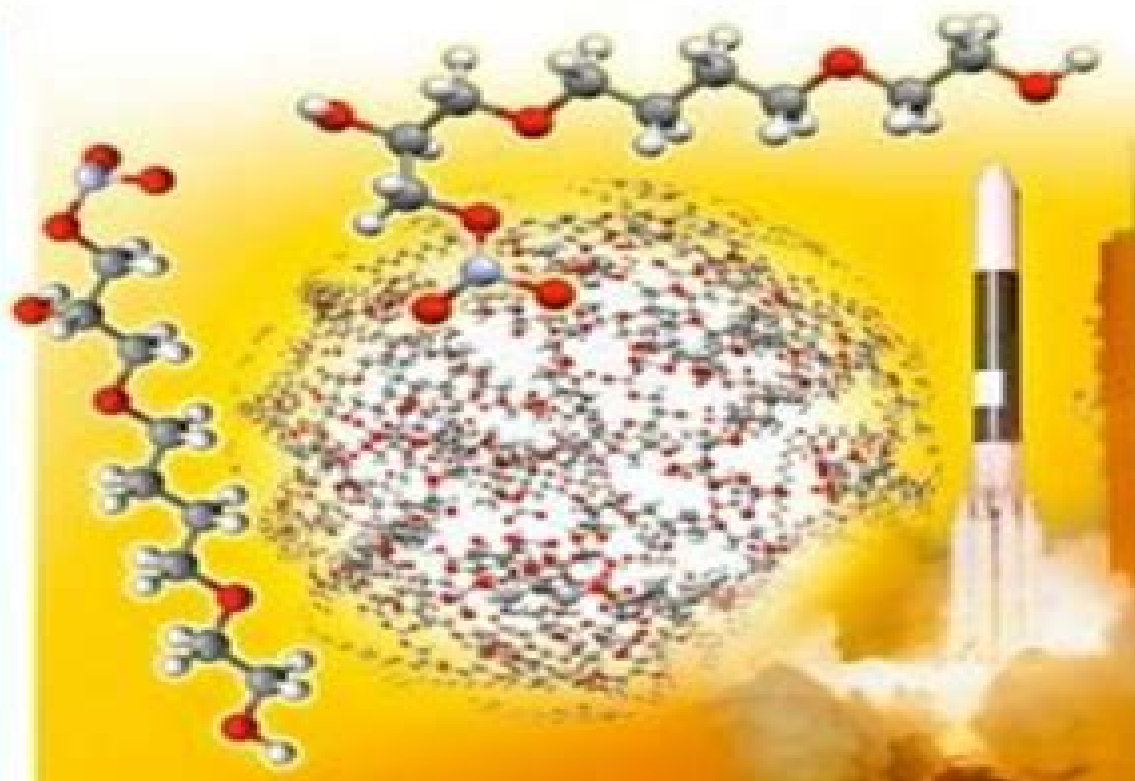


How Ghee Ang and
Sreekumar Pisharath

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Energetic Polymers

Binders and Plasticizers for Enhancing Performance



Energetic Polymers Binders And Plasticizers For Enhancing Performance

Lei Huang



Energetic Polymers Binders And Plasticizers For Enhancing Performance:

Energetic Polymers How Ghee Ang, Sreekumar Pisharath, 2012-03-26 This up to date overview provides the latest information on the performance sensitivity strength and processability aspects of propellants and explosive formulations with the nature of polymer binder plasticizer as the variable factor Apart from applications this monograph explores the principles behind energetic polymers while discussing the synthetic routes and energetic characteristics of individual family of energetic polymers Furthermore a number of case studies illustrate the role of energetic polymers on enhancing the performance of formulations as compared to their inert counterparts The emphasis is on safety throughout with practical guidance on how to safely handle and formulate energetic polymer based formulations With the advent of a new generation of energetic polymers this book is relevant to industry and defense organizations as well as for academic research

Energetic Materials Manoj K. Shukla, Veera M. Boddu, Jeffery A. Steevens, Reddy Damavarapu, Jerzy Leszczynski, 2017-10-09 This book offers a comprehensive account of energetic materials including their synthesis computational modeling applications associated degradation mechanisms environmental consequences and fate and transport This multi author contributed volume describes how armed forces around the world are moving their attention from legacy explosive compounds which are heat and shock sensitive thus posing greater challenges in terms of handling and storage to the insensitive munitions compounds formulations such as insensitive munitions explosive IMX and the Picatinny Arsenal Explosive PAX series of compounds The description of energetic materials focuses on explosives pyrotechnic compositions and propellants The contributors go on to explain how modern generation energetic compounds must be insensitive to shock and heat but at the same time yield more energy upon explosion Nanoinspired and or co crystallized energetic materials offer another route to generate next generation energetic materials and this authoritative book bridges a large gap in the literature by providing a comprehensive analysis of these compounds Additionally it includes a valuable overview of energetic materials a detailed discussion of recent advances on future energetic compounds nanotechnology in energetic materials environmental contamination and toxicity assessment of munitions lethality the application quantitative structure activity relationship QSAR in design of energetics and the fate and transport of munition compounds in the environment

