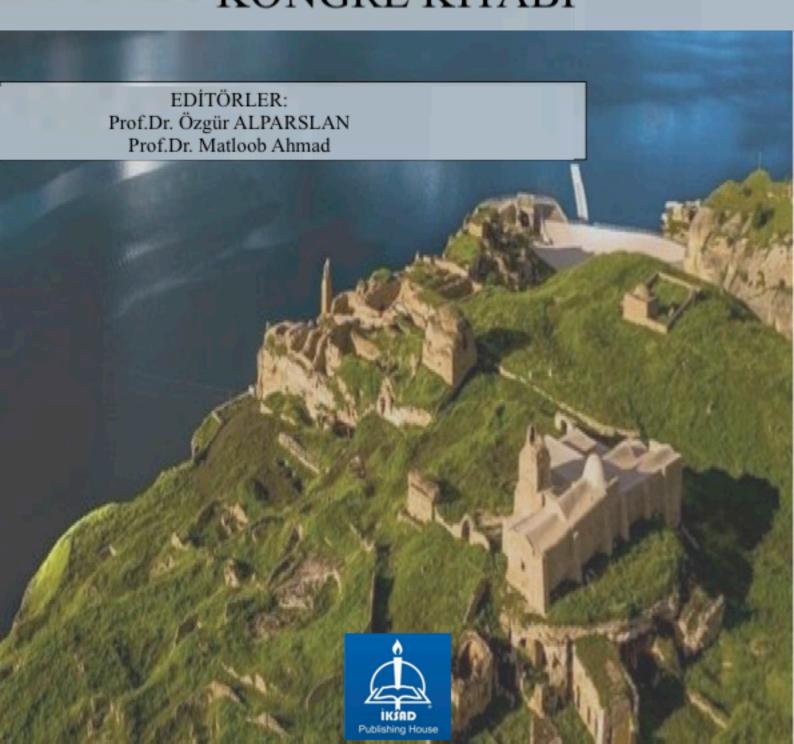


7.ULUSLARARASI HASANKEYF BİLİMSEL ARAŞTIRMALAR VE İNOVASYON KONGRESİ 23-24 ŞUBAT 2024 BATMAN KONGRE KİTABI





24.02.2024 SATURDAY / 12:30-15:00

SESSION-4 HALL-3

MODERATOR: Prof. Dr. Jamal Eddine Salhi

Africa/Afghanistan/ Azerbaijan/ Algeria/ Brazil/ English/ France/ Gurcistan/ Indonesia/ India/ Iran/ Japan/ Kazakhistan/ Kosovo/ Macedonia/ Malaysia/Morocco/ Nigeria/ Oman/ Pakistan /Portugal/ Romania /Russia/ Saudi Arabia/ Serbia/ Ukraine/

AUTHORS	AFFILIATION	TOPIC TITLE
	- '	
Hadj Mohamed OUNIS Abdelhafid OUNIS	Dr., Mostefa Ben Boulaid	Validation of Algerian Earthquake Regulations'
Abdemand OUNIS	University, Algeria Pr., Mohamed Khider	Compatibility with Seismic Base Isolation Techniques for Buildings: A Comparative Study
	University, Algeria	with International Codes.
Mohamed Aatabe	Ibn Zohr University,	A novel stochastic energy management strategy
Reda El Abbadi	Morocco	based on Markov decision process for photovoltaic
Reda El Abbadi	Wildiocco	micro-grid under unpredictable load consumption
Ph.D. Stanislav Dushkin	National University of Civil	Organization And Management Of Chemical
	Protection of Ukraine	Water Treatment Processes At Industrial
		Enterprises
Omar Britel*	Sidi Mohamed Ben Abdellah	Significant Improvement in the Electronic and
Asmae Fitri	University, Fez, Morocco	Photovoltaic Properties of Carbazole-Based
Adil Touimi Benjelloun		Organic Sensitizers for Solar Cells: A Theoretical
Mohammed Benzakour		Study
Mohammed Mcharfi		
M. Oubella	Université Ibn Zohr, Agadir,	Tailoring Surface Properties of Plexiglas for
S. Ben Jadi	Morocco	Enhanced Adhesion and Wettability
M. El Fazdoune	Avenue Oued Ziz, BP	
K. Bahend	Agadir, Morocco.	
E.A. Bazzaoui	Université Mohammed Ier,	
J.I. Martins	Morocco.	
R. Wang M. Bazzaoui	Rua Roberto Frias, Porto, Portuga.	
WI. Dazzaoui	Miyake, Saeki-ku,	
	Hiroshima, Japan	
Hmidi Nassreddine	Mohammed 1st, University	The Innovative U-shaped Aluminum Cold Plate
Prof. Dr. Jamal Eddine Salhi	Oujda, Morocco.	LiFePo 4 Battery Thermal Management System.
Prof. Dr. Alami Merrouni Ahmed	Abdelmalek	
Prof. Dr. Chaabelasri Elmiloud	EssaadiUniversity, Tetouan,	
	Morocco	
Prof. Dr. Syed Ali Raza Naqvi	Government College	Comparison Of Europium Doped Γ-Phase
Luqman Hakeem	University Faisalabad,	Alumina Synthesized By Glycothermal,
Muhammad Nadeem Lodhi Muhammad	Pakistan	Hydrothermal And Precipitation Methods By
Ramzan Saeed Ashraf Janjua		Using Simple Precursors

