

INTERNATIONAL EUROASIA
Congress on Scientific Researches and Recent Trends 10

February 16-17, 2023
Baku, Azerbaijan

ABSTRACT BOOK

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Editors

Prof. Dr. Gulzar IBRAHIMOVA
Merve KIDIRYUZ

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DATE AND PLACE

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Baku, Azerbaijan

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CONGRESS PROGRAM

February 16-17, 2023
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Meeting ID: 838 3544 5295
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17.02.2023 | HALL-6 | SESSION-3

Baku Local Time: 17^{00}-19^{30}

Ankara Local Time: 16^{00}-18^{30}

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AUTHORS	AFFILIATION	TOPIC TITLE
Onur UNLU Prof. Dr. Ayse AYTAC	*Hayat Kimya A.S., Department of Research and Development, Principal Researcher (Türkiye)* *Kocaeli University (Türkiye) Department of Chemical Engineering, (Türkiye)*	INVESTIGATION OF THE EFFECTS OF CALCIUM CARBONATE ADDITIVE IN PAPERMAKING
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Ali ALTUN Assist. Prof. Dr. Güventürk UĞURLU	*Kafkas University (Türkiye)*	THE STUDY OF STRUCTURE, NONLINEAR OPTICAL, VIBRATIONAL AND ELECTRONIC PROPERTIES OF (p - CARBAMOYLPHENYLE) BORONIC ACID MOLECULE
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Assist. Prof. Dr. Güventürk UĞURLU	*Kafkas University (Türkiye)*	THEORETICAL INVESTIGATION OF STRUCTURAL AND ELECTRONIC FEATURES OF (E)-4-((4-BROMOPHENYL)IMINOMETHYL)BENZONITRILE MOLECULE
Assist. Prof. Dr. Güventürk UĞURLU	*Kafkas University (Türkiye)*	THEORETICAL INVESTIGATION OF CONFORMATION ANALYSIS AND NONLINEAR OPTICAL PROPERTIES OF OROTIC ACID MOLECULE
Prof. Dr. Murat HATİPOĞLU Assist. Prof. Dr. Meltem GÜRBÜZ Lect. Başak GÜRSOY Assist. Prof. Dr. Volkan ÇİL	*Dokuz Eylül University (Türkiye)* *Mersin University (Türkiye)* *Dokuz Eylül University (Türkiye)* *Atatürk University (Türkiye)*	AN EXAMPLE OF CONSUMER PROTECTION IN FORENSIC- GEMOLOGY; THE DIFFERENCES BETWEEN TWO GREEN TYPES OF BERYL (Be 3 Al 2 Si 6 O 18) MINERAL WIDELY USED IN THE JEWELRY INDUSTRY (GREEN BERYL AND EMERALD) AND RAISING CONSUMER AWARENESS

