

Arş.Gör.Dr. İREM ÇAY

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, Türkiye 2012 - 2018

Yüksek Lisans, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, Türkiye 2009 - 2012

Lisans, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Matematik, Türkiye 2005 - 2009

Yabancı Diller

İngilizce, B2 Orta Üstü

Akademik Unvanlar / Görevler

Araştırma Görevlisi, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2010 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A NUMERICAL PROOF THAT CERTAIN CELLS FOLLOW the TRAILS of the DIFFUSIONS of SOME CHEMICALS in the EXTRACELLULAR MATRIX**
ÇAY İ., PAMUK S.
Journal of Mechanics in Medicine and Biology, 2021 (SCI Expanded İndekslerine Giren Dergi)
- II. **A 2D mathematical model for tumor angiogenesis: The roles of certain cells in the extra cellular matrix**
PAMUK S., ÇAY İ., SAZCI A.
MATHEMATICAL BIOSCIENCES, cilt.306, ss.32-48, 2018 (SCI İndekslerine Giren Dergi)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Turing Analysis of a Mathematical Model for Interaction between Tumor Cell and Its Inhibitor**
PAMUK S., ÇAY İ.
Academic Journal of Applied Mathematical Sciences, 2017 (Diğer Kurumların Hakemli Dergileri)
- II. **Self Similar Asymptotics for Linear and Nonlinear Mathematical Models of Tumor Angiogenesis: A Review**
PAMUK S., ÇAY İ.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, 2014 (Diğer Kurumların Hakemli Dergileri)
- III. **The method of lines for the numerical solution of a mathematical model in the initiation of angiogenesis**
PAMUK S., çay i.
TWMS J. App. Eng, cilt.3, 2013 (Diğer Kurumların Hakemli Dergileri)

- IV. **On the Stability of the Steady-State Solutions of Cell Equations in a Tumor Growth Model**
ÇAY İ., PAMUK S.
AIP Conference Proceedings, 2012 (Diğer Kurumların Hakemli Dergileri)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **A Mathematical Analysis of a Model in Capillary Formation: The Roles of Endothelial, Pericyte and Macrophages in the Initiation of Angiogenesis**
Pamuk S., Çay I.
20th World Academy of Science, Engineering and Technology Conference, Paris, Fransa, 19 - 20 Şubat 2018, cilt.20, ss.1600
- II. **A Mathematical Analysis of a 2D Model for Tumor Angiogenesis: An Initial Data Perturbation Approximation**
PAMUK S., ÇAY İ.
International Conference on Applied Analysis and Mathematical Modelling, 3 - 07 Temmuz 2017
- III. **A 2D Mathematical Model for Tumor Angiogenesis: The Roles of Endothelials, Pericytes and Macrophages in the ECM**
Pamuk S., Çay İ., Sazcı A.
BIT's 10th Annual World Cancer Congress-2017, Barcelona, İspanya, 19 - 21 Mayıs 2017
- IV. **Stability and Hopf Bifurcation Analysis of a Mathematical Model in Tumor Angiogenesis**
ÇAY İ., PAMUK S.
INTERNATIONAL CONFERENCE ON MATHEMATICS AND ENGINEERING, 10 - 12 Mayıs 2017
- V. **Self Similar Asymptotics for Linear and Nonlinear Mathematical Models of Tumor Angiogenesis: A Review**
PAMUK S., ÇAY İ.
International Conference on Nonlinear Differential and Difference Equations: Recent Developments and Applications, 27 - 30 Mayıs 2014
- VI. **On the Stability of the Steady-State Solutions of Cell Equations in a Tumor Growth Model**
Atac I., PAMUK S.
1st International Conference on Analysis and Applied Mathematics (ICAAM), Gümüşhane, Türkiye, 18 - 21 Ekim 2012, cilt.1470, ss.172-175
- VII. **The Method of Lines for the Numerical Solutions of a Mathematical Model for Capillary Formation The Roles of Endothelial Pericytes and Macrophage Cells in the Capillary**
PAMUK S., çay i.
5th Annual International Conference on Mathematics, Statistics Mathematical Education, Atina, Yunanistan, 13 - 16 Haziran 2011