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ORGANIZATION AND MANAGEMENT OF CHEMICAL WATER TREATMENT PROCESSES AT INDUSTRIAL ENTERPRISES

Ph.D. Stanislav Dushkin National University of Civil Protection of Ukraine

ABSTRACT

The need for industrial water treatment processes, or water preparation for industrial enterprises, is explained by significant trends of modernity. Technologies are constantly evolving, new requirements are being put forward for raw materials and auxiliary materials for various technological stages. All tasks related to water treatment that enterprises will have to solve in the course of their work can be grouped into two major categories. The first focuses on ensuring maximum process efficiency, while the second involves creating products of proper quality.

Water, as a valuable resource for the technological process, can perform several functions: raw material for the production of food, pharmaceutical, cosmetic, chemical, paper, and other products, directly affecting their quality level; technological working material for creating solutions, equipment washing, etc., which is important for equipment (often expensive), its service life, and to some extent for the quality of the products produced; circulating (repeatedly involved in technological processes) water necessary for the functioning of heating and conditioning systems, for technical heating and cooling areas, and similar purposes, in order to increase the equipment's service life. The importance of the role of a chemical water treatment operator in ensuring the safe and efficient operation of water treatment systems at industrial enterprises is considered.

The requirements for the qualifications and duties of the operator, as well as the processes he performs to ensure the appropriate water quality in chemical technological processes, are described. Key aspects of chemical water treatment management and methods for dealing with possible problems are indicated. The "Chemical Water Treatment Operator" is responsible for the safe operation of the industrial enterprise's water treatment system and must know the rules of technical operation, technical safety rules, inter-industry rules on labor protection, general industrial safety rules, typical provisions on the chemical workshop, and other guiding and regulatory documents. The qualification characteristics of the "Chemical Water Treatment Operator" include: shift handover and acceptance, equipment preparation for operation and startup, implementation of water treatment and water preparation processes, control of equipment and measuring instruments, completion and termination of water treatment and water preparation work. Work characteristics:

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- Conducting the process of chemical water treatment: according to the scheme of sedimentation with preliminary reagent treatment of water in clarifiers, according to the scheme of sedimentation on sodium cationite and hydrogen cationite filters.
- Conducting the process of water desalination and desilinization by ion exchange under the guidance of a more highly qualified operator.
- Regeneration of ion exchange filters with salt solutions, acids, alkalis.
- Regulation of technological process parameters based on measurement tool indicators and chemical analysis results.
- Determination of the quality indicators of desalinated water: silicon acid ions, sodium, conductivity. Starting and stopping serviced equipment.
- Identification and elimination of malfunctions in equipment and communications. Emergency situation liquidation.



CERTIFICATE of participant

This is to certify that

Ph.D. Stanislav Dushkin

In online and technical solo exhibition, recognition and appreciation of research contributions to

7. INTERNATIONAL HASANKEYF SCIENTIFIC RESEARCH AND INNOVATION CONGRESS 23-24 FEBRUARY 2024 BATMAN/TURKEY

with the paper entitled

"Organization And Management Of Chemical Water Treatment Processes At Industrial Enterprises"

Uzm. Yasemin AĞAOĞLU Head Of Congress Group

> Sefa Salih BİLDİRİCİ HEAD OF İSARC