Aghazade Shahri Adil	ELEKTRON HÖKUMƏT: İNTEQRASİYA EDİLMİŞ KONSEPTUAL ÇƏRÇİVƏ	16
Fatma İNCE SANCAKLI	GREEK STATE OF TRABZON (1204-1263)	18
Ali CENGİZ	INTERNATIONAL ECONOMIC AND SOCIAL COOPERATION UNDER THE UNITED NATIONS CHARTER	20
Gürkan AKDAĞ Aykut Göktuğ SOYLU	FOOD CULTURE IN PRE-ISLAMIC TURKISH EPICS	21
Merve Benan ASLAN Zeynep Bala DURANAY Servet TUNCER	SOLAR ENERGY POTENTIAL of TURKEY and SOLAR ENERGY APPLICATION AREAS	23
Murat HATİPOĞLU Meltem GÜRBÜZ Başak GÜRSOY Volkan ÇİL	AN EXAMPLE OF CONSUMER PROTECTION IN FORENSIC-GEMOLOGY; THE DIFFERENCES BETWEEN TWO GREEN TYPES OF BERYL (Be3Al2Si6O18) MINERAL WIDELY USED IN THE JEWELRY INDUSTRY (GREEN BERYL AND EMERALD) AND RAISING CONSUMER AWARENESS	26
Safarova Elnura Fazil Səfərova Elnurə	MAIN PESTS OF GARDEN AND FOREST PLANTS IN ABSHERON, THEIR COMPLEX ENTOMOPHAGES	29
Vanya ZHIVKOVA	A BRIEF INSIGHT INTO SOME CURRENT ADVANCES ON PAPAYA WASTE UTILIZATION	31
Maja PUCELJ	THE POSSIBLE IMPACT OF THE BAN ON FACE VEILING ON THE QUALITY OF LIFE OF VEILED MUSLIM WOMEN: SLOVENIAN PERSPECTIVE	32
Paşa PAŞAYEV Şükrü APAYDIN	ENERGY REGION CASPIAN SEA ON THE WAY TO BECOMING A EURASIAN ENERGY CENTER	33
Maja PUCELJ	HUMAN RIGHTS PERSPECTIVE ON THE POSSIBLE IMPLEMENTATION OF THE BAN ON FACE VEILING: SLOVENIAN PERSPECTIVE	35
Nasim Forghani S Mahmoud A Najafi	INHIBITORS OF Gq SIGNALING DOWNREGULATE ß-Catenin eXPRESSION AND FUNCTION IN HUMAN COLON CANCER CELLS	36
Farman Ullah Marjan Uddin	NUMERICAL SOLUTION OF VARIABLE ORDER FRACTIONAL DIFFERENTIAL EQUATION WITH VARIABLE COEFFICIENT	38
Tarsisius GAHADZIKWA	ANALYSING GLOBALISATION: SOLUTION OR PROBLEM?	39
Polina ANUFRIEVA	DIGITAL ECOSYSTEMS AS A MAIN TREND IN THE MODERN WORLD ECONOMY	40
Tamara DARSANIA Natalia GARUCHAVA	THE PRINCIPLES OF ORGANIZATION OF DIET THERAPY MANAGEMENT IN THE CLINICS AND HEALTH RESORTS IN GEORGIA	41
Mhamed HADJI Abdelkader ELHANAOUI Rachid SKOURI Said AGOUNAD	EMBEDDED SYSTEM OF ACOUSTIC SIGNAL PROCESSING ON FPGA	42

,

ADLİ GEMOLOJİ AÇISINDAN TÜKETİCİNİN KORUNMASI HAKKINDA BİR ÖRNEK; MÜCEVHER SEKTÖRÜNDE YAYGINCA KULLANILAN BERİL ($BE_3AL_2Si_6O_{18}$) MİNERALİNİN YEŞİL RENKLİ İKİ TÜRÜNÜN (YEŞİL BERİL VE ZÜMRÜT) ARASINDAKİ FARKLAR VE TÜKETİCİLERİN BİLİNÇLENDİRİLMESİ

AN EXAMPLE OF CONSUMER PROTECTION IN FORENSIC-GEMOLOGY; THE DIFFERENCES BETWEEN TWO GREEN TYPES OF BERYL (Be3Al2Si6O18) MINERAL WIDELY USED IN THE JEWELRY INDUSTRY (GREEN BERYL AND EMERALD) AND RAISING CONSUMER AWARENESS

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ÖZET

Çok eski zamanlardan beri insanoğlunun değer verdiği değerli taşlar elmas, safir, yakut, zümrüt, akuvamarin ve inci'dir. Özellikle ördekbaşı yeşilinden yeşilin hemen her tonunda oluşabilen ve esas minerali beril ($Be_3Al_2Si_6O_{18}$) olan zümrüt taşının bu çekici yeşil rengi yüzünden hemen her toplumda tüm insanlar tarafından talep görmüştür. Bununla beraber günümüzde, mücevher sektöründe yaygınca kullanılan beril mineralinin yeşil renkli iki türünün (yeşil beril ve zümrüt) olduğu birçok profesyonel satıcı ve neredeyse tüm tüketicilerin bilmediği veya farkında olmadığı bir durumdur. Bu iki türü birbirinden ayıran temel faktör beril minerali içerisine giren ve yeşil renge sebep olan periyodik cetveldeki "B" grubu bazı renk verici elementler (kromoforlar) dır. Berilyum-Alüminyum-silikat atomik bileşimine sahip beril minerali, kromoforlardan yoksun ise renksizdir ve ismi goşenit olarak ifade edilir. Kristalleşme sırasında bulunduğu jeolojik ortamda birinci olarak; Al^{+3} yerine Fe^{+3} ve V^{+3} elementleri beril içerisine yüksek oranlarda girerse, ikinci olarak; Al^{+3} yerine Cr^{+3} elementi düşük oranda girerse, kafes yapısında kristal alan dönüşümü ile berilin rengi yeşil olur. Bu

