Al-Ayen University Publications All Years

1. Survey of ground beetles inhabiting agricultural crops in south-east Kazakhstan [Levantamento de besouros terrestres que habitam plantações agrícolas no sudeste do Cazaquistão]

2. Evaluating the secondary bioactive metabolites in Geodia corticostylifera [Avaliação dos metabólitos bioativos secundários em Geodia corticostylifera]

3. Agrobiological evaluations of newly introduced grapes varieties under climatic conditions of the south of Kazakhstan [Avaliações agrobiológicas de variedades de uvas recém-introduzidas sob as condições climáticas do sul do Cazaquistão]

4. Study on the role of nano antibacterial materials in orthodontics (a review) [Estudo sobre o papel dos materiais nanoantibacterianos na ortodontia]

5. Modeling and Optimizing the Charge of Electric Vehicles with Genetic Algorithm in the Presence of Renewable Energy Sources

6. Farasan Island of Saudi Arabia confronts the measurable impacts of global warming in 45 years

7. Dispersive solid phase microextraction based on magnesium oxide nanoparticles for preconcentration of auramine O and methylene blue from water samples

8. Effect of Training Sessions on Awareness, Disease Management, and Quality of Life in Patients with Type 2 Diabetes

9. Computational assessment of groundwater salinity distribution within coastal multi-aquifers of Bangladesh

10. Carboxymethyl Chitosan Nano-Fibers for Controlled Releasing 5-Fluorouracil Anticancer Drug

11. Coupled online sequential extreme learning machine model with ant colony optimization algorithm for wheat yield prediction

12. An improved adaptive neuro fuzzy inference system model using conjoined metaheuristic algorithms for electrical conductivity prediction

13. An efficient and durable bifunctional electrocatalyst based on SnO2/CNT toward electrocatalytic full water splitting

14. Application of the ANOVA method in the optimization of a thermoelectric cooler-based dehumidification system

15. Modification optical properties of TiO2 nanostructure as solar cell

16. Thermal analysis of hydration process in the vicinity of the Copper matrix using molecular dynamics simulation for application in thermal engineering

17. Design of low-energy buildings in densely populated urban areas based on IoT

18. Thermal effectiveness of solar collector using Graphene nanostructures suspended in ethylene glycol–water mixtures

19. The effect of hydrophilic and hydrophobic surfaces on the thermal and atomic behavior of ammonia/copper nanofluid using molecular dynamics simulation

20. MXene/metal and polymer nanocomposites: Preparation, properties, and applications

21. Practice of intercropping and its impact on legume productivity in Egypt

22. Polymeric nanocomposite membranes for gas separation: Performance, applications, restrictions and future perspectives

23. Mesoporous high-surface-area activated carbon from biomass waste via microwave-assisted-H3PO4 activation for methylene blue dye adsorption: An optimized process

24. Numerical study of obstacle effect on atomic behavior of argon fluid flow inside a nanochannel with molecular dynamics approach

25. Multi-step daily forecasting of reference evapotranspiration for different climates of India: A modern multivariate complementary technique reinforced with ridge regression feature selection

26. The effect of green belt as an environmentally friendly approach on energy consumption reduction in buildings

27. What is the influence of grape products on liver enzymes? A systematic review and meta-analysis of randomized controlled trials

28. Phytochemical profile, in vivo anti-inflammatory and wound healing activities of the aqueous extract from aerial parts of Cistus ladanifer L

29. Computational study of the effect of Fe-doping on the sensing characteristics of BC3 nano-sheet toward sulfur trioxide

30. Potential application of AlP nanosheet semiconductor in the detection of toxic phosgene, thiophosgene, and formaldehyde gases

31. New material for addressing charge transport issue in DSSCs: Composite WS2/MoS2 high porosity counter electrodes

32. Comparative examination of the physical parameters of the sol gel produced compounds La0.5Ag0.1Ca0.4MnO3 and La0.6Ca0.3Ag0.1MnO3

33. The Association of Serum Calcium and Vitamin D with Insulin Resistance and Beta-Cell Dysfunction among People with Type 2 Diabetes

34. The emerging role of microbiota-derived short-chain fatty acids in immunometabolism

35. SDN-assisted technique for traffic control and information execution in vehicular adhoc networks

36. An innovative clustering technique to generate hybrid modeling of cooling coils for energy analysis: A case study for control performance in HVAC systems