Nanotechnology for Defence Applications Narendra Kumar, Ambesh Dixit, 2019-11-01 This book examines the application of nanoscience and nanotechnology in military defence strategies Both historical and current perspectives on military technologies are discussed The book provides comprehensive details on current trends in the application of nanotechnology to ground air and naval specializations Furthermore nanotechnology enabled high energy explosives and propellants chemical biological radiation and nuclear threats and their detection protection and camouflage and stealth for signature management of military targets in multispectral wavelength signals are analyzed The book also covers nanotechnology enabled armor and platforms which may serve as lightweight and high mechanical strength options in

contrast to conventional systems Finally the book also emphasizes future military applications of nanotechnology and its integration into smart materials Provides comprehensive details on trends in the application of nanotechnology to ground air and naval defence systems Examines the application of nanoscience and nanotechnology in military defence strategies Offers pathways and research avenues for development of nanotechnology and materials applications in military capacities

Advanced Polymer Nanocomposites Md Enamul Hoque,R. Kumar,Ahmed Sharif,2022-05-01 Advanced Polymer Nanocomposites Science Technology and Applications presents a detailed review of new and emerging research outcomes from fundamental concepts that are relevant to science technology and advanced applications Sections cover key drivers such as the rising demand for lightweight and high strength automotive parts the need for sustainable packaging materials and conservation of flavor in the food drinks and beverages industries and defense initiatives such as ballistic protection fire retardation and electromagnetic shielding With contributions from international authors working at the cutting edge of research this book will be an essential reference resource for materials scientists chemists manufacturers and polymer engineers Through recent advances in nanotechnology researchers can now manipulate atoms to create materials and products that are changing the way we live our lives These materials have enhanced properties such as tensile strength impact and scratch resistance electrical and thermal conductivity thermal stability and fire resistance Combines processing properties and advanced commercial applications Emphasizes synthesis and fabrication techniques Focuses on environmental and health aspects Covers future challenges opportunities recycling and sustainability Contains contributions from high profile cutting edge international researchers Boron-Based Fuel-Rich Propellant WeiQiang Pang,2019-04-09

Boron Based Fuel Rich Solid Rocket Propellant Technology is a professional book that systematically introduces the latest research progress for boron based fuel rich solid propellants It covers surface modifications coating and agglomerating techniques granulation and characterization of amorphous boron powders and its application to fuel rich solid rocket propellants Technologies for controlling the processing methods and combustion performance of fuel rich propellants are examined and the book concludes with a summary of the research progress in boron based fuel rich solid propellants and a look forward to the foreseeable development trends of military applications **Nano and Micro-Scale Energetic**

Materials Weiqiang Pang,Luigi T. DeLuca,2023-01-26 Provides an up to date account of innovative energetic materials and their potential applications in space propulsion and high explosives Most explosives and propellants currently use a small number of ingredients such as TNT and nitrocellulose In comparison to conventional materials nano and micro scale energetic materials exhibit superior burning characteristics and much higher energy densities and explosive yields Nano and Micro scale Energetic Materials Propellants and Explosives provides a timely overview of innovative nano scale energetic materials nEMs and microscale energetic materials EMs technology Covering nEMs and EMs ingredients as well as formulations this comprehensive volume examines the preparation characterization ignition combustion and performance of

