

Listă de lucrări DINIȚĂ Alin

Teza de doctorat

Analiza teoretico–experimentală a influenței defectelor realizate prin deformare elasto-plastică locală asupra rezistenței mecanice a conductelor pentru transportul gazelor naturale, 604/10.01.2012, U.P.G. Ploiești, coordonator științific prof. univ. dr. ing. Gheorghe ZECHERU.

Articole si publicatii stiintifice indexate Web of Science Thomson Reuters (WOS)

Nr. crt.	Denumire articol
1.	I. Lambrescu, A. Dinița , M. Minescu, About the Influence of the Corrosion Defect Geometry on Repaired Pipes Stress Distribution, Journal of Pressure Vessel Technology 143 (1), 2020 – autor corespondent

Articole si publicatii stiintifice indexate Web of Science Thomson Reuters (WOS)

Nr. crt.	Denumire articol
1.	Dumitrescu, A., Diniță , A Efficiency assessment of the composite materials repair systems intended for corrosion damaged pipelines, (2019) Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering - OMAE

Articole si publicatii stiintifice indexate Web of Science Thomson Reuters (WOS)

Nr. crt.	Denumire articol
1.	Neața A., Diniță A. , Baranowsk P., Sybilski K., Naim R.I., Malachowski J., Blyukher B., Experimental and Numerical Testing of Gas Pipeline Subjected to Excavator Elements Interference, Journal of Pressure Vessel Technology - Transactions of the ASME Vol. 138, Issue. 3, Numărul articolului: 031701, ISSN: 0094-9930, eISSN, (2016) WOS:000376086600017
2.	Zecheru, Gheorghe; Lata, Ilie E.; Draghici, Gheorghe; Dinița A. , Mechanical Properties of a New Composite Sleeve for Pipeline Repair, MATERIALE PLASTICE Volume: 48 Issue: 1 Pages: 88-92 Published: MAR 2011
3.	Stanescu, Marius Marinel; Bolcu, Dumitru; Cluca, Ion; Dinița A. , Non Uniformity of Composite Materials Reinforced with Carbon and Carbon-Kevlar Fibers Fabric, MATERIALE PLASTICE Volume: 51 Issue: 4 Pages: 355-358 Published: DEC 2014
4.	Durbaca, Adrian Costin; Iatan, Radu; Durbaca, Ion; A. Diniță. , Vasilescu, M., Experimental Research on the Triangular Lattice Type Polymer Based Composites Structures for Sandwich Panels Construction, MATERIALE PLASTICE Volume: 54 Issue: 4 Pages: 639-644 Published: DEC 2017
5.	Bolcu, Dumitru; Sava, Mihaela; Dinița, Alin ; C. M. Miritoiu, F. Baci, The Influence of Discontinuities on Elastic and Mechanical Properties of Composite Materials Reinforced with Woven Carbon, Carbon-kevlar and Kevlar, MATERIALE PLASTICE Volume: 53 Issue: 1 Pages: 23-28 Published: MAR 2016
6.	Bolcu, D., Stanescu, M.M., Ciuca, I., Miritoiu, C.M., Dinița, A. , Bolcu, A., A study regarding the mechanical properties of a hybrid matrix with various volume proportions of dammar, (2020) Materiale Plastice, 57 (1), pp. 133-140.
7.	Bolcu, D; Stanescu, MM; Ciuca, I; Dinița, A; Rosca, A; Rosca, D, Experimental Research into the Mechanical Behaviour of Dammar and Sandarac - Based Bio Resins, MATERIALE PLASTICE, Volume: 56 Issue: 1 Pages: 1-5, Published: MAR 2019
8.	Ripeanu, R.G., Badicioiu, M., Caltaru, M., Dinița, A. , Laudacescu, E., Tribological characterization of the drill collars and casing friction couples, (2018) IOP Conference Series: Materials Science and Engineering, 295 (1), art. no. 012009, conference paper
9.	Caltaru, M., Badicioiu, M., Ripeanu, R.G., Dinița, A. , Minescu, M., Laudacescu, E., Tribological characterization of the drill pipe tool joints reconditioned by using welding technologies, (2018) IOP Conference Series: Materials Science and Engineering, 295 (1), art. no. 012010, conference paper

Nr. crt.	Denumire articol
10.	Ri, J.H.a, Ripeanu, R.-G., Dinita, A. , Erosion Modeling in Parallel Gate Valve, FME Transactions, Open Access, Volume 48, Issue 4, 2020, Pages 808-815