37. Earth skin temperature long-term prediction using novel extended Kalman filter integrated with Artificial Intelligence models and information gain feature selection

38. Role of Alloying Composition on Mechanical Properties of CuZr Metallic Glasses During the Nanoindentation Process

39. Multi-strategy Slime Mould Algorithm for hydropower multi-reservoir systems optimization

40. Households' perceptions and socio-economic determinants of climate change awareness: Evidence from Selangor Coast Malaysia

41. Efficient Heat Transfer Augmentation in Channels with Semicircle Ribs and Hybrid Al2O3-Cu/Water Nanofluids

42. Alendronate reinforced polycaprolactone-gelatin-graphene oxide: A promising nanofibrous scaffolds with controlled drug release

43. Graphene and carbon structures and nanomaterials for energy storage

44. Investigation of recent progress in metal-based materials as catalysts toward electrochemical water splitting

45. A comprehensive review on pulsed laser deposition technique to effective nanostructure production: trends and challenges
46. Rock-Wettability Impact on CO2-Carbonate Rock Interaction and the Attendant Effects on CO2Storage in Carbonate Reservoirs
47. Using Agarwal analytical approach with superposition rate and time solutions to analyze multi and single well systems
48. Ultrasound and microwave irradiated sustainable synthesis of 5- and 1-substituted tetrazoles in TAIm[I] ionic liquid
49. Delineation of urban expansion and drought-prone areas using vegetation conditions and other geospatial indices
50. Effect of tomato consumption on inflammatory markers in health and disease status: A systematic review and meta-analysis of clinical trials
51. Effects of short-term exposure to the heavy metal, nickel chloride (Nicl2) on gill histology and osmoregulation components of the gray mullet, Mugil cephalus
52. Integrated approach to evaluate unstable rocky slopes: case study of Aqabat Al-Sulbat road in Aseer Province, Saudi Arabia
53. Evaluating the potential of graphene-like boron nitride as a promising cathode for Mg-ion batteries
54. Synthesis of Bioactive Yttrium-Metal–Organic Framework as Efficient Nanocatalyst in Synthesis of Novel Pyrazolopyranopyrimidine Derivatives and Evaluation of Anticancer Activity
55. Catalytic filtration: efficient C-C cross-coupling using Pd(II)-salen complex-embedded cellulose filter paper as a portable catalyst
56. Corruption in Public Offices: A Way to Reduce Corrupt Practices
57. Evaluation of the antioxidant properties of microalgae naturally isolated from Mediterranean Morocco
58. Optimized Green Extraction of Polyphenols from Cassia javanica L. Petals for Their Application in Sunflower Oil: Anticancer and Antioxidant Properties
59. Assessing the Impact of Groundwater Extraction on the Performance of Fractured Concrete Subsurface Dam in Controlling Seawater Intrusion in Coastal Aquifers
60. Detection of Salmonella spp. By Traditional and PCR Assays in Raw Milk, Maysan, Iraq

61. Forecasting weekly reference evapotranspiration using Auto Encoder Decoder Bidirectional LSTM model hybridized with a Boruta-CatBoost input optimizer

62. Gram scale, metal-free and selective aerobic oxidation of alcohol and alkyl benzenes using homogeneous recyclable TAIm[MnO4] oxidative ionic liquid under mild conditions: Microwave/ ultrasonic-assisted to carboxylic acid
63. New soliton solutions of Simplified Modified Camassa Holm equation, Klein–Gordon–Zakharov equation using First Integral Method and Exponential Function Method
64. Long-term multi-step ahead forecasting of root zone soil moisture in different climates: Novel ensemble-based complementary data-intelligent paradigms

65. Optimized video internet of things using elliptic curve cryptography based encryption and decryption

66. Protective effects of dietary Lavender (Lavandula officinalis) essential oil against Malathion-induced toxicity in rainbow trout (Oncorhynchus mykiss)

67. Surface water sodium (Na+) concentration prediction using hybrid weighted exponential regression model with gradient-based optimization

68. Beneficial alterations in growth performance, blood biochemicals, immune responses, and antioxidant capacity of common carp (Cyprinus carpio) fed a blend of Thymus vulgaris, Origanum majorana, and Satureja hortensis extracts

