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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Imperial College of Science, Technology and Medicine, İnşaat Mühendisliği, İngiltere 1972 - 1974

Lisans, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 1965 - 1971

Yaptığı Tezler

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- I. **Standard precipitation-temperature index (SPTI) drought identification by fuzzy c-means methodology**
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- II. **Moving Trend Analysis Methodology for Hydro-meteorology Time Series Dynamic Assessment**
ŞEN Z.
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- III. **Updated Talbot Method for Culvert Design Discharge Prediction**
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- IV. **Projected Changes in Extreme Precipitation Patterns across Algerian Sub-Regions**
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- V. **Probabilistic standardization index adjustment for standardized precipitation index (SPI)**
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- VI. **Multiple Risk Trend Identification with Seesaw Methodology in Hydrometeorology Time Series**
ŞEN Z.
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- VII. **Risk attachment Sen's Slope calculation in hydrometeorological trend analysis**
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- VIII. **Assessing Wet and Dry Periods Using Standardized Precipitation Index Fractal (SPIF) and Polygons: A Novel Approach**
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- IX. **Fuzzy standardized precipitation index (FSPI) for drought early warning procedure**
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- X. **Flood risk mapping using multi-criteria analysis (MCA) through AHP method case of El-Ham wadi watershed of Hodna basin (Algeria)**
Belazreg N. E. H., Hasbaia M., ŞEN Z., Ferhati A.
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- XI. **Synthesis of green anode material for lithium-ion battery from orthodontic waste by fuzzy logic**
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- XII. **Innovative Equivalent Elastic Modulus Based Stress Calculation Methodology for Reinforced Concrete Columns**
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- XIII. **Markov Chain transition probability modeling of radon gas records and future projection possibility determination**
Bilici A., Kùlahcı F., Bilici S., ŞEN Z.
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- XIV. **Longitudinally and laterally trench supporting subsurface dam innovative design procedures**
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- XV. **Hydrological Methodology Evolution for Runoff Estimations at Ungauged Sites**
Şen Z.
WATER, cilt.15, sa.4, 2023 (SCI-Expanded)
- XVI. **Successive probable maximum precipitation (SPMP) methodology and applications**
ŞEN Z.
Meteorology and Atmospheric Physics, cilt.134, sa.6, 2022 (SCI-Expanded)
- XVII. **Hydroelectric energy potential classification via hypsographical curve concept**
Şen Z.
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- XVIII. **North coast Algerian rainfall monthly trend analysis using innovative polygon trend analysis (IPTA)**
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- XIX. **Innovative standard degree-day indicator (SDI) concept and application for monthly energy consumption control**
Şen Z.
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- XX. **Cumulative Ordinary Kriging interpolation model to forecast radioactive fallout, and its application to Chernobyl and Fukushima assessment: a new method and mini review**
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- XXI. **Crossing empirical trend analysis (CETA) at risk levels in hydro-meteorological time series**
ŞEN Z.
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- XXII. **Probable maximum precipitation (PMP) and flood (PMF) risk charts in Hodna basin, Algeria**
Zeroual S., Şen Z., Boutaghane H., Hasbaia M., Zeroual A.
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- XXIII. **Wet and dry period identification method through serial correlation decomposition**
ŞEN Z.
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- XXIV. **Extreme value innovative trend analysis methodology**
ŞEN Z.
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- XXV. **Innovative multi-cross trend model and application**
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- XXVI. **A new innovative method for model efficiency performance**
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- XXVII. **Peak flow assessment of El-Ham wadi in Hodna basin case study**
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- XXVIII. **Discussion "A probability distribution for hydrological drought duration"**
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- XXIX. **Wind quality designation concept and application**
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- XXX. **Reservoirs for Water Supply Under Climate Change Impact—A Review**
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- XXXI. **Monthly extreme rainfall risk envelope graph method development and application in Algeria**
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- XXXII. **Jump point identification in hydro-meteorological time series by crossing methodology**
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- XXXV. **Improved standard precipitation index and drought characteristics**
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- XXXVII. **Water Structures and Climate Change Impact: a Review**
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Şen Z.
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- XL. **Smart home innovative heat test analysis for heat storage and conductivity coefficients**