energetic materials in various applications of propellants and explosives Twenty two chapters explore metal based pyrotechnic nanocomposites solid and hybrid rocket propulsion solid fuels for in space and power the sensitivity and mechanical properties of explosives new energetic materials and more Explores novel energetic materials and their potential for use in propellants and explosives Summarizes the most recent advances of leading research groups currently active in twelve countries Discusses how new environmentally friendly high combustion energetic materials can best be used in different applications Explains the fundamentals of energetic materials including similarities and differences between composite propellants and explosives Nano and Micro scale Energetic Materials Propellants and Explosives is an important resource for materials scientists explosives specialists pyrotechnicians environmental chemists polymer chemists physical chemists aerospace physicians and aerospace engineers working in both academia and industry Micro and Nanostructured Epoxy / Rubber Blends Sabu Thomas, Christophe Sinturel, Raju Thomas, 2014-11-03 Epoxy resins are polymers which are extensively used as coating materials due to their outstanding mechanical properties and good handling characteristics A disadvantage results from their high cross link density they are brittle and have very low resistance to crack growth and propagation This necessitates the toughening of the epoxy matrix without impairing its good thermomechanical properties The final properties of the polymer depend on their structure The book focuses on the microstructural aspects in the modification of epoxy resins with low molecular weight liquid rubbers one of the prime toughening agents commonly employed The book follows thoroughly the reactions of elastomer modified epoxy resins from their liquid stage to the network formation It gives an in depth view into the cure reaction phase separation and the simultaneous development of the morphology Chapters on ageing failure analysis and life cycle analysis round out the book *Propellants and Explosives* Namiosuke Kubota, 2015-04-22 Propellants and Explosives Explosives and propellants are termed energetic materials for containing considerable chemical energy which can be converted into rapid expansion In contrast to simple burning of a fuel explosives and propellants are self contained and do not need external supply of oxygen via air Since their energy content thus inherently creates the risk of accidental triggering of the explosive reaction proper synthesis formulation and handling during production and use are of utmost importance for safety and necessitate specialist knowledge on energetic materials their characteristics handling and applications Now in its third edition the classic on the thermochemical aspects of the combustion of propellants and explosives is completely revised and updated and includes green propellants as new topic The combustion processes of typical energetic crystalline and polymeric materials and various types of propellants and pyrolants are presented to provide an informative generalized approach for the understanding of the combustion mechanisms of those materials The first half of the book represents an introductory text on pyrodynamics describing fundamental aspects of the combustion of energetic materials The second half highlights applications of energetic materials as propellants explosives and pyrolants with focus on phenomena occurring in rocket motors In addition the appendix gives a brief overview of the

fundamentals of aerodynamics and heat transfer which is a prerequisite for the study of pyrodynamics A detailed reference for readers interested in rocketry or explosives technology **Explosives** Rudolf Meyer,Josef Köhler,Axel

Homburg,2016-05-09 The unrivaled definitive reference for almost 40 years this classic work on explosives is now in its seventh completely revised and updated edition Some 500 monographic entries arranged alphabetically consider the physicochemical properties production methods and safe applications of over 120 explosive chemicals In addition 70 fuels additives and oxidizing agents are discussed as well as the corresponding test methods Trade company and military short names are provided for many of the materials listed while further key features include a combined index and glossary with terms and abbreviations in English French and German as well as conversion tables and many literature references Finally this indispensable source also contains safety data and transport regulations Bioterrorism Daniela Georgiana

GOLEA,Catalin HIDEG,2022-09-07 These are just some of the questions to be addressed in this paper We do not pretend to give the final and complete answers as the field under study still has many grey areas and even some areas completely unexplored by scientific research We aim to at least open the discussion on the subject of bioterrorism without claiming to be the supreme authority in the field or the final voice We do not even pretend that our work is relevant in terms of security solutions in such a complex and fluid security environment where situations and states of affairs can change dramatically from year to year However our aim in this series of papers on bioterrorism is to clarify a number of notions concepts and theoretical or practical issues necessary for the general public to understand what bioterrorism is all about and what we should expect in the coming years At the time of writing the COVID 19 crisis is still in full swing despite some apparent improvements over the last few weeks This may only be the beginning of a series of widening and deepening crises that are hitting human society again and again confronting it with great existential questions The current COVID 19 crisis is and will continue to be followed by severe economic and social impacts that are almost impossible to predict Situations in which crises break out everywhere and in all sorts of ways and situations in which the states of the world are gathering into increasingly isolated and hostile groups are nothing other than the specific preconditions for the outbreak of world conflicts We have no intention whatsoever of promoting defeatism or of creating and spreading alarmist rumours for who knows what obscure purposes The situation is simply worrying at times reaching alarming levels that go beyond mere fear of the future The bioterrorist phenomenon is beginning to emerge more and more clearly as a concrete threat to the present and the near future From this point of view an effort will have to be made or at least begun to enlighten the general public on how this new threat could materialise Authors C t lin Hideg Daniela Georgiana Golea Naval Research Reviews ,1983 *High Energy Materials* Jai Prakash Agrawal,2015-11-20 Authored by an insider with over 40 years of high energy materials HEMs experience in academia industry and defense organizations this handbook and ready reference covers all important HEMs from the 1950s to the present with their respective properties and intended purposes Written at an attainable level for

professionals engineers and technicians alike the book provides a comprehensive view of the current status and suggests further directions for research and development An introductory chapter on the chemical and thermodynamic basics allows the reader to become acquainted with the fundamental features of explosives before moving on to the important safety aspects in processing handling transportation and storage of high energy materials With its collation of results and formulation strategies hitherto scattered in the literature this should be on the shelf of every HEM researcher and developer