69. Diagnostic role of dynamic contrast-enhanced magnetic resonance imaging in differentiating breast lesions

70. Evaluation of the outcomes of using iliac bone graft for reconstruction of traumatic orbital floor fractures

71. Intolerance of Uncertainty Scale-12: Psychometric Properties of This Construct Among Iranian Undergraduate Students

72. Groundwater level prediction using machine learning models: A comprehensive review

73. Synthesis and Characterization of CoFe2 O4 Nanoparticles and Its Application in Removal of Reactive Violet 5 from Water

74. ZnO/Co3 O4 Nanocomposites: Novel Preparation, Characterization, and Their Performance toward Removal of Antibiotics from Wastewater

75. Natural Time Series Parameters Forecasting: Validation of the Pattern-Sequence-Based Forecasting (PSF) Algorithm; A New Python Package

76. Distributed Hydrological Model Based on Machine Learning Algorithm: Assessment of Climate Change Impact on Floods

77. Delineating the Crop-Land Dynamic due to Extreme Environment Using Landsat Datasets: A Case Study

78. The effect of conjugated linoleic acid supplementation on oxidative stress markers: A systematic review and meta-analysis of randomized controlled trials

79. Retraction Note to: On the prediction of methane fluxes from pristine tropical peatland in Sarawak: application of a denitrification–decomposition (DNDC) model (Environmental Science and Pollution Research,(2022),29,(30724–30738), 10.1007/s11356-021-17917-1)

80. Bone morphogenetic protein (BMP)-modified graphene oxide-reinforced polycaprolactone–gelatin nanofiber scaffolds for application in bone tissue engineering

81. The characterization of cold welding process in CuZr metallic glasses with dissimilar alloying compositions

82. Physical properties of PEG coated Y doped ZnO nanoparticles and their potential as high gamma dose thermoluminescence material

83. Cytotoxicity evaluation of environmentally friendly synthesis Copper/Zinc bimetallic nanoparticles on MCF-7 cancer cells

84. Dietary Dracocephalum kotschyi essential oil improved growth, haematology, immunity and resistance to Aeromonas hydrophila in rainbow trout (Oncorhynchus mykiss)

85. The impact of climate change on land degradation along with shoreline migration in Ghoramara Island, India
86. Effect of land use land cover changes on land surface temperature during 1984–2020: a case study of Baghdad city using landsat image
87. Predictability performance enhancement for suspended sediment in rivers: Inspection of newly developed hybrid adaptive neuro-fuzzy system model
88. Comprehensive comparison of various machine learning algorithms for short-term ozone concentration prediction
89. Emerging optical and electrochemical biosensing approaches for detection of ciprofloxacin residues in food and environment samples: A comprehensive overview
90. Presence of Escherichia coli O157:H7 in Dairy Farms located in Najaf, Baghdad, Kirkuk, and Erbil, Iraq
91. Evaluating the Level of Serum IL-23 in Brucellosis Infection by ELISA and Investigating its Relationship in Cases with Failure to Respond to Treatment
92. Ovine Pasteurellosis Vaccine: Assessment of the Protective Antibody Titer and Recognition of the Prevailing Serotypes
93. Investigation of in vitro Cytotoxicity of Chelidonium majus against Leishmania Major
94. The Potential Benefits of Legumes Germ and Cereal Grains on Roosters' Reproductive Performance
95. Thermal and Hydraulic Performances of Carbon and Metallic Oxides-Based Nanomaterials
96. Effect of High Temperature on Thermal Analysis, Structure and Morphology of CeO2 Nanoparticles Prepared by Hydrothermal Method
97. The effects of initial rejuvenation on the cold joining behavior of Cu60Zr40 metallic glass
98. Preparation of antibacterial Gel/PCL nanofibers reinforced by dicalcium phosphate-modified graphene oxide with control release of clindamycin for possible application in bone tissue engineering
99. Prediction of molecular diffusivity of organic molecules based on group contribution with tree optimization and SVM models

100. Dynamics analysis of a novel hybrid deep clustering for unsupervised learning by reinforcement of multi-agent to energy saving in intelligent buildings

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104. Development of new computational machine learning models for longitudinal dispersion coefficient determination: case study of natural streams, United States