Articole si publicatii stiintifice BDI - autor corespondent/prim autor

Nr. crt.	Denumire articol
1.	Dinita, A. ; Lambrescu, I.; Chebakov, M. I.; et al., Finite Element Stress Analysis of Pipelines with Advanced Composite Repair, NON-DESTRUCTIVE TESTING AND REPAIR OF PIPELINES; Book Series: Engineering Materials Pages: 289-309 Published: 2018
2.	Dinita, A. , Conformity assessment of the measurement accuracy in testing laboratories using a software application, Conference: 13th International Conference on Tribology (ROTRIB), SEP 22-24, 2016, 13TH INTERNATIONAL CONFERENCE ON TRIBOLOGY (ROTRIB'16) Book Series: IOP Conference Series-Materials Science and Engineering Volume: 174
3.	Diniță, A. , Minescu, M., Dumitrescu, A., Teodoriu, C., Săraru, C., Assessment of variations in the physico-mechanical properties of fiberglass tubing working in different environments; Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering – OMAE, Volume 8, 2019, ASME 2019 38th International Conference on Ocean, Offshore and Arctic Engineering, OMAE 2019; Glasgow; United Kingdom; 9 June 2019 through 14 June 2019; Code 154931

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Nr. crt.	Denumire articol
1.	Caltaru, M.M., Badicioiu, M., Dinita, A. , Zisopol, D.G., Ripeanu, R.G., Minescu, M. Influence of chemical corrosive environment with H2S on drill strings, experimental researches, (2020) Revista de Chimie, 71 (4), pp. 29-37.
2.	Lambrescu, I., Dinita, A. , Minescu, M., Considerations on the evaluation and management of volumetric surface defects on pipelines using 3D scanning and finite element analysis, Revista de Chimie, Volume 71, Issue 4, April 2020, Pages 19-28
3.	Ciocoiu, R., Navodariu, N., Dinita, A. , Trante, O., Milea, C., Ciuca, I., Coman, R., Saceleanu, V., Surface repairs by mmaw and mig-influences on fracture energy, (2019) UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 81 (3), pp. 209-218
4.	Durbacă, A.-C., Iatan, R., Durbacă, I., Diniță, A. , Rusănescu, C.O., Experimental aspects of the application of strain gauges on sandwich type circular plates from, polymer composite materials in pressure vessels, (2018) UPB Scientific Bulletin, Series D: Mechanical Engineering, 80 (3), pp. 131-140.
5.	Ionescu, G.C., Nae, I., Ripeanu, R.G., Dinita, A. , Stan, G., Studies on Tribological Behavior of Aluminum Nitride-Coated Steel, (2017) IOP Conference Series: Materials Science and Engineering, 174 (1), art. no. 012052
6.	Coman, R., Ciocoiu, R., Dinita, A. , Ciucă, I., Mechanical characteristics alteration of a steel used in water turbine blades, (2016) Solid State Phenomena, 254, pp. 194-199.
7.	Lambrescu, I., Minescu, M., Diniță, A. , Implementing of 3D scanning techniques in the analytical and numerical assessment of pipelines with volumetric surface defects, (2019) Revista de Chimie, 70 (12), pp. 4138-4144.
8.	C Dudu, AC Drumeanu, RG Ripeanu, A Dinita , Some considerations regarding the influence of working conditions on the corrosion wear of the injection water treatment plant equipment, IOP Conference Series: Materials Science and Engineering, Volume 724, (ROTRIB'19) 19–21 September 2019
9.	AM Lospa, RG Ripeanu, A Dinita , Erosion modelling: a systematic review of available models and equations, IOP Conference Series: Materials Science and Engineering, Volume 724, (ROTRIB'19) 19–21 September 2019
10.	Lospa, A.M., Dudu, C., Ripeanu, R.G., Dinita, A. , CFD Evaluation of sand erosion wear rate in pipe bends used in technological installations, (2019) IOP Conference Series: Materials Science and Engineering, 514 (1), art. no. 012009, conference paper
11.	Dudu, C., Ripeanu, R.G., Drumeanu, A.C., Dinita, A. , Lospa, A.M., Evaluation of the corrosion wear speed of different equipment in the water injection treatment plant, IOP Conference Series: Materials Science and Engineering, 514 (1), art. no. 012008

Brevete de invenție indexate Web of Science-Derwent innovation

Nr. crt.	Denumire brevet
1.	Cramariuc R., Diniță A. , Drăghici G., Neacșa A., Petrescu M. G., Tudor I, Ulmanu V., Zecheru G., Stand for testing smart control devices for pipes (Stand pentru testarea dispozitivelor de control inteligent al conductelor), nr. a 2006 00894, din data 28.02.2013.

Produse, tehnologii, platforme si servicii inovative (validate conform procedurilor specifice unitatilor de invatamant superior sau de cercetare) coordonator/prim autor, co-autor

Nr. crt.	Produse, tehnologii, platforme si servicii inovative
1.	Procedura de sudare pe conductele de transport gaze naturale aflate sub presiune, contract 37/2015
2.	Procedurii de reparare prin sudare în condiții de temperatură scăzută și a Procedurii de utilizare a păturilor ceramice de preîncălzire în vederea sudării, contract 18/2015
3.	Tehnologii de fabricare și montaj, cu și fără sudare, a elementelor de tip teu sau manșon pentru efectuarea lucrărilor de reparare sau cuplare pe conductele aflate sub presiune, contract 41/2010
4.	Tehnice privind mentenanța Sistemului Național de Transport, contract 32/2007
5.	Procedură de tip Fitness – For – Service în conformitate cu standardul API 579, precum și evaluarea stării tehnice a unui tronson de conductă real, contract 58/2010
6.	Ghid pentru stabilirea claselor și categoriile de importanță pentru conductele și componentele SNT în conformitate cu legislația în vigoare, contract 23/2013
7.	Stand pentru evaluarea modului general de degradare a elementelor de interconectare a echipamentelor, 12588/2017

Monografii/cărți de specialitate, format tipărit/electronic - coordonator/prim autor

Nr. crt.	Monografii de specialitate/ carti de specialitate, format tiparit/electronic
1.	Zecheru, Gh.; Dumitrescu, Andrei; Dinița, A. ; Design of Composite Repair Systems, NON-DESTRUCTIVE TESTING AND REPAIR OF PIPELINES, Book Series: Engineering Materials Pages: 268-284 ; Published: 2018
2.	Dumitrescu, Andrei; Zecheru, Gh.; Dinița, A. , Characterisation of Volumetric Surface Defects, NON-DESTRUCTIVE TESTING AND REPAIR OF PIPELINES; Book Series: Engineering Materials Pages: 117-135 Published: 2018
3.	Evgeny Barkanov, Mitko Mihovski, Vladimir Sergienko, Innovative Solutions in Repair of Gas and Oil Pipelines - Chapter X, Baranowsk P., Neacșa A., Diniță A. , Naim R.I., Malachowski J., Sybilski K., The research of ultrasonic antenna array for non-destructive testing of extended technological pipelines, p. 120 - 146, Bulgarian Society for Non-destructive Testing Publishers, Sofia, ISBN 978-619-90662-0-1, p. 260 (total), 2016.

Centralizare articole/lucrări științifice publicate

1. About the Influence of the Corrosion Defect Geometry on Repaired Pipes Stress Distribution
I Lambrescu, **A Dinita**, M Minescu
Journal of Pressure Vessel Technology 143 (1), 2020
2. A Study Regarding the Mechanical Properties of a Hybrid Matrix with Various Volume Proportions of Dammar
D Bolcu, MM Stanescu, I Ciuca, CM Miritoiu, **A Dinita**, A Bolcu
MATERIALE PLASTICE 57 (1), 133-140, 2020
3. Erosion modeling in parallel gate valve
JH Ri, RG Ripeanu, **A Dinita**
FME Transactions 48 (4), 808-815, 2020
4. Tribological Characterization of Some Elastomers Used at Progressive Cavity and Piston Pumps
NMI Al, NN Antonescu, **A Dinita**, M Morosanu
MATEC Web of Conferences 318, 01016, 2020
5. Some considerations regarding the influence of working conditions on the corrosion wear of the injection water treatment plant equipment
C Dudu, AC Drumeanu, RG Ripeanu, **A Dinita**
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6. Erosion modelling: a systematic review of available models and equations
AM Lospa, RG Ripeanu, **A Dinita**
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7. Influence of Chemical Corrosive Environment with H₂S on Drill Strings, Experimental Researches
MM CALTARU, M BADICIOIU, **A DINITA**, DG ZISOPOL, RG RIPEANU, M MINESCU
Rev. Chim., 71 (4), 2020, 29-37, 2020
8. Effect of Elevated Temperatures on Fiber Glass