Nitrogen-Rich Energetic Materials Michael Gozin, Leonid L. Fershtat, 2022-12-22 Nitrogen Rich Energetic Materials Provides in depth and comprehensive knowledge on both the chemistry and practical applications of nitrogen rich energetic materials Energetic materials a class of material with high amounts of stored chemical energy include explosives pyrotechnics and propellants Initially used for military applications nitrogen rich energetic materials have become important in the civil engineering and aerospace sectors they are increasingly used in commercial mining and construction as well as in rocket propulsion Making these nitrogen rich energetic materials safer more powerful and more cost effective requires a thorough understanding of their chemistry physics synthesis properties and applications Nitrogen Rich Energetic Materials presents a detailed summary of the development of nitrogen rich energetic materials over the past decade and provides up to date knowledge on their applications in various areas of advanced engineering Edited by a panel of international experts in the field this book examines the chemistry of pentazoles fused ring and laser ignitable nitrogen rich compounds polynitrogen and tetrazole based energetic compounds and more The text also introduces applications of nitrogen rich energetic materials in energetic polymers and metal organic frameworks as pyrotechnics materials for light and smoke and in oxadiazoles from precursor molecules This authoritative volume Presents in depth chapters written by leading experts in each sub field covered Offers a systematic introduction to new and emerging applications of nitrogen rich energetic materials such as in computational chemistry Discusses recent advances in nitrate ester chemistry with focus on propellant applications Discusses green and eco friendly approaches to nitrogen rich compounds Nitrogen Rich Energetic Materials is an important resource for researchers academics and industry professionals across fields including explosives specialists pyrotechnicians materials scientists polymer chemists laser specialists physical chemists environmental chemists chemical engineers and safety officers

Rocket Propulsion Elements George P. Sutton, Oscar Biblarz, 2011-09-09 The definitive text on rocket propulsion now revised to reflect advancements in the field For sixty years Sutton s Rocket Propulsion Elements has been regarded as the single most authoritative sourcebook on rocket propulsion technology As with the previous edition coauthored with Oscar Biblarz the Eighth Edition of Rocket Propulsion Elements offers a thorough introduction to basic principles of rocket propulsion for guided missiles space flight or satellite flight It describes the physical mechanisms and designs for various types of rockets and provides an understanding of how rocket propulsion is applied to flying vehicles Updated and strengthened throughout the Eighth Edition explores The fundamentals of rocket propulsion its essential

technologies and its key design rationale The various types of rocket propulsion systems physical phenomena and essential relationships The latest advances in the field such as changes in materials systems design propellants applications and manufacturing technologies with a separate new chapter devoted to turbopumps Liquid propellant rocket engines and solid propellant rocket motors the two most prevalent of the rocket propulsion systems with in depth consideration of advances in hybrid rockets and electrical space propulsion Comprehensive and coherently organized this seminal text guides readers evenhandedly through the complex factors that shape rocket propulsion with both theory and practical design considerations Professional engineers in the aerospace and defense industries as well as students in mechanical and aerospace engineering will find this updated classic indispensable for its scope of coverage and utility

BIOTERRORISMO DANIELA

GEORGIANA GOLEA,2023-06-05 El mundo en el que vivimos se ve cada vez m s sacudido por crisis que se originan en la biosfera terrestre o que afectan a la biosfera de un modo u otro Y en ltima instancia a los HUMANOS S LA ABEJA HUMANA que a menudo olvida o intenta olvidar que es parte integrante e indisoluble de la biosfera de este planeta Hacia finales del siglo 19th estall la crisis alimentaria que posteriormente provoc graves problemas sociales y en cierto modo el estallido de las dos guerras mundiales La justificaci n del espacio vital especialmente en la l gica de la Segunda Guerra Mundial estaba relacionada principalmente con la supervivencia biol gica de la especie humana Fue en el siglo 20th cuando aparecieron los primeros indicios de la crisis medioambiental ligada al cambio clim tico a principios de 1960s cuando se hizo cada vez m s evidente que se estaban produciendo cambios en el clima mundial Posteriormente la crisis de la energ a f sil de origen puramente natural pas a primer plano con la decisi n de la OPEP Organizaci n de Pa ses Exportadores de Petr leo de reducir o cortar el suministro de estos recursos energ ticos naturales a determinados pa ses industrializados M s tarde algunas regiones del planeta en particular el continente africano se vieron gravemente afectadas por la crisis del agua y de los alimentos y ahora esas mismas regiones tambi n se ven afectadas por numerosas crisis m dicas provocadas por la acci n de biopat genos infecciosos muy agresivos A finales de los a os 70s surgi una nueva creciente y aterradora amenaza El VIH SIDA un virus que extra amente y hasta la fecha no se ha explicado ni demostrado cient ficamente de forma edificante y de forma repentina surgi de una regi n salvaje de frica Adem s otras amenazas igualmente terror ficas como el virus EBOLA surgieron aproximadamente de la misma regi n Por ltimo pero no por ello menos importante los conflictos mundiales han aumentado y con ellos ha surgido un verdadero boom demogr fico que ha provocado un aumento preocupante de la necesidad de alimentos refugio y espacio vital dentro del ecosistema Como consecuencia la calidad del medio ambiente y del suministro p blico de alimentos se ha deteriorado y la especie humana ha experimentado un aumento de las patolog as causadas 6 por la mala calidad de los alimentos con un incremento de la patolog a del c ncer en particular La humanidad de finales del primer cuarto del siglo 21st se nos presenta pues como una mezcla heterog nea de razas etnias culturas y civilizaciones en constante confrontaci n a veces con terrible violencia Al mismo tiempo el medio ambiente se encuentra en un proceso continuo y