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138. Adsorption of Pb(II) and Cd(II) by magnetic chitosan-salicylaldehyde Schiff base: Synthesis, characterization, thermal study and antibacterial activity

139. Ca12O12 nanocluster as highly sensitive material for the detection of hazardous mustard gas: Density-functional theory

140. Boosted artificial intelligence model using improved alpha-guided grey wolf optimizer for groundwater level prediction: Comparative study and insight for federated learning technology

141. Multiple machine learning models for prediction of CO2 solubility in potassium and sodium based amino acid salt solutions

142. Mutating fuzzy logic model with various rigorous meta-heuristic algorithms for soil moisture content estimation

143. A new insight for real-time wastewater quality prediction using hybridized kernel-based extreme learning machines with advanced optimization algorithms

144. Texture analysis based graph approach for automatic detection of neonatal seizure from multi-channel EEG signals

145. The role of amino acid functionalization for improvement of adsorption Thioguanine anticancer drugs on the boron nitride nanotubes for drug delivery

146. An Eigenvalues-Based Covariance Matrix Bootstrap Model Integrated With Support Vector Machines for Multichannel EEG Signals Analysis

147. Prediction of Successful Induction of Labor using Ultrasonic Fetal Parameters

148. Heat transfer and hemodynamic analysis of systolic and diastolic hypertension on abdominal aortic thrombosis

149. Methylene blue photodegradation using as-synthesized CeO2 nanoparticles

150. Comparison of machine learning techniques for predicting porosity of chalk

151. Hydrothermal and energy analysis of flat plate solar collector using copper oxide nanomaterials with different morphologies: Economic performance

152. FRACTIONAL ORDER MODEL FOR THE CORONAVIRUS (COVID-19) IN WUHAN, CHINA

153. JENSEN-MERCER INEQUALITY and RELATED RESULTS in the FRACTAL SENSE with APPLICATIONS

154. Daily scale evapotranspiration prediction over the coastal region of southwest Bangladesh: new development of artificial intelligence model

155. Quality Control Study of Different Products from Famotidine Tablets in the Iraqi Market [Estudio de Control de Calidad de Diferentes Productos de Tabletas de Famotidina en el Mercado Iraquí]

156. Evaluate the Development of Medical Tourism by Cognitive Mapping Technique

157. Investigating the relationship between land alteration and the urban heat island of Seville city using multi-temporal Landsat data

158. Aptamer Based Nanoprobes for Detection of Foodborne Virus in Food and Environment Samples: Recent Progress and Challenges

159. Prediction of hydropower generation via machine learning algorithms at three Gorges Dam, China

160. Protective effects of summer savory (Satureja hortensis) oil on growth, biochemical, and immune system performance of common carp exposed to pretilachlor herbicide

161. The Impact of Knowledge-based Economy on the Economic Growth of Middle Eastern Countries

162. Analyzing food production risk with Monte Carlo simulation

163. Developing Smart Self Orienting Solar Tracker for Mobile PV Power Generation Systems

164. Evaluating the hydrophilic antioxidant capacity in different citrus genotypes

165. Application of Vortex Generators to Remove Heat Trapped in Closed Channels

166. THE IMPACT OF KINESIOTAPING COLOR ON PHYSICAL PERFORMANCE IN ADOLESCENT SOCCER PLAYERS IN ANKLE INJURIES

167. EFFECTS OF KINESIO TAPING ON FUNCTIONAL PERFORMANCE AND ANTERIOR CRUCIATE LIGAMENT RUPTURE IN JUVENILE FEMALE SOCCER PLAYERS

168. **Forecasting Daily Flood Water Level Using Hybrid Advanced Machine Learning Based Time-Varying Filtered Empirical Mode Decomposition Approach**
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170. **The deciphering of the immune cells and marker signature in COVID-19 pathogenesis: An update**
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176. **A Multi-Objective Mathematical Model for the Population-Based Transportation Network Planning**
177. **Developing a robust model to predict depth of anesthesia from single channel EEG signal**
178. **Smartphone-Based Techniques Using Carbon Dot Nanomaterials for Food Safety Analysis**

179. **DFT investigation of BN, AlN, and SiC fullerene sensors for arsine gas detection and removal**

180. **Magnetic CeO2/SrFe12O19 Nanocomposite: Synthesis, Characterization and Photocatalytic Degradation of Methyl Orange**

