

## LUCRARI STIINTIFICE 2021

Nr. crt.	Titlu	Revista oficială Publicația	Autorii
1.	Ignition and propagation properties of coal dust - air - methane hybrid mixtures	ACADEMIA ROMÂNĂ Revue Roumaine de Chimie <a href="http://web.icf.ro/rrch/">http://web.icf.ro/rrch/</a> Rev. Roum. Chim., 2021, 66(1), 25-32 DOI: 10.33224/rrch.2021.66.1.02	Maria PRODAN, Emilian GHICIOI, Adrian JURCA, Dumitru OANCEA
2.	Experimental and Numerical Study of Ignition and Flame Propagation for Methane-Air Mixtures in Small Vessels	Processes 2021, 9, 998. <a href="https://doi.org/10.3390/pr9060998">https://doi.org/10.3390/pr9060998</a> <a href="https://www.mdpi.com/journal/processes">https://www.mdpi.com/journal/processes</a>	Maria Prodan , Emilian Ghicioi , Robert Laszlo , Irina Nalboc , Sonia Suvar, Aurelian Nicola
3.	Phosphate Coatings: EIS and SEM A pplied to Evaluate the Corrosion Behavior of Steel in Fire Extinguishing Solution	Applied Sciences 2021, 11, 7802. <a href="https://doi.org/10.3390/app1177802">https://doi.org/10.3390/app1177802</a>	Diana-Petronela Burduhos-Nergis , <b>Gabriel Dragos Vasilescu</b> , Dumitru-Doru Burduhos-Nergis, Ramona Cimpoesu, Costica Bejinariu
4.	Evaluation of the explosion risk specific to the preparation and storage activity of the simple explosive mixture type ANFO	MATEC Web of Conferences Volume 343 (2021) 10th International Conference on Manufacturing Science and Education - MSE 2021 Sibiu, Romania, June 2-4, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134310001">https://doi.org/10.1051/matecconf/202134310001</a>	Gabriel Dragos Vasilescu, Robert Laszlo, Attila Kovacs, Edward Gheorghiosu, Daniela Carmen Rus, Ilie Ciprian Jitea, Cristian Rădeanu, Ștefan Ilici, Bogdan Garaliu-Bușoi Claudia Miron

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5.	Exposure of workers to occupational noxae	MATEC Web of Conferences Volume 343 (2021) 10th International Conference on Manufacturing Science and Education - MSE 2021 Sibiu, Romania, June 2-4, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134310008">https://doi.org/10.1051/matecconf/202134310008</a>	Sorin Simion, Călămar Angelica Nicoleta, Alexandru Florin Simion, Lorand Toth
6.	Virtual ignition of a methane leak by electric spark	MATEC Web of Conferences Volume 343 (2021) 10th International Conference on Manufacturing Science and Education - MSE 2021 Sibiu, Romania, June 2-4, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134310009">https://doi.org/10.1051/matecconf/202134310009</a>	Nicolae Ioan Vlasin, Emilian Ghicioi, Vlad Mihai Pasculescu, Marius Simion Morar Laurentiu Munteanu
7.	The risk of static electricity at handling diesel fuel	MATEC Web of Conferences Volume 343 (2021) 10th International Conference on Manufacturing Science and Education - MSE 2021 Sibiu, Romania, June 2-4, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134310013">https://doi.org/10.1051/matecconf/202134310013</a>	Mihaela Paraiian, Emilian Ghicioi, Niculina Vatavu, Dan Gabor and Sorin Iuliu Mangu

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8.	Study of the possibilities to achieve an energy mix in areas affected by restructuring of lignite exploitation	MATEC Web of Conferences Volume 343 (2021) 10th International Conference on Manufacturing Science and Education - MSE 2021 Sibiu, Romania, June 2-4, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134309002">https://doi.org/10.1051/matecconf/202134309002</a>	<b>Danut Grecea</b> , Marin Silviu Nan, Cristian Aron, Cosmin Vitan and Bogdan Tomus
9.	'Workers' occupational exposure to noise of in the steel industry'	ACOUSTICS AND VIBRATION OF MECHANICAL STRUCTURES“ AVMS 2021	Sorin Simion
10.	Safety assessment of industrial locations under the effects generated by controlled explosions	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134201001">https://doi.org/10.1051/matecconf/202134201001</a>	Gabriel-Dragos Vasilescu, Florea Dinu, Attila Kovacs, Robert Laszlo, Iuliana-Claudia Miron