acelerado de degradación y los ecosistemas sufren cada vez más. El aumento de los conflictos mundiales también está provocando el incremento de las reservas de armas convencionales y no convencionales aunque en este último caso el crecimiento se produce de forma mucho más discreta tratando de eludir los límites impuestos por el derecho internacional público. El panorama tan extraño y gris parece. En un contexto tan problemático y preocupante el presente trabajo intenta abordar algunos temas generalmente evitados por la literatura de los últimos años analizando incluso aquellos aspectos sensibles que no son aceptados por la política oficial de la mayoría de los países. Desgraciadamente aunque la práctica de censurar obras ya no está oficialmente en vigor dicho control se sigue ejerciendo invocando la mayoría de las veces el aspecto de lo políticamente correcto. Cuando una obra no se considera políticamente correcta por diversas razones relacionadas con su contenido o con la forma de abordarlo y tratarlo acaba siendo censurada rechazada en parte o en su totalidad de la publicación y en consecuencia no ser respaldada por quienes se consideran oficialmente las principales autoridades en la materia. No pretendemos provocar o amplificar conflictos ni crear un estado de tensión en relación con los temas tratados sino que deseamos aclarar ciertos conceptos y ciertas cuestiones relacionadas con la seguridad actual y del futuro próximo. Para ello hemos optado por que el planteamiento de los problemas esté libre de prohibiciones o limitaciones de carácter político propagandístico y de cualquier otra índole salvo los criterios específicos de los trabajos científicos. La existencia de un aparato científico la fundamentación y demostración de afirmaciones de cierta naturaleza la especificación del carácter hipotético de aspectos para los que no existen pruebas ciertas la especificación como opiniones propias de aquellas afirmaciones que no resultan de determinaciones objetivas y no constituyen afirmaciones de otros etc. Al adoptar este enfoque hemos tratado de situarnos en una posición ecuánime intentando ver la situación de la manera más neutral posible. Nuestra motivación es tratar de responder a algunas preguntas fundamentales sobre la seguridad mundial en este siglo que está resultando tan complicado. Es el bioterrorismo una amenaza real. Proliferar el fenómeno terrorista y si es así de qué forma? ¿Cuáles podrán ser los nichos de cualquier naturaleza a través de los cuales podrá formarse y evolucionar el bioterrorismo en un futuro próximo y medio? ¿Qué biopatógenos podrán ser el objetivo de una posible organización terrorista y cómo podrán utilizarse? ¿Cuál es la situación del sector médico farmacéutico desde el punto de vista económico? La gestión económica del sector médico farmacéutico es en última instancia sinónimo de su gestión de la seguridad. ¿Cuál debería ser el terreno y el estatus correctos del ámbito médico farmacéutico dentro del sistema de seguridad nacional? Puede el estado de la economía ser una ventaja para el fenómeno terrorista? ¿Cuál es la situación económica del fenómeno bioterrorista? Estas son sólo algunas de las cuestiones que se abordan en este documento. No pretendemos dar las respuestas definitivas y completas ya que el campo de estudio tiene todavía muchas zonas grises e incluso algunas áreas completamente inexploradas por la investigación científica. Pretendemos al menos abrir el debate sobre el tema del bioterrorismo sin pretender ser la autoridad suprema en la materia ni la voz final. Ni siquiera pretendemos que nuestro trabajo sea relevante en términos de soluciones de seguridad en un entorno de seguridad tan

