

قرار گرفتن ۲۴ مقاله اعضای هیئت علمی و دانشجویان تحصیلات تکمیلی دانشگاه لرستان در فهرست مقالات داغ (Hot Papers) و پراستناد (Highly Cited Papers) پایگاه استنادی Web of Science

 <p><b>زینب بیگلری</b> دانشکده علوم پایه گروه آموزشی شیمی-فیزیک</p> <p><b>2020</b></p>	 <p><b>اشکان بنان</b> دانشکده کشاورزی گروه آموزشی علوم و مهندسی محیط زیست و شیلات</p> <p><b>2020</b></p>	 <p><b>احسان مومنی</b> دانشکده فنی و مهندسی گروه آموزشی مهندسی عمران</p> <p><b>2021 &amp; 2022</b> ۲ مقاله</p>	 <p><b>علی فرمانی</b> دانشکده فنی و مهندسی گروه آموزشی مهندسی برق الکترونیک</p> <p><b>2019 &amp; 2020</b> ۲ مقاله</p>	 <p><b>امین طاهری گراوند</b> دانشکده کشاورزی گروه آموزشی مهندسی مکانیک بوسیستم</p> <p><b>2020 &amp; 2021</b> ۲ مقاله</p>	 <p><b>محسن ایزدی</b> دانشکده فنی و مهندسی گروه آموزشی مهندسی مکانیک</p> <p><b>2018, 2019 &amp; 2020</b> ۶ مقاله</p>
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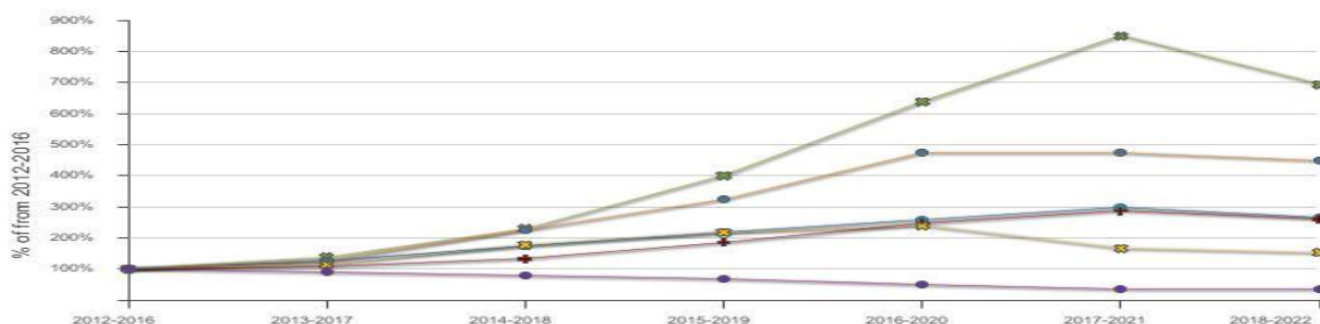


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An optimized system of GMDH-ANFIS predictive model by ICA for estimating pile bearing capacity

By: Armaghani, DJ (Armaghani, Danial Jahed) [1]; Harandizadeh, H (Harandizadeh, Hooman) [2]; Momeni, E (Momeni, Ehsan) [3]; Maizir, H (Maizir, Harnedi) [4]; Zhou, J (Zhou, Jian) [5]

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ARTIFICIAL INTELLIGENCE REVIEW