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11.	Evaluation of the safety parameters for a permitted explosive type emulsion	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134201002">https://doi.org/10.1051/matecconf/202134201002</a>	Ilie-Ciprian Jitea, Daniela Carmen Rus, Cristian Rădeanu Dragoș Gabriel Vasilescu
12.	The importance of seismic protection of strategic objectives, in the area of influence of useful rock quarries, in which blasting works are carried out	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134202002">https://doi.org/10.1051/matecconf/202134202002</a>	Bogdan Garaliu-Bușoi, Attila Kovacs, Edward Gheorghiosu, Cristian Rădeanu, Olga Miclea

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13.	Research in the field of evaluation of anfo explosive preparation installations - tests and results.	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134201003">https://doi.org/10.1051/matecconf/202134201003</a>	Stefan Ilici, Edward Gheorghiosu, Daniela Rus, Ciprian Jitea
14.	Experimentation of a new type of permissible explosive under the specific conditions of the Jiu Valley mines	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134202003">https://doi.org/10.1051/matecconf/202134202003</a>	Robert Laszlo, Cristian Rădeanu, Bogadan Garaliu-Bușoi, Ștefan Ilici

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15.	Numerical Modelling of Hydrogen Release and Dispersion	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134201004">https://doi.org/10.1051/matecconf/202134201004</a>	Vlad Mihai Pasculescu, Marius Cornel Suvar, Ligia Ioana Tuhut, Laurentiu Munteanu
16.	Assessment of the level of implementation of metrological traceability requirements specific to measurement equipment in the laboratory for explosive materials and pyrotechnic articles	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134202007">https://doi.org/10.1051/matecconf/202134202007</a>	Cristian Raul Cioara, Marius Simion Morar, Andrada Denisa Babut, Ligia Ioana Tuhut

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17.	Workplace risk management in the context of the Covid-19 pandemic	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134201012">https://doi.org/10.1051/matecconf/202134201012</a>	Andrada Denisa Babut, Marius Simion Morar, Cristian Raul Cioara, Cristian Tomescu
18.	Aspects regarding numerical models for safe evacuation of people, in the current pandemic context	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134201013">https://doi.org/10.1051/matecconf/202134201013</a>	Marius Cornel Suvar, Vlad Mihai Pasculescu, Alin Irimia, Dragos Pasculescu

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19.	Computational simulation of heat conduction on different surfaces	<p>MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134201014">https://doi.org/10.1051/matecconf/202134201014</a></p>	<p>Gheorghe Daniel Florea, Nicolae-loan Vlasin, Adrian Bogdan Șimon-Marinică, Florin Manea, Zoltan Vass</p>
20.	Finite element method to solve engineering problems using Ansys Fluent	<p>MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134201015">https://doi.org/10.1051/matecconf/202134201015</a></p>	<p>Adrian Bogdan Șimon-Marinică, Nicolae-loan Vlasin, Gheorghe-Daniel Florea, Florin Manea</p>

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21.	Research on designing and making of a mobile training facility for intervention and rescue personnel in toxic / flammable / explosive environments	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134201005">https://doi.org/10.1051/matecconf/202134201005</a>	George Artur Gaman, Daniel Pupazan, Cristian Nicolescu, Cosmin Ilie, Izabella Kovacs
22.	Comparative measurements between the reference method and the optical method for determination of PM10 dusts in ambient air	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134203002">https://doi.org/10.1051/matecconf/202134203002</a>	Marius Emilian Kovacs, Angelica Nicoleta Călămar, Lorand Toth, Sorin Simion, Alexandru Simion

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23.	First aid elements used in potentially toxic / explosive environments in the context of the COVID 19 pandemic	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134201006">https://doi.org/10.1051/matecconf/202134201006</a>	Lorand Toth, George Artur Găman, Daniel Pupăzan, Cristian Nicolescu, Cosmin Ilie
24.	Assessment of psychosocial risks associated to intervention and rescue activity in toxic / flammable / explosive environments	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134201007">https://doi.org/10.1051/matecconf/202134201007</a>	Izabella Kovacs, Andrei Lucian Gireadă, Alin Irimia, Laurențiu Munteanu

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25.	Measurement of the occupational risk level specific to workplaces	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134201008">https://doi.org/10.1051/matecconf/202134201008</a>	Angela Nicoleta Călămar, Sorin Simion, Marius Kovacs, Alexandru Florin Simion
26.	Heavy metal pollution from dust deposits in urban and industrial areas in the Jiul Valley	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134203003">https://doi.org/10.1051/matecconf/202134203003</a>	Andrei Szollosi-Mota, Maria Prodan, Vasilica Irina Nalboc, Niculina Sonia Suvar, Nicolae Ianc