complejo y fluido en el que las situaciones y estados de cosas pueden cambiar dr sticamente de un a o a otro Sin embargo nuestro objetivo en esta serie de documentos sobre el bioterrorismo es aclarar una serie de nociones conceptos y cuestiones te ricas o pr cticas necesarias para que el p blico en general comprenda en qu consiste el bioterrorismo y qu debemos esperar en los pr ximos a os En el momento de escribir estas l neas la crisis del COVID 19 sigue en pleno apogeo a pesar de algunas mejoras aparentes en las ltimas semanas Es posible que ste sea s lo el comienzo de una serie de crisis cada vez m s amplias y profundas que golpean a la sociedad humana enfrent ndola una y otra vez a grandes interrogantes existenciales A la actual crisis COVID 19 le siguen y le seguir n graves impactos econ micos y sociales casi imposibles de predecir Las situaciones en las que las crisis estallan por todas partes y de todas las maneras y las situaciones en las que los Estados del mundo se agrupan en grupos cada vez m s aislados y hostiles no son otra cosa que las condiciones previas espec ficas para el estallido de 8 conflictos mundiales No tenemos ninguna intenci n de promover el derrotismo ni de crear y difundir rumores alarmistas con qui n sabe qu oscuros fines La situaci n es simplemente preocupante alcanzando en ocasiones niveles alarmantes que van m s all del mero temor al futuro El fen meno bioterrorista empieza a emerger cada vez m s claramente como una amenaza concreta para el presente y el futuro pr ximo Desde este punto de vista habr que hacer un esfuerzo o al menos comenzar para ilustrar al p blico en general sobre c mo podr a materializarse esta nueva amenaza Daniela Georgiana GOLEA Miguel A Su rez Innovative Energetic Materials: Properties, Combustion Performance and Application WeiQiang Pang,Luigi T. DeLuca,Alexander A. Gromov,Adam S. Cumming,2020-07-04 This book focuses on the combustion performance and application of innovative energetic materials for solid and hybrid space rocket propulsion It provides a comprehensive overview of advanced technologies in the field of innovative energetic materials and combustion performance introduces methods of modeling and diagnosing the aggregation agglomeration of active energetic metal materials in solid propellants and investigates the potential applications of innovative energetic materials in solid and hybrid propulsion In addition it also provides step by step solutions for sample problems to help readers gain a good understanding of combustion performance and potential applications of innovative energetic materials in space propulsion This book serves as an excellent resource for researchers and engineers in the field of propellants explosives and pyrotechnics *Bioterorismul* Daniela Georgiana GOLEA,Catalin HIDEG,2021-12-30 Din mbinarea activit ii a doi economi ti ale c ror preocup ri au tangen e cu domeniul securit ii na ionale a rezultat o lucrare cel pu in interesant Cei doi autori pun nd cap la cap experien a lor au decis s ntocmeasc un set de lucr ri tiin ifice dedicate bioterorismului c ut nd s surprind situa ia actual a acestui fenomen dar i s intuiasc posibilele tendin e de evolu ie n viitorul apropiat i mediu Lucrarea de fa coroboreaz experien a unui ntreprinz tor n domeniul cercet rii i produc iei din domeniul bio farmaceutic cu activitatea de cercetare a unei economiste ce a vizat cu prec dere managementul securit ii na ionale A rezultat o lucrare tiin ific interesant i bazat pe o abordare cel pu in inedit din perspectiv economic incluz nd impactul fenomenului corup iei asupra pie ei medico farmaceutice globale Referent tiin ific

Medic Cercetor Christian COZMA Centre de Consultation Pluridisciplinaire Hopital de Chateauroux Bioterrorismul flagelul mileniului III are consecin e semnificative la adresa securit ii na ionale i globale A a cum clar s a demonstrat n contextul COVID 19 o criz n domeniul s n t ii publice fie ea natural sau provocat de interven ia factorului uman poate avea un impact incalculabil variabil ca durat i extindere spa io temporal pe mai multe paliere respectiv cel societal financiar economic politic inclusiv de securitate na ional Lucrarea de fa coroboreaz experien a unui antreprenor n domeniul cercet rii i produc iei din domeniul bio farmaceutic cu activitatea de cercetare a unei economiste doctorand ce a vizat cu prec dere managementul securit ii na ionale Rezultatele cercetarii s au consacrat ntr o lucrare tiin ific captivant pentru cititori bazat pe o abordare cel pu in inedit din perspectiv economic financiar incluz nd impactul fenomenului corup iei asupra pie ei medico farmaceutice globale Referent tiin ific Dr Ec Andreea Florina RADU **BIOTERRORISMO** PhD Student Daniela Georgiana

GOLEA,2024-08-09 Il bioterrorismo il agello del terzo millennio ha conseguenze signi cative per la sicurezza nazionale e globale Come chiaramente dimostrato nel contesto del COVID 19 una crisi di salute pubblica sia essa naturale o causata dall uomo pu avere un impatto incalcolabile variabile in termini di durata e di estensione spaziale e temporale su diversi livelli ovvero sociale nanziario economico politico compresa la sicurezza nazionale Questo articolo combina l esperienza di un imprenditore nel campo della ricerca e della produzione biofarmaceutica con il lavoro di ricerca di un economista studente di dottorato incentrato sulla gestione della sicurezza nazionale I risultati della ricerca sono stati racchiusi in un opera scienti ca appassionante per i lettori basata su un approccio a dir poco innovativo da una prospettiva economico nanziaria compreso l impatto della corruzione sul mercato medico farmaceutico globale Revisore scienti co Dottoressa Ec Andreea Florina RADU Consigliere Difesa nazionale ordine pubblico e sistema di sicurezza nazionale **БИОТЕРОРИЗМ** ,2024-08-11 Christian COZMA Chateauroux COVID 19 Dr Ec Andreea Florina RADU **BIOTERRORISMUS** DANIELA GEORGIANA