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<input type="checkbox"/> 1 	<p><b>Three-dimensional FDTD analysis of a nanostructured plasmonic sensor in the near-infrared range</b></p> <p><a href="#">Farmanj, A</a> Feb 1 2019   <a href="#">JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS</a> 36 (2) , pp.401-407</p> <p>Finding new ways to access the nanoscale and high-Q-factor plasmonics resonance remains a major challenge in the field of plasmonic metasurfaces. In the present paper, we aim to report a nanoscale gold metasurface containing structure to realize high-quality plasmon-induced transparency (PIT) responses. The properties of the proposed model are numerically investigated with different physical pa ... Show more</p> <p><a href="#">Full Text at Publisher</a> ***</p>	<p>77 Citations</p> <hr/> <p>59 References</p> <hr/> <p>Related records</p>
<input type="checkbox"/> 2 	<p><b>A label-free graphene-based nanosensor using surface plasmon resonance for biomaterials detection</b></p> <p><a href="#">Farmanj, H</a>; <a href="#">Farmani, A</a> and <a href="#">Bjglari, Z</a> Feb 2020   <a href="#">PHYSICA E-LOW-DIMENSIONAL SYSTEMS &amp; NANOSTRUCTURES</a> 116</p> <p>Graphene biosensors have received more and more attention over the past two decades in the modern fields including labeled, and label-free sensing owing to their ability to harness of electromagnetic fields in a fantastic way. Among these, label-free graphene plasmonic biosensors have been received significant attention for nano-scale applications. The main aim of this work is to study the dete ... Show more</p> <p><a href="#">Full Text at Publisher</a> ***</p>	<p>51 Citations</p> <hr/> <p>77 References</p> <hr/> <p>Related records</p>
<input type="checkbox"/> 3 	<p><b>Flood susceptibility mapping using frequency ratio and weights-of-evidence models in the Golastan Province, Iran</b></p> <p><a href="#">Rahmatj, Q</a>; <a href="#">Pourghasemi, HR</a> and <a href="#">Zeinivand, H</a> Jan 2 2016   <a href="#">GEOCARTO INTERNATIONAL</a> 31 (1) , pp.42-70</p> <p>Flood is one of the most devastating natural disasters with socio-economic and environmental consequences. Thus, comprehensive flood management is essential to reduce the flood effects on human lives and livelihoods. The main goal of this study was to investigate the application of the frequency ratio (FR) and weights-of-evidence (WofE) models for flood susceptibility mapping in the Golestan Pr ... Show more</p> <p><a href="#">Full Text at Publisher</a> ***</p>	<p>196 Citations</p> <hr/> <p>130 References</p> <hr/> <p>Related records</p>
<input type="checkbox"/> 4 	<p><b>Investigation of MHD natural convection in a porous media by double MRT lattice Boltzmann method utilizing MWCNT-Fe3O4/water hybrid nanofluid</b></p> <p><a href="#">Sajjadi, H</a>; <a href="#">Delouei, AA</a>; (...); <a href="#">Mohebbi, R</a> Apr 2019   <a href="#">INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER</a> 62 (10) , pp.3107-3124</p>	<p>86 Citations</p> <hr/> <p>54</p>

□ 5 **Employment of artificial neural networks for non-invasive estimation of leaf water status using color features: a case study in *Spathiphyllum wallisii***

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[Taheri-Garavand, A; Nejad, AR; \(...\); Majd, MA](#)  
May 2021 | [ACTA PHYSIOLOGIAE PLANTARUM](#) 43 (5)

The potential of combining artificial neural networks (ANNs) and image processing for assessing leaf relative water content (RWC) and water content (WC) was addressed. *Spathiphyllum wallisii* was employed as model species, because it has broad leaves and very responsive stomata. In the course of desiccation, leaves were periodically weighted (to calculate RWC and WC conventionally) and imaged. I ... Show more

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□ 6 **Prediction of the landslide susceptibility: Which algorithm, which precision?**

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[Pourghasemi, HR and Rahmati, O](#)  
Mar 2018 | [CATENA](#) 162 , pp.177-192

Coupling machine learning algorithms with spatial analytical techniques for landslide susceptibility modeling is a worth considering issue. So, the current research intend to present the first comprehensive comparison among the performances of ten advanced machine learning techniques (MLTs) including artificial neural networks (ANNs), boosted regression tree (BRT), classification and regression ... Show more

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□ 7 **Aminochelates in plant nutrition: a review**

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[Souri, MK and Hatamian, M](#)  
Jan 2 2019 | [JOURNAL OF PLANT NUTRITION](#) 42 (1) , pp.67-78

Chelates are compounds that are applied to improve nutrition, especially the micronutrients status of plant tissues. During past decades, various chelating agents have been synthesized and introduced to agricultural systems. The recent formulas are amino-chelates that are synthesized using various amino acids and a single or several nutrient ions aimed at improving fertilizer use efficiency and ... Show more

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□ 8 **An efficient optimal neural network based on gravitational search algorithm in predicting the deformation of geogrid-reinforced soil structures**

29

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[Momeni, E; Yarivand, A; \(...\); Armaghani, DJ](#)  
Jan 2021 | [TRANSPORTATION GEOTECHNICS](#) 26

The deformation of a Geosynthetic reinforced soil (GRS) structure is a key factor in designing this type of retaining structures. On the other hand, the feasibility of artificial intelligence techniques in solving geotechnical engineering problems is underlined in literature. This paper is aimed to show the workability of two soft computing techniques in predicting the deformation of GRS struct ... Show more