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- XLII. **Up-to-date statistical essentials in climate change and hydrology: A review**
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- XLIII. **Probabilistic innovative trend analysis**
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- XLV. **Climate change expectations in the upper Tigris River basin, Turkey**
Şen Z.
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- XLVI. **Partial trend identification by change-point successive average methodology (SAM)**
Şen Z.
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- XLVII. **Innovative methodologies in renewable energy: A review**
Şen Z.
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- XLVIII. **Air quality (AQ) identification by innovative trend diagram and AQ index combinations in Istanbul megacity**
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- XLIX. **Precipitation projections under GCMs perspective and Turkish Water Foundation (TWF) statistical downscaling model procedures**
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- L. **Discussion on "Modeling karst spring hydrograph recession based on head drop at sinkholes" by Guangquan, Li, Nico Goldscheider, Malcom S. Field**
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- LII. **Standard aerosol optical depth index and application in the middle east countries**
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- LIII. **Noah and Joseph effects: Floods and droughts under global warming**
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- LIV. **Crossing trend analysis methodology and application for Turkish rainfall records**
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- LV. **Engineering risk assessment on water structures under climate change effects**
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- LVI. **Long-term spatio-temporal drought variability in Turkey**
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- LVII. **Innovative trend significance test and applications**
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- LVIII. **Probabilistic innovative solar irradiation estimation**
 Sen Z.
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- LIX. **Innovative Trend Methodology Applications to Precipitation Records in Turkey**
 Oztopal A., Sen Z.
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- LX. **Strategic management of groundwater resources in the Arabian Peninsula: Wadi Na'man case**
 Şen Z., As-Sefry S., Al-Harithy S.
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- LXI. **Hydrological trend analysis with innovative and over-whitening procedures**
 Şen Z.
 Hydrological Sciences Journal, cilt.62, sa.2, ss.294-305, 2017 (SCI-Expanded)
- LXII. **Probable maximum precipitation and flood calculations for Jeddah area, Kingdom of Saudi Arabia**
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- LXIII. **Regional fuzzy chain model for evapotranspiration estimation**
 Guclu Y. S., Subyani A. M., Sen Z.
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- LXIV. **Climate Change Impact on Monthly Precipitation Wet and Dry Spells in Arid Regions: Case Study over Wadi Al-Lith Basin**
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- LXV. **Global warming quantification by innovative trend template method**
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- LXVI. **Trend Assessment by the Innovative-Sen Method**
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- LXVII. **Hydrograph estimation with fuzzy chain model**
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- LXVIII. **Hydroelectric Energy Potential of Turkey: A Refined Calculation Method**
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- LXIX. **Algerian rainfall innovative trend analysis and its implications to Macta watershed**
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- LXX. **Regional Wet and Dry Spell Analysis with Heterogeneous Probability Occurrences**
 Sen Z.
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- LXXI. **HARmonic-LINear (HarLin) model for solar irradiation estimation**
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- LXXII. **Spatiotemporal modeling and simulation of chernobyl radioactive fallout in northern Turkey**
 Niksarlioglu S., Kulahci F., Şen Z.

- JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, cilt.303, sa.1, ss.171-186, 2015 (SCI-Expanded)
- LXXIII. **Spatially heterogeneous drought analysis theory and future trends**
Şen Z.
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- LXXIV. **Rock quality designation-fracture intensity index method for geomechanical classification**
Şen Z.
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- LXXV. **New combined models for estimating daily global solar radiation from measured air temperature in semi-arid climates: Application in Ghardaia, Algeria**
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- LXXVII. **Hydraulic conductivity variation in a confined aquifer**
Şen Z.
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- LXXVIII. **Dimensionless straight line fitting method for hydrogeological parameter determination**
Şen Z.
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- LXXIX. **On the Correction of Spatial and Statistical Uncertainties in Systematic Measurements of ^{222}Rn for Earthquake Prediction**
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- LXXX. **Sediment yield estimation formulations for arid regions**
Şen Z.
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- LXXXI. **Theoretical derivation of precipitation coverage probability from a set of heterogeneous point probabilities**
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- LXXXII. **Wind power variations under humid and arid meteorological conditions**
Şen Z.
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- LXXXIII. **Strategic groundwater resources planning in arid regions**
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- LXXXV. **Perturbed effects at radiation physics**
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- LXXXVI. **Modified wind power formulation and its comparison with Betz limits**
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Şen Z., Wagdani E.
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- LXXXVIII. **Urban climate change impact and Istanbul Water Consensus**

- Sen Z.
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- LXXXIX. **Ancient water robotics and Abou-l Iz Al-Jazari**
Sen Z.
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