süstaşının adı hem bilimsel hem de uluslararası mücevher otoriteleri (Örğ. CIBJO, GIA, IGI vb) tarafından "yeşil beril" ismiyle adlandırıldığından tüketicilere de bu isimle sunulmalıdırlar. Buna karşılık, Al^{+3} yerine yüksek oranda Cr^{+3} ve düşük oranlarda Fe^{+3} ve V^{+3} elementleri, gene kristal alan dönüşümü ile beril içerisine yüksek oranlarda girerse berilin rengi yeşil olur. Ancak bu durumda süstaşının adı hem bilimsel hem de uluslararası mücevher otoriteleri tarafından "zümrüt" ismiyle adlandırıldığından, tüketicilere de bu isimle sunulmalıdırlar. Hemen hemen tüm özellikleri aynı olan bu iki türün en pratik ayırt edilme yöntemlerinden birisi, UV-lüminesansıdır. Yeşil beriller yüksek vanadyum içerimler nedeniyle camgöbeği renkli UV ışıması gösterirken, zümrütler yüksek krom içerimleri nedeniyle kırmızı UV ışıması gösterirler. Bu fark adli gemoloji açısından önemlidir. Çünkü mücevher ticaretinde tüketicilerin aldatılmadan güvenle zümrüt taşını veya zümrütlü mücevherleri alabilmeleri için bu farkın satıcılar tarafından tüketicilere anlatılması gerekmektedir. Eğer tüketiciye bu fark anlatılmadan, ender bulunduğu için çok daha değerli olan ve bu yüzden yüksek talep gören zümrüt taşı yerine, çok daha yaygın bulunan yeşil beril satılırsa, 6502 sayılı "Tüketicinin Korunması Hakkındaki Kanun" gereği ayıplı mal satılmış olur. Bu durumda tüketici lehine hukuksal hak doğar ve bu kanunun Madde 11'de bahsedilen tüketicinin seçimsel haklarını kullanması gerekebilir.

Anahtar Sözcükler: Zümrüt, Yeşil beril, Adli-gemoloji, 6502 sayılı Tüketici Kanunu.

ABSTRACT

The precious stones that have been valued by mankind since ancient times are diamond, sapphire, ruby, emerald, aquamarine, and pearl. Due to this attractive green color of the emerald stone, which can be formed in almost any shade of green from duck-head green, and whose main mineral is beryl ($Be_3Al_2Si_6O_{18}$), it has been demanded by all people in almost every society. However, today, it is a situation that many professional sellers and almost all consumers do not know or are aware of, that there are two green-colored types of beryl mineral (Emerald and Green Beryl), which are widely used in the jewelry industry. The main factor that distinguishes these two species from each other is the "B" group in the periodic table, which enters the beryl mineral and causes the green color, some coloring elements (chromophores). Beryl mineral with atomic composition of beryllium-aluminium-silicate is colorless if it lacks chromophores and its name is expressed as goshenite. Firstly, in the geological environment in which it was found during crystallization; If Fe^{+3} and V^{+3} elements enter beryl at high rates instead of Al^{+3}, secondly; If Cr^{+3} element enters at low ratio instead of Al^{+3}, the color of beryl becomes green with the crystal field transformation in the lattice structure. Since the name of this gemstone is named as "green beryl" by both scientific and international jewelry authorities (eg. CIBJO, GIA, IGI etc.), they should be presented to consumers with this name. On the other hand, if high proportions of Cr^{+3} and low ratios of Fe^{+3} and V^{+3} elements enter beryl lattice instead of Al^{+3}, again with crystal field transformation, the color of beryl becomes green. However, in this case, since the name of the gemstone is named as "emerald" by both scientific and international jewelry authorities, they should be presented to consumers with this name. The one of the most practical distinction of these two species, which has almost all the same characteristics, is with UV-luminescence. One of the most practical methods of distinguishing these two species, which have almost all the same characteristics, is UV-luminescence. Green beryls show cyan colored UV irradiation due to their high vanadium content, while emeralds show red UV irradiation due to their high chromium content. This difference is important in terms of forensic gemology. Because in the jewelry trade, this difference should be explained to the consumers by the sellers so that the consumers can safely buy the emerald stone or emerald jewelry without being deceived. If

green beryl, which is much more common, is sold instead of emerald, which is much more valuable because it is rare and therefore in high demand, without explaining this difference to the consumer, defective goods will be sold in accordance with the "Law on the Protection of the Consumer" no. 6502. In this case, a legal right arises in favor of the consumer, and it may be necessary to use the consumer's electoral rights mentioned in Article 11 of this law.

Keywords: Emerald, Green Beryl, Forensic-Gemology, Consumer Law No:6502.