GOLEA,2024-08-13 Die Welt in der wir leben wird zunehmend von Krisen ersch ttert die ihren Ursprung in der terrestrischen Biosph re haben oder die Biosph re auf die eine oder andere Weise beeinflussen Und letztlich auch den MENSCHEN Ja der MENSCHEN der oft vergisst oder zu vergessen versucht dass er ein integraler und untrennbarer Teil der Biosph re dieses Planeten ist Gegen Ende des 19th Jahrhunderts brach die Ern hrungskrise aus die in der Folge zu schwerwiegenden sozialen Problemen und in gewisser Weise zum Ausbruch der beiden Weltkriege f hrte Die Rechtfertigung des Lebensraums insbesondere in der Logik des Zweiten Weltkriegs bezog sich haupts chlich auf das biologische berleben der menschlichen Gattung thDie ersten Anzeichen einer Umweltkrise im Zusammenhang mit dem Klimawandel traten im 20 Jahrhundert auf Anfang 1960s als immer deutlicher wurde dass sich das Weltklima ver ndert Die Krise der fossilen Energietr ger rein nat rlichen Ursprungs trat dann mit der Entscheidung der OPEC Organisation der erd lexportierenden L nder in den Vordergrund die Lieferung dieser nat rlichen Energietr ger an bestimmte Industriel nder zu reduzieren oder ganz einzustellen Sp ter wurden bestimmte Regionen der Erde insbesondere der afrikanische Kontinent von der Wasser und

Nahrungsmittelkrise schwer getroffen und jetzt sind dieselben Regionen auch von zahlreichen medizinischen Krisen betroffen die durch die Wirkung hochaggressiver infektiöser Biopatogene verursacht werden Ende der 1970er Jahre tauchte eine neue wachsende und erschreckende Bedrohung auf HIV AIDS ein Virus das auf bizarre Weise und bis heute nicht wissenschaftlich erklärt oder bewiesen plötzlich in einer wilden Region Afrikas auftauchte Darüber hinaus kamen andere ebenso furchterregende Bedrohungen wie das EBOLA Virus aus etwa derselben Region Nicht zuletzt haben die weltweiten Konflikte zugenommen und damit ein regelrechter Bevölkerungsboom eingesetzt der zu einem besorgniserregenden Anstieg des Bedarfs an Nahrung Unterkunft und Lebensraum im Kosystem geführt hat Infolgedessen hat sich die Qualität der Umwelt und der öffentlichen Nahrungsmittelversorgung verschlechtert und bei der menschlichen Spezies ist es zu einem Anstieg der durch schlechte Nahrungsmittelqualität verursachten Krankheiten gekommen insbesondere zu einer Zunahme von Krebserkrankungen Die Menschheit am Ende des ersten Viertels des 21. Jahrhunderts erscheint uns daher als eine heterogene Mischung von Rassen Ethnien Kulturen und Zivilisationen die in ständiger Konfrontation stehen manchmal mit schrecklicher Gewalt Gleichzeitig ist die Umwelt in einem kontinuierlichen und sich beschleunigenden Prozess der Degradation begriffen und die Kosysteme leiden immer mehr Die zunehmenden globalen Konflikte führen auch zu wachsenden Beständen an konventionellen und nicht konventionellen Waffen auch wenn im letzteren Fall die Zunahme in sehr viel diskreteren Formen erfolgt und versucht wird die vom Völkerrecht auferlegten Grenzen zu umgehen Was für ein seltsames und graues Bild In einem solch beunruhigenden und besorgniserregenden Kontext versucht die vorliegende Arbeit einige Themen anzusprechen die in der Literatur der letzten Jahre im Allgemeinen vermieden wurden und dabei auch jene sensiblen Aspekte zu analysieren die von der offiziellen Politik der meisten Länder nicht akzeptiert werden Obwohl die Praxis der Zensur von Werken offiziell nicht mehr in Kraft ist wird eine solche Kontrolle leider immer noch ausgeübt wobei man sich meist auf den Aspekt der politischen Korrektheit beruft Wenn ein Werk aus verschiedenen Gründen die mit seinem Inhalt oder der Art und Weise wie es behandelt wird zusammenhängen nicht als politisch korrekt angesehen wird wird es schließlich zensiert ganz oder teilweise von der Veröffentlichung ausgeschlossen und folglich auch nicht von denjenigen gebilligt die offiziell als die führenden Autoritäten auf diesem Gebiet gelten Wir haben nicht die Absicht Konflikte zu provozieren oder zu verstärken oder einen Spannungszustand in Bezug auf die behandelten Themen zu schaffen sondern wir möchten bestimmte Konzepte und bestimmte Fragen im Zusammenhang mit der aktuellen und zukünftigen Sicherheit klären Zu diesem Zweck haben wir uns dafür entschieden dass die Herangehensweise an die Probleme frei von jeglichen Verboten oder Zwängen politischer propagandistischer oder sonstiger Art sein soll mit Ausnahme der spezifischen Kriterien wissenschaftlicher Arbeiten das Vorhandensein eines wissenschaftlichen Apparats die Untermauerung und Demonstration von Aussagen eines bestimmten Charakters die Spezifizierung des hypothetischen Charakters von Aspekten für die es keine sicheren Beweise gibt die Spezifizierung derjenigen Behauptungen die nicht auf objektiven Feststellungen beruhen und keine Aussagen anderer