181. **Investigating the effect of Islamic values on citizenship behaviours of Muslim citizens**

182. **Cloud computing and IoT integration for health checking system**
183. **An Investigation for Heavy Metals' Contamination in Farmers' Fingernails: Case Study in Libya**

184. **Zinc (II) complex immobilized on the surface of magnetic nanoparticles modified with phenanthroline: A novel and efficient nanomagnetic reusable catalyst for cross-coupling reaction of aryl iodides with terminal aromatic alkynes**

185. **Projecting spatiotemporal changes of precipitation and temperature in Iraq for different shared socioeconomic pathways with selected Coupled Model Intercomparison Project Phase 6**

186. **The effects of alloying composition on plasticity and strength of notched metallic glasses**

187. **Investigating the Effect of Using Game-Based Learning on EFL Learners' Motivation and Anxiety**

188. **The impact of Islamic work ethics on organisational culture among Muslim staff**

189. **Overview of risk factors in the use of antihypertensive biomaterials drugs in medical prescriptions**

190. **Study Effect of Nitro group on Some Properties Polycyclic Aromatic Hydrocarbons (Anthracene; Phenanthrene)**

191. **The Effects of Temperature and Impact Velocity on the Shock Wave Response of Pore-Embedded Metallic Glasses**

192. **Study the Effect of Dielectric Permittivity and Changing Substrates Material on Microstrip Patch Antenna**

193. **Design and Implementation of DWDM-FSO system for Tbps data rates with different atmospheric Attenuation**

194. **A Mixed Hierarchical Topology To Ameliorate The Efficiency Of Wireless Sensor Networks: A Survey**

195. **A GIS-based Network Analysis for Truck Vehicles in Baghdad's City Road Network**

196. **Study on herbicide residues in soybean processing based on UPLC-MS/MS detection**

197. **Evaluation of food processing with the management of food, water, and energy nexus in Baghdad, Iraq**

198. **Integration of Multiple Models with Hybrid Artificial Neural Network-Genetic Algorithm for Soil Cation-Exchange Capacity Prediction**

199. **Magnetic Nanoparticles Modified With di(Pyridin-2-yl)Amine Ligand Supported Copper Complex: A Novel and Efficient Magnetically Reusable Catalyst for A3 Coupling and C-S Cross-Coupling Reactions**

200. **Magnetic nanoparticles supported zinc (II) complex (Fe3O4@SiO2-Imine/Thio-Zn(OAc)2): a green and efficient magnetically reusable zinc nanocatalyst for synthesis of nitriles via cyanation of aryl iodides**

201. **In-vitro evaluation of anticancer activity of natural flavonoids, apigenin and hesperidin**

202. **Novel Optical Soliton Waves in Metamaterials with Parabolic Law of Nonlinearity via the IEFM and ISEM**

203. **Design a promising non-precious electro-catalyst for oxygen reduction reaction in fuel cells**

204. **MALL and EFL Learners' Speaking: Impacts of Duolingo and WhatsApp Applications on Speaking Accuracy and Fluency**

205. **Cyanobacteria blue-green algae prediction enhancement using hybrid machine learning–based gamma test variable selection and empirical wavelet transform**

206. **Effect of Sr+ ion Concentration on Microstructure and Dielectric properties of Barium Strontium Titanate Ceramics**

207. **Magnetic Nanoparticles Supported Copper Nanocomposite: A Highly Active Nanocatalyst for Synthesis of Benzothiazoles and Polyhydroquinolines**

208. **Delineation of urban expansion influences urban heat islands and natural environment using remote sensing and GIS-based in industrial area**

209. **Clockwise and counter clockwise 6 & 9 year geostrophic MC (& Rossby) waves in centre of the mechanism of geomagnetic jerks and relevant LODs**

210. **Theoretical and experimental studies of copper(II) and nickel(II) complexes derived from the ligand N-benzyl benzimidazole as corrosion inhibitors in ionic and bacterial media**

211. **Investigating fullerene-oxide nanostructure as an adsorbent of ammonia: Complexation efficiency by density functional theory**

212. **N-Lump to the (2+1)-Dimensional Variable-Coefficient Caudrey–Dodd–Gibbon–Kotera–Sawada Equation**

213. **Removal of heavy metals using food industry waste as a cheap adsorbent**

214. **Optimization of raw material properties of natural starch by food glue based on dry heat method**

215. **The role of fat-producing yeasts in reducing food industry waste**

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217. **Orodispersible Tablets: A Review on Recent Trends in Drug Delivery**

218. **Copper (II) complex supported on the surface of magnetic nanoparticles modified with S-benzylisothiourea (Fe3O4@SiO2-SMTU-Cu): A new and efficient nanomagnetic catalyst for the synthesis of quinazolines and amides**

219. **Optimizing Fluid Flow Cooling in Gas Transmission Systems**

220. **Student Performance Predictions for Advanced Engineering Mathematics Course With New Multivariate Copula Models**

221. **High School Students' Attitudes towards E-Learning and Impacts of Online Instruction on Their General English Learning: Challenges and Issues**

222. **Assessing the Effects of Gamification on Developing EFL Learners' Idiomatic Knowledge: Do Attitudinal Factors Contribute to the Learning of the Idioms with the Game?**

223. **Spectrophotometric determination of folic acid using 1,10-phenanthroline materials with ninhydrin reagent**

224. **Effect of lamination layer thickness and abutment preparation on the fit of Co-Cr multi-unit prostheses fabricated by additive manufacturing: An in vitro study**

225. **A review on material analysis of food safety based on fluorescence spectrum combined with artificial neural network technology**

226. **Manakov model of coupled NLS equation and its optical soliton solutions**

227. **The Effect of Firing Cycles on the Fit of Cobalt-Chromium Multiunit Prostheses Fabricated by Additive Manufacturing**

228. **Reading Digital Texts vs. Reading Printed Texts: Which One Is More Effective in Iranian EFL Context?**

229. **Comparing the Effectiveness of Massive Open Online Course (MOOC) and Flipped Instruction on EFL Learners' Reading Comprehension**

230. **A Review of High-Energy Density Lithium-Air Battery Technology: Investigating the Effect of Oxides and Nanocatalysts**

231. **Agriculture in Developing Countries: Cultural Differences, Vectors of Sustainable Development, Digitalization, and International Experience**

232. **Environmental and Energy Efficiency as a Criterion for Sustainable Agriculture**

233. **Scrutinizing the Effects of e-Learning on Enhancing EFL Learners' Reading Comprehension and Reading Motivation**

234. **An Empirical Study on the Effects of Using Kahoot as a Game-Based Learning Tool on EFL Learners' Vocabulary Recall and Retention**

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237. **Investigation of parameters in restaurant food waste for use as poultry rations**

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239. **Assessment effects and risk of nosocomial infection and needle sticks injuries among patents and health care worker**

240. **Grasshopper Optimization Algorithm with Crossover Operators for Feature Selection and Solving Engineering Problems**

241. **Heat transfer and fluid flow analysis over the microscale backward-facing step using βGa2O3 nanoparticles**

242. **The Comparative Effect of Online Instruction, Flipped Instruction, and Traditional Instruction on Developing Iranian EFL Learners' Vocabulary Knowledge**

243. **Anticancer Drug-Loading Capacity of Green Synthesized Porous Magnetic Iron Nanocarrier and Cytotoxic Effects Against Human Cancer Cell Line**

244. **Combined Effects of Annealing and Cyclic Loading on Structural Rejuvenation and Mechanical Properties of CuZr Metallic Glass: A Molecular Dynamics Study**

245. **Deep learning versus gradient boosting machine for pan evaporation prediction**

246. **Ir-decorated gallium nitride nanotubes as a chemical sensor for recognition of mesalamine drug: a DFT study**

247. **Prediction of Fractures and Cracks to Improve the Drilling Operations**

248. **A novel intelligent deep learning predictive model for meteorological drought forecasting**

249. **Maximization of Water Productivity and Yield of Two Iceberg Lettuce Cultivars in Hydroponic Farming System Using Magnetically Treated Saline Water**

250. **Determinant of Covariance Matrix Model Coupled with AdaBoost Classification Algorithm for EEG Seizure Detection**

251. **Study on Uncertainty Analysis for Drilling Engineering Applications: Wellbore Stability Assessments**

252. **Discharge coefficient prediction of canal radial gate using neurocomputing models: an investigation of free and submerged flow scenarios**

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254. **Positive parity low-spin states of even–odd 129−133Ba isotopes**

255. Fractal fractional derivative on chemistry kinetics hires problem
256. Effects of binary hybrid nanofluid on heat transfer and fluid flow in a triangular-corrugated channel: An experimental and numerical study
257. Performance evaluation of analytical methods in linear flow data for hydraulically-fractured gas wells
258. Integration of extreme gradient boosting feature selection approach with machine learning models: application of weather relative humidity prediction
259. Cross-Linked Chitosan-Glyoxal/Kaolin Clay Composite: Parametric Optimization for Color Removal and COD Reduction of Remazol Brilliant Blue R Dye
260. The assessment of emerging data-intelligence technologies for modeling Mg+2 and SO4−2 surface water quality
261. Alpha-1antitrypsin in pre-eclampsia; from a clinical perspective
262. Synthesis, characterization and photodegradation studies of copper oxide–graphene nanocomposites
263. Advanced binder-free electrode based on cuco2o4 nanowires coated with polypyrrole layer as a high-performance nonenzymatic glucose sensing platform
264. Projection of agricultural water stress for climate change scenarios: A regional case study of Iraq
265. The effects of Ni or Nb additions on the relaxation behavior of Zr55Cu35Al10 metallic glass
266. New classifications of nonlinear Schrödinger model with group velocity dispersion via new extended method
267. Meshless method based on RBFs for solving three-dimensional multi-term time fractional PDEs arising in engineering phenomenons
268. A thermal conductivity model for hybrid heat and mass transfer investigation of single and multi-wall carbon nano-tubes flow induced by a spinning body
269. Streamflow prediction using an integrated methodology based on convolutional neural network and long short-term memory networks

270. Deep Learning for Prediction of Water Quality Index Classification: Tropical Catchment Environmental Assessment
271. Integration of complete ensemble empirical mode decomposition with deep long short-term memory model for particulate matter concentration prediction
272. Effect of Water Flooding on Oil Reservoir Permeability: Saturation Index Prediction Model for Giant Oil Reservoirs, Southern Iraq
273. Variational mode decomposition based random forest model for solar radiation forecasting: New emerging machine learning technology
274. An accelerated gradient-based optimization development for multi-reservoir hydropower systems optimization
275. Frictional pressure drop and cost savings for graphene nanoplatelets nanofluids in turbulent flow environments
276. Influence of different rotations of organic formamidinium molecule on electronic and optical properties of FAPbBr3 perovskite
277. Outdoor thermal comfort optimization through vegetation parameterization: Species and tree layout

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392. **Isolation and diagnosis of some bacteria that cause urinary tract infection and the effect of some antibiotics on them in nasiriyah in the shattera general hospital**
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396. **Estimating the Concentration of Heavy Elements in Some Types of Imported and Local Wheat Flour used in Bakeries of Wasit Governorate**
397. **Biomarker Indicators Of Source Rocks And Depositional Environment For The Crude And Extract Oil From Fatha (Lower Fars) And Ghar Formation Of Selected Oil Fields Of South Iraq And Middle Euphrates**
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427. **The role of Brain Natriuretic Peptide in evaluating Left Ventricle function among patient with chronic renal failure on maintenance hemodialysis: The impact of body mass index**

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438. **The Annual Inhalation Radiation Effective Dose Estimations for Hookah Tobacco Smoking of Baghdad's Publics**

439. **Critical Point of the 152Sm, 154Gd, and 156Dy Isotones**

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441. **Synthesis, characterization and antibacterial studies of some new tellurated azo compounds**

442. **Temporomandibular Joint Orthopedics Design Using Shape and Topology Optimization**

443. **Shape And Topology Optimization Design For Total Hip Joint Implant**

444. **Fatigue Life Extending For Temporomandibular Plate Using Non Parametric Cascade Optimization**

445. **CYCLIN-DEPENDENT KINASE INHIBITORS AS TARGETED THERAPY IN BREAST CANCER**

446. **Study of the role of polyphenolic extract of Capparis spinosa L. Leaves as acute toxicity and antibacterial agent**

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448. **Effect of lead metal stress on antioxidant genes expression in leaves of sunflower (Helianthus annuus L. Cv. Aqmar) plants**

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