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27.	Determination of the chemical composition of the residual powder in order to identify the source of release	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/mateconf/202134203004">https://doi.org/10.1051/mateconf/202134203004</a>	Sonia Suvar, Maria Prodan, Andrei Szollosi-Mota, Irina Nalboc, Aurelian Nicola
28.	Notions regarding the desing of suction systems for industrial ventilation	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/mateconf/202134202006">https://doi.org/10.1051/mateconf/202134202006</a>	Ion Gherghe, Doru Cioclea, Florin Radoi, Adrian Matei, Razvan Dragoescu

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29.	Aspects regarding the specific tests applicable to electric motors with type of protection increased safety „e”	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134204001">https://doi.org/10.1051/matecconf/202134204001</a>	Dragos Fotau, Mihai Magyari, Lucian Moldovan, Diana Sălășan
30.	Considerations regarding the inspection of equipment designed for use in potentially explosive atmospheres	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134204002">https://doi.org/10.1051/matecconf/202134204002</a>	Lucian Moldovan, Mihai Magyari, Marcel Daniel Rad, Clementina Sabina Moldovan, Sorin Zsido

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31.	Considerations regarding the new requirements for the evaluation of rotating electric machines with increased safety protection type "e"	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134204003">https://doi.org/10.1051/matecconf/202134204003</a>	Marcel Daniel Rad, Diana Sălășan, Sorin Zsido
32.	Aspects of laboratory tests for determining the minimum ignition energy of the air / fuel dust mixture	MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134204004">https://doi.org/10.1051/matecconf/202134204004</a>	Mihai Catalin Popa, Nan Marin Silviu, Mihaela Paraian, Adrian Marius Jurca, Florin Adrian Păun

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33.	Quality assurance of test results for the determination of Ingress Protection Code for Ex equipment enclosures	<p>MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134201010">https://doi.org/10.1051/matecconf/202134201010</a></p>	<p>Dan Gabor, Niculina Vatavu, Mihai Catalin Popa, Florin Adrian Păun, Adrian Marius Jurca</p>
34.	Practical aspects regarding the evaluation of equipment and installations operating in potentially explosive atmospheres	<p>MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134201011">https://doi.org/10.1051/matecconf/202134201011</a></p>	<p>Tiberiu Csaszar, Sorin Burian, Cosmin Ioan Colda, Marius Darie, Emilian Ghicioi</p>

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35.	Analysis of the purge time values for pressurized enclosure using a parameterized CFD model	<p>MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134204005">https://doi.org/10.1051/matecconf/202134204005</a></p>	<p>Danut Grecea, Gabriela Pupazan, Zoltan Vass, Cosmin Colda, Adriana Andris</p>
36.	Summary of requirements for the use of cells and batteries in potentially explosive atmospheres	<p>MATEC Web of Conferences Volume 342 (2021) 9th edition of the International Multidisciplinary Symposium “UNIVERSITARIA SIMPRO 2021”: Quality and Innovation in Education, Research and Industry - the Success Triangle for a Sustainable Economic, Social and Environmental Development” Petrosani, Romania, May 27-28, 2021 DOI: <a href="https://doi.org/10.1051/matecconf/202134204006">https://doi.org/10.1051/matecconf/202134204006</a></p>	<p>Adriana Andris, Marius Darie, Danut Grecea, Sorin Burian, Tiberiu Csaszar</p>
37.	Study of heavy metals toxicity level in workplace atmosphere by alternative methods	<p>World Multidisciplinary Earth Sciences Symposium WMESS</p>	<p>Lorand Toth, Angela Calămar, Alexandru Simion, Cristian Nicolescu, Izabella Kovacs</p>
38.	IMMISSIONS PROFILING USING AI	<p>World Multidisciplinary Earth Sciences Symposium WMESS</p>	<p>Marius Darie, Angela Calămar, Sorin Burian, Marius Kovacs, Alexandru Simion</p>

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39.	Restructuring of coal mining between the climate crisis and the energy transition	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Cristian Tomescu, Doru Cioclea, Cornel Boanta, Marius Morar
40.	Computerized simulations in the vulcan mine ventilation network	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Corneliu Boanta Cristian Tomescu
41.	Experimental possibilities for industrial ventilation	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Florin Radoi, Ion Gherghe, Alexandru Camarasescu
42.	Methane emissions from the mines belonging to the Hunedoara Energy Complex	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Emeric Chiuzan, Razvan Dragoescu, Nicolae Ianc, Adrian Matei, Alexandru Camarasescu
43.	Classification of underground mining works within the TG. OCNA salt mine from the point of view of gas emissions	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Adrian Matei, Nicolae Ianc