darstellen als eigene Meinung usw Mit diesem Ansatz haben wir versucht uns in eine unparteiische Position zu bringen und die Situation so neutral wie möglich zu betrachten 7 Unsere Motivation ist der Versuch einige grundlegende Fragen zur globalen Sicherheit in diesem Jahrhundert zu beantworten das sich als so kompliziert erweist Ist Bioterrorismus eine echte Bedrohung Wird sich das Ph nomen des Terrorismus ausbreiten und wenn ja in welcher Form In welchen Nischen welcher Art auch immer könnte sich der Bioterrorismus in naher und mittlerer Zukunft bilden und weiterentwickeln Welche Biopathogene könnten von einer potenziellen terroristischen Organisation ins Visier genommen werden und wie könnten sie eingesetzt werden Wie ist die Situation des medizinisch pharmazeutischen Sektors aus wirtschaftlicher Sicht Ist das wirtschaftliche Management des medizinisch pharmazeutischen Sektors letztlich gleichbedeutend mit seinem Sicherheitsmanagement Welchen Platz und welchen Status sollte der medizinisch pharmazeutische Bereich innerhalb des nationalen Sicherheitssystems haben Kann der Zustand der Wirtschaft ein Vorteil für das terroristische Ph nomen sein Wie ist die wirtschaftliche Situation im Zusammenhang mit dem Bioterrorismus Dies sind nur einige der Fragen die in diesem Papier behandelt werden sollen Wir erheben nicht den Anspruch endg ltige und vollst ndige Antworten zu geben da es auf dem untersuchten Gebiet noch viele Grauzonen und sogar einige von der wissenschaftlichen Forschung völlig unerforschte Bereiche gibt Wir wollen zumindest die Diskussion über das Thema Bioterrorismus eröffnen ohne den Anspruch zu erheben die oberste Autorität auf diesem Gebiet oder die letzte Stimme zu sein Wir geben nicht einmal vor dass unsere Arbeit für Sicherheitslungen in einem so komplexen und fluiden Sicherheitsumfeld relevant ist in dem sich Situationen und Zustände von Jahr zu Jahr dramatisch ändern können Mit dieser Reihe von Papieren über Bioterrorismus wollen wir jedoch eine Reihe von Begriffen Konzepten und theoretischen oder praktischen Fragen klären die für die breite Öffentlichkeit notwendig sind um zu verstehen worum es beim Bioterrorismus geht und was wir in den kommenden Jahren erwarten sollten Zum Zeitpunkt der Erstellung dieses Berichts ist die COVID 19 Krise trotz einiger offensichtlicher Verbesserungen in den letzten Wochen immer noch in vollem Gange Möglicherweise ist dies nur der Anfang einer Reihe von sich ausweitenden und vertiefenden Krisen die die menschliche Gesellschaft treffen und sie immer wieder mit großen existenziellen Fragen konfrontieren Die derzeitige COVID 19 Krise hat und wird auch in Zukunft schwerwiegende wirtschaftliche und soziale Auswirkungen haben die kaum vorhersehbar sind Situationen in denen überall und auf alle möglichen Arten Krisen ausbrechen und Situationen in denen sich die Staaten der Welt zu immer isolierteren und feindlicheren Gruppen zusammenschließen sind nichts anderes als die spezifischen Voraussetzungen für den Ausbruch von Weltkonflikten Wir haben keineswegs die Absicht Def tismus zu fördern oder alarmistische Gerüchte für wer weiß was für obskure Zwecke zu verbreiten Die Situation ist einfach besorgniserregend und erreicht zuweilen ein Ausmaß das über die blo ße Angst vor der Zukunft hinausgeht Das Ph nomen des Bioterrorismus zeichnet sich immer deutlicher als konkrete Bedrohung für die Gegenwart und die nahe Zukunft ab Unter diesem Gesichtspunkt müssen Anstrengungen unternommen oder zumindest begonnen werden um die breite Öffentlichkeit darüber aufzuklären wie sich

diese neue Bedrohung verwirklichen könnte

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