SAKARYA ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ (SAKARYA UNIVERSITY JOURNAL OF SCIENCE) İÇİNDEKİLER/CONTENTS Cilt/Volume: 24 – No/Issue: 6 (ARALIK/DECEMBER 2020)

RESEARCH ARTICLES

Title	Authors	Pages
Structural Design and Stress Analysis of a Helical Vertical Axis Wind Turbine Blade	Özer ÖĞÜÇLÜ	1151-1161
The Relation Between Chebyshev Polynomials and Jacobsthal and Jacobsthal Lucas Sequences	Şükran UYGUN	1162-1170
Clustering Entrepreneurial and Innovative Universities in Turkey According to Their Relevance to Industry 4.0	Türkay DERELİ, Özge VAR, Alptekin DURMUŞOĞLU	1171-1184
Time Fractional Equation Including Non-homogenous Dirichlet Boundary Conditions	Süleyman ÇETİNKAYA, Ali DEMİR	1185-1190
Process Model Development of Lithium-ion Batteries — An Electrochemical Impedance Spectroscopy Simulation	Salim EROL	1191-1197
A Practical Distributed Lightweight Multi-Hop Time Synchronization Algorithm for Linear Wireless Sensor Networks Implemented on a PIC Based System with Realistic Experimental Analysis		1198-1209
Synthesis of Gd doped TiO2 Thin Film for Photocatalytic Degradation of Malachite Green	Hasan ESKALEN, Süleyman KERLİ	1210-1215
Optimization of the S-Rotor Savonius Wind Turbine	Cemil YİĞİT	1216-1222
Supervised Learning Approaches to Flight Delay Prediction	Mehmet Cemal ATLIOĞLU, Mustafa BOLAT, Murat ŞAHİN, Volkan TUNALI, Deniz KILINÇ	
Study of the Effect of Various Chemical Polishing Treatments on MBE- Grown CdTe/GaAs (211)B Heterostructures	Elif BİLGİLİSOY, Elif OZCERİ, Enver TARHAN	1232-1247
Comparison of the IUCN and the National Biodiversity (Noah's Ark) Database	Levent BİLER, Seda BİKRİÇ	1248-1251
Solution of Test Problems with Grey Wolf Optimization Algorithm and Comparison with Particle Swarm Optimization	Alper KÖYBAŞI, İrfan YAZİCİ	1252-1264
Reviewing Phlomis rigida Labill From Turkey as a Antimicrobial Efficacy	Pınar ERECEVİT SÖNMEZ, Sevda KIRBAG, Uğur ÇAKILCIOĞLU	1265-1271
An Experimental Method for Estimating Combined Friction Torque in Vane Type Pneumatic Semi Rotary Actuators	Mustafa DAĞDELEN, Mehmet İlteriş SARIGEÇİLİ	1272-1283
Surface Improvement of Low Carbon Steels (St37) by Duplex Treatments	Yıldız YARALI ÖZBEK	1284-1293
A Sentiment Analysis Model for Terrorist Attacks Reviews on Twitter	İbrahim FADEL, Cemil ÖZ	1294-1302
On the Loci of Relaxation Time and Magnetic Dispersion Maxima in the Mean-Field Ising Model	Songül ÖZÜM	1303-1313
The Role of Vertical Tool Load on the Joint Properties of Friction Stir Spot Welded Brass Alloy	Zafer BARLAS, Uğur ÖZSARAÇ	1314-1320

Semi-Analytical and Finite Element Investigations of the Vibration of a Stepped Beam on an Elastic Foundation	Hakan ERDOĞAN, Safa Bozkurt COŞKUN	1321-1328
The Method to Predict First Critical Core Loading for Nuclear Reactors	Senem ŞENTÜRK LÜLE	1329-1336
Investigation of Neuregulin-1 Gen rs6994992 Polymorphism in Gifted Students in Turkish Population	Fikriye POLAT, Tuğba Büşra BAYRAM, Burcu YÜKSEL	1337-1343
An in Vivo Study for the Use of Lupinus Albus (Fabaceae) in Drosophila Melanogaster Diet	Eda GÜNEŞ, Hatice Ferhan NİZAMLIOĞLU, Zafer BULUT, Mehmet NİZAMLIOĞLU	1344-1351