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44.	Speed distribution in the exhaust diffuser of the air fan	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Ion Gherghe, Doru Cioclea, Florin Radoi, Emeric Chiuzean and Razvan Dragoescu
45.	Determination of flammability parameters for organic waste resulting from the processing of sunflower seeds	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Andrei Szollosi-Mota, Maria Prodan, Vasilica Irina Nalboc, Niculina Sonia Suvar
46.	Self-ignition temperature of the dust accumulations for sunflower and wood powders	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Maria Prodan, Andrei Szollosi-Mota, Irina Nalboc, Sonia Suvar, Adrian Jurca
47.	Environmental and ecotoxicological risk assessment of pollution with light crude oil for an oil exploitation field	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Alexandru Florin Simion, Angelica Nicoleta Găman, George Artur Gaman, Ionuț Drăgoi, Cătălina Ghiță
48.	Investigating atmosphere's environmental components and work environment of a household landfill's platform	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Angelica-Nicoleta Gaman, Alexandru Simion, Marius Kovacs, Izabella Kovacs

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49.	Assessment of explosion risk for wood dust in a ventilation-dust separation installation, by determining the concentration of total dust in suspension inside of the installation	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Marius Emilian Kovacs, Lorand Toth, Sorin Simion
50.	Stress and psychological resilience in intervention and rescue activities	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Izabella Kovacs, Andrei Lucian Gireada, Lorand Toth, Sorin Simion
51.	Research on labor consumption and rescuers' physiological parameters progress in the case of practical training in a mobile training facility	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Cristian Nicolescu, George Artur Gaman, Daniel Pupazan, Cosmin Ilie
52.	Research on rescuers' training process in toxic / explosive / flammable environments	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Andrei-Lucian Gireada, Cosmin Ilie, Alin Irimia, Izabella Kovacs
53.	Research on the use of virtual reality in intervention and rescue activities	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Alin Irimia, Emilian Ghicioi, Daniel Pupazan, Cristian Nicolescu

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54.	Considerations regarding Ex d IIB + H2 method of protection in the case of flameproof electrical equipment	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Mihai Magyari, Lucian Moldovan, Marcel Rad
55.	Considerations regarding the choice of cable glands for electrical equipment used in potentially explosive atmospheres	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Marcel Daniel Rad, Dragos Fotau, Diana Sălășan, Sorin Zsido
56.	Considerations regarding test methods against dust and water ingress protection for EX equipment	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Niculina Vatavu, Mihaela Paraian, Sorin Vatavu, Catalin Mihai Popa
57.	Explosion prevention and mitigation in plants which process, generate and store combustible dusts	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Adrian Marius Jurca, Mihaela Paraian, Niculina Vatavu
58.	Application of flammability testing methods for conveyor belts intended for use in potentially explosive atmospheres in order to select suitable types for field application	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Florin Adrian Paun, Dan Sorin Gabor

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61.	Specific aspects on the adequate selection of electric equipment intended for use in potentially explosive atmospheres	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Lucian Moldovan, Mihai Magyari, Dragoș Fotău, Clementina Sabina Moldovan
62.	Using FPGA reconfigurable integrated circuits for monitoring, controlling and managing industrial processes in potentially explosive atmospheres	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Cosmin Ioan Colda, Gheorghe Marc, Sorin Burian, Marius Darie
63.	Construction and safety aspects for the arrangement of mobile explosive deposits	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Robert Laszlo, Bogdan Garaliu, Stefan Ilici, Aurelian Nicola, Ștefan Ușurelu, Ionuț Zamblau

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64.	Determination of non-hazardous areas in terms of seismic effect for the use of explosives in the quarry in safe conditions	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Edward Gheorghiosu, Daniela Carmen Rus, Stefan Ilici, Sorin Mihai
65.	Evaluation of the mechanical resistance of rheophores of the means of initiation for explosive's materials, on the basis of the resistance to abrasion determined with the OPVA 10 specialized equipment	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Cristian Radeanu, Dragos Gabriel Vasilescu, Claudia Miron, Florin Vedinas, Ladislau Peter Radermacher
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67.	Technical solutions for the evaluation of the effect of explosion pressure when detoning various explosive loads in view of increasing the degree of societal security	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Ilie Ciprian Jitea, Robert Laszlo, Olga Miclea, Anton Darsy, Claudius Popescu
68.	Best practices in the field of specific risk specification of pyrotechnic entertainment articles subject to legal and illegal market surveillance	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Bogdan Garaliu-Busoi, Daniela Rus, Claudia Miron, Olga Miclea, Dan Pintilie