- 9 **Natural convection of a magnetizable hybrid nanofluid inside a porous enclosure subjected to two variable magnetic fields** 95 Citations  
 [Izadi, M;](#) [Mohebbi, B;](#) (...); [Sajjadi, H](#)  
 Feb 2019 | [INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES](#) 151 , pp.154-169 66 References  
 This problem deals with natural convective heat transfer of a magnetic nanofluid in a porous medium subjected to two variable magnetic sources. In many industrial processes, heat transfer is affected by magnetic sources. The equations governing the problem were solved, using the finite element method. The study results were compared to literature ones and a very good consistency was found. The ... Show more  
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- 10 **Deep learning-based appearance features extraction for automated carp species identification** 62 Citations  
 [Banan, A;](#) [Nasiri, A](#) and [Taheri-Garavand, A](#)  
 May 2020 | [AQUACULTURAL ENGINEERING](#) 89 50 References  
 Fish species identification is vital for aquaculture and fishery industries, stock management of water bodies and environmental monitoring of aquatics. Traditional fish species identification approaches are costly, time consuming, expert-based and unsuitable for large-scale applications. Hence, in this study, a deep learning neural network as a smart, real-time and non-destructive method was de ... Show more  
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- 11 **River suspended sediment modelling using the CART model: A comparative study of machine learning techniques** 137 Citations  
 [Choubin, B;](#) [Darabi, H;](#) (...); [Klove, B](#)  
 Feb 15 2018 | [SCIENCE OF THE TOTAL ENVIRONMENT](#) 615 , pp.272-281 89 References  
 Suspended sediment load (SSL) modelling is an important issue in integrated environmental and water resources management, as sediment affects water quality and aquatic habitats. Although classification and regression tree (CART) algorithms have been applied successfully to ecological and geomorphological modelling, their applicability to SSL estimation in rivers has not yet been investigated. I ... Show more  
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- 12 **Natural convection of a hybrid nanofluid affected by an inclined periodic magnetic field within a porous medium** 55 Citations  
 [Izadi, M;](#) [Sheremet, MA](#) and [Mehryan, SAM](#)  
 Jun 2020 | [CHINESE JOURNAL OF PHYSICS](#) 65 , pp.447-458 44 References  
 Heat transfer enhancement for various engineering systems can be achieved by the inclusion of metal nanoparticles inside the heat transfer liquid. Such an effect can be improved by considering the hybrid nanofluid when nanoparticles of different materials are added to the base fluid. The present study is devoted to computational analysis of thermal gravitational convection within a porous chamb ... Show more  
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13  Application of analytical hierarchy process, frequency ratio, and certainty factor models for groundwater potential mapping using GIS

[Razandi, Y](#); [Pourghasemi, HR](#); (...); [Rahmati, O](#)  
 Dec 2015 | [EARTH SCIENCE INFORMATICS](#) 8 (4) , pp.867-883

The main goal of this study was to investigate the analytical hierarchy process (AHP), frequency ratio (FR), and certainty factor (CF) models for groundwater potential mapping using geographical information system (GIS) at Varamin Plain, Tehran province, Iran. In the first step, the groundwater conditioning factors such as altitude, slope angle, slope aspect, topographic witness index, rainfall ... Show more

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14   TiO<sub>2</sub> nanocomposite based polymeric membranes: A review on performance improvement for various applications in chemical engineering processes

[Bet-moushoul, E](#); [Mansourpanah, Y](#); (...); [Tabatabaei, M](#)  
 Jan 1 2016 | [CHEMICAL ENGINEERING JOURNAL](#) 283 , pp.29-46

Recently, there have been considerable progresses in the development of membrane materials for various purposes, which in turn has increased the demand for new membranes with modified characteristics. One of the most versatile and effective modification approaches is the incorporation of metal oxide particles to enhance the performance of the membranes. Titanium oxide (TiO<sub>2</sub>) is one of the most ... Show more

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15   An analysis of farmers' intention to use green pesticides: The application of the extended theory of planned behavior and health belief model

[Ataei, P](#); [Gholamrezai, S](#); (...); [Aliabadi, V](#)  
 Jan 2021 | Jan 2021 (Early Access) | [JOURNAL OF RURAL STUDIES](#) 81 , pp.374-384

The use of chemical pesticides in agriculture has damaged agricultural land, fisheries, fauna, and flora. Furthermore, increased mortality and morbidity of humans due to the unsafe use of chemical pesticides are the most prevalent and serious occupational hazards faced by farmers. The present study aimed to examine farmers' intention to use green pesticides using two models - the theory of plan ... Show more

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16  Numerical simulation of natural convection heat transfer inside a perpendicular to shaped cavity filled by a MWCNT-Fe<sub>3</sub>O<sub>4</sub>/water hybrid nanofluids using LBM


[Izadi, M](#); [Mohebbi, B](#); (...); [Sheremet, MA](#)  
 Mar 2018 | [CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION](#) 125 , pp.56-66

Natural convection of multi-wall carbon nanotubes-Iron Oxide nanoparticles/water hybrid nanofluid (MWCNT-Fe<sub>3</sub>O<sub>4</sub>/water hybrid nanofluid) inside a perpendicular to shaped enclosure has been numerically investigated using Lattice Boltzmann Method. Numerical in-house code has been developed to study the effects of different parameters including the nanoparticles volume fraction, the Rayleigh number, ... Show more

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17 **Application of GIS-based data driven random forest and maximum entropy models for groundwater potential mapping: A case study at Mehran Region, Iran** 267 Citations  
 [Rahmati, O](#); [Pourghasemi, HR](#) and [Melesse, AM](#)  
 Feb 2016 | [CATENA](#) 137 , pp.360-372 109 References


Groundwater is considered as the most important natural resources in arid and semi-arid regions. In this study, the application of random forest (RF) and maximum entropy (ME) models for groundwater potential mapping is investigated at Mehran Region, Iran. Although the RF and ME models have been applied widely to environmental and ecological modeling, their applicability to other kinds of predic ... Show more

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 Jan 2020 | [MICROCHEMICAL JOURNAL](#) 152 87 References



Sample preparation is an important step when working with extremely low concentrations of analytes and complex matrices. Conventional extraction methods consume large amounts of hazardous solvents, and for this reason are not in line with green analytical chemistry. In addition, these methods are unable determine trace levels of various compounds due to their low sensitivities. Solid phase micr ... Show more

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19 **Numerical study on natural convection of Ag-MgO hybrid/water nanofluid inside a porous enclosure: A local thermal non-equilibrium model** 92 Citations  
 [Mehryan, SAM](#); [Ghalambaz, M](#); (...) ; [Izadi, M](#)  
 May 1 2020 | [POWDER TECHNOLOGY](#) 367 , pp.443-455 60 References

This paper investigates the natural convection of Ag-MgO/water nanofluids within a porous enclosure using a Local Thermal Non-Equilibrium (LTNE) model. The Darcy model is applied to simulate the flow dynamics throughout the porous medium. Using non-dimensional parameters, the dimensionless form of the prevailing equations has been derived. Finally, the GalerIdn finite element method is utilized ... Show more

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20 **Improving Accuracy Estimation of Forest Aboveground Biomass Based on Incorporation of ALOS-2 PALSAR-2 and Sentinel-2A Imagery and Machine Learning: A Case Study of the Hyrcanian Forest Area (Iran)** 107 Citations  
  [Vafaei, S](#); [Soosani, J](#); (...) ; [Bui, DT](#)  
 Feb 2018 | [REMOTE SENSING](#) 10 (2) 103 References

The main objective of this research is to investigate the potential combination of Sentinel-2A and ALOS-2 PALSAR-2 (Advanced Land Observing Satellite -2 Phased Array type L-band Synthetic Aperture Radar-2) imagery for improving the accuracy of the Aboveground Biomass (AGB) measurement. According to the current literature, this kind of investigation has rarely been conducted. The Hyrcanian fores ... Show more

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21 **A comparative assessment of GIS-based data mining models and a novel ensemble model in groundwater well potential mapping**



[Naghibi, SA](#); [Moghaddam, DD](#); (...); [Kisi, O](#)  
May 2017 | [JOURNAL OF HYDROLOGY](#) 548 , pp.471-483

In recent years, application of ensemble models has been increased tremendously in various types of natural hazard assessment such as landslides and floods. However, application of this kind of robust models in groundwater potential mapping is relatively new. This study applied four data mining algorithms including AdaBoost, Bagging, generalized additive model (GAM), and Naive Bayes (NB) models ... Show more

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22 **MHD thermogravitational convection and thermal radiation of a micropolar nanoliquid in a porous chamber**



[Izadi, M](#); [Sheremet, MA](#); (...); [Abu-Hamdeh, N](#)  
Jan 2020 | [INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER](#) 110

This work studies the thermogravitational transmission and thermal radiation of micropolar nanoliquid within a porous chamber in the presence of the uniform magnetic influence. The model includes the single-phase nanofluid approach, local thermal equilibrium approximation and Darcy law for the processes within the porous structure. The Galerkin finite element method with the structured non-unif ... Show more

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23 **The effect of sample size on different machine learning models for groundwater potential mapping in mountain bedrock aquifers**



[Moghaddam, DD](#); [Rahmati, O](#); (...); [Bui, DT](#)  
Apr 2020 | [CATENA](#) 187

Machine learning models have attracted much research attention for groundwater potential mapping. However, the accuracy of models for groundwater potential mapping is significantly influenced by sample size and this is still a challenge. This study evaluates the influence of sample size on the accuracy of different individual and hybrid models, adaptive neuro-fuzzy inference system (ANFIS), ANF ... Show more

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