Excellence for Innovation in Chemistry / Chemistry / Forensic Science Graduate Programme / Mathematics  
Author's Status : Academic Staff, M.Sc. Student  
Journal Name : Analytical Methods / Publisher : RSC  
Journal Metrics : Indexed in WOS : Impact Factor = 1.547 / Category : Food Science & Technology (with median IF = 1.165) - Q2  
 Indexed in Scopus : h indexed = 10 / SNIP = 0.667 / SJR = 0.486 / Category : [Engineering \(miscellaneous\)](#) 
30. Toghaw P, Matone A, Lenbury Y, De Gaetano A\*. Bariatric surgery and T2DM improvement mechanisms: a mathematical model. [Theor Biol Med Model 2012 May;9:16.](#)  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff, Adjunct Staff  
Journal Name : Theoretical Biology and Medical Modelling / Publisher : BioMed Central   
Journal Metrics : Indexed in WOS : Impact Factor = 1.859 / Category : Mathematical & Computational Biology (with median IF = 1.676) - Q2  
 Indexed in Scopus : h indexed = 21 / SNIP = 0.914 / SJR = 0.493 / Category : [Modeling and Simulation](#)   
 Notes : Gold OA
31. Wiwatanapataphee B\*, Wu YH. Mathematical study of blood flow in the real model of the right coronary artery - Bypass graft system. [Dynam Cont Dis Ser B 2012;19\(4-5\):621-35.](#)  
Department : Centre of Excellence in Mathematics / Mathematics  
Author's Status : Academic Staff  
Journal Name : Dynamics of Continuous Discrete and Impulsive Systems-Series B-Applications & Algorithms / Publisher : Watam Press  
 Indexed in Scopus : h indexed = 18 / SNIP = 0.241 / SJR = 0.283 / Category : [Applied Mathematics](#) 
32. Wiwatanapataphee B, Wu YH\*, Siriapisith T, Nuntadilok B. Effect of branchings on blood flow in the system of human coronary arteries. [Math Biosci Eng 2012 Jan 1;9\(1\):199-214.](#)  
Department : Mathematics  
Author's Status : Academic Staff, Ph.D. Student  
Journal Name : Mathematical Biosciences and Engineering / Publisher : American Institute of Mathematical Sciences   
Journal Metrics : Indexed in WOS : Impact Factor = 1.131 / Category : Mathematical & Computational Biology (with median IF = 1.676) - Q3  
 Indexed in Scopus : h indexed = 15 / SNIP = 0.831 / SJR = 0.482 / Category : [Medicine \(miscellaneous\)](#)   
 Notes : Hybrid OA
33. Zhang XG\*, Liu LS, Wiwatanapataphee B, Wu YH. Positive solutions of eigenvalue problems for a class of fractional differential equations with derivatives. [Abstr Appl Anal 2012;2012:512127.](#)  
Department : Mathematics  
Author's Status : Academic Staff  
Journal Name : Abstract and Applied Analysis / Publisher : Hindawi Publishing   
Journal Metrics : Indexed in WOS : Impact Factor = 1.318 / Category : Mathematics (with median IF = 0.709) - Q1  
 Indexed in Scopus : h indexed = 18 / SNIP = 1.274 / SJR = 0.045 / Category : [Mathematics \(miscellaneous\)](#)   
 Notes : Gold OA