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70.	The advantage of modern progress on occupational safety and health with the help of online applications/ platforms	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Andrada Denisa Babut, Cristian Raul Cioara, Daniel Florea
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72.	Discharge and atmospheric dispersion modelling in case of hazardous material releases	MATEC Web of Conferences Volume 354 (2022) 10th International Symposium on Occupational Health and Safety (SESAM 2021) Petrosani (Online Edition), Romania, October 18, 2021	Vlad Mihai Pasculescu, Emilian Ghicioi, Ligia Ioana Tuhut, Adrian Bogdan Simon-Marinica, Dragos Pasculescu
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78.	Using the PIV techniques in the expertise of gas explosions	Revista Minelor Vol. 27 Issue 2/2021 ISSN-L 1220-2053 / ISSN 2247-8590 Pag. 30	Nicolae Ioan Vlasin, George Artur Găman, Emilian Ghicioi, Gheorghe Daniel Florea, Adrian Bogdan Șimon-Marinică

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79.	Update of the ventilation network related to Livezeni Mine	Revista Minelor Vol. 27 Issue 2/2021 ISSN-L 1220-2053 / ISSN 2247-8590 Pag. 1	Eva Biro, Sorin Mihai Radu, <b>Doru Cioclea, Ion Gherghe</b>
80.	Modeling of the complex ventilation network related to Livezeni Mine	Revista Minelor Vol. 27 Issue 2/2021 ISSN-L 1220-2053 / ISSN 2247-8590 Pag. 6	Eva Biro, Sorin Mihai Radu, <b>Doru Cioclea, Ion Gherghe</b>
81.	Investigation of kinetics, thermal behaviors and evolved gases of gel explosive	XLII National Conference on Calorimetry, Thermal Analysis and Applied Thermodynamics January 27 - 28 2021 Online, Udine	Florin Manea, Titus Vlase, Maria Prodan, Sonia Șuvar, Emilian Ghicioi
82.	Explosives precursors qualitative and cantitative determination by validated ftir method	XXIth International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management - SGEM 2021	Sonia Suvar, Maria Prodan, Irina Nălboc, Andrei Szlolloși - Moța, Nicolae Ianc
83.	Experimental determination of explosion characteristics for wood powder derivated from technological processes	XXIth International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management - SGEM 2021	Irina Nălboc, Sonia Suvar, Maria Prodan, Andrei Szlolloși - Moța, Andrian Jurca
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85.	Reverse the ventilation at trotus salt mine by using gallery 401 to enter fresh air	XXIth International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management - SGEM 2021	Doru Cioclea Corneliu Boantă Adrian Matei Răzvan Drăgoescu Alexandru Cămărășescu

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92.	Considerations regarding the influence of the design construction of high voltage flameproof motors on explosion behaviour when tested in explosive mixtures .	XXIth International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management - SGEM 2021	Mihai Magyari, Marcel Rad, Diana Sălășan, Cosmin Colda, Dănuț Grecea
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94.	Technological and safety aspects in the execution of blasting works in firedamp salt mines	XXIth International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management - SGEM 2021	Laszlo Robert, Emilian Ghicioi, Ilici Stefan, Bogdan Garaliu Busoi, Aurelian Nicola
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97.	Technical principles of explosion-protection in the oil and gas	XXIth International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management - SGEM 2021	Vlad Mihai Pasculescu, Ligia Ioana Tuhut, Marius Morar, Marius Cornel Suvar, Cristian Raul Cioara

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98.	How does it affect the health of the population according to the particle size classes of dust particles in the urban area of an average city in Romania	IV INTERNATIONAL CONFERENCE ON ATMOSPHERIC DUST MONOPOLI - ITALY   13-16 SEPTEMBER 2021	Marius Kovacs Angelica Calamar Lorand Toth
99.	Analiza riscurilor în contextul activității de salvare în medii nefavorabile	A XVI - a ediție a Conferinței Zilele Academiei de Științe Tehnice din România (ASTR) 2021	George Artur Găman, Emilian Ghicioi, Daniel Pupăzan, Izabella Kovacs
100.	Experimental blast tests on light non-load bearing external walls	XVII-a Conferință Națională de Construcții Metalice Bucharest, Romania, October 28-29, 2021	Dinu Florea, Călin Neagu, Ioan Mărginean, <b>Robert Laszlo, Emilian Ghicioi</b> , Mihal Senila, Bogdan Heghes, Mihai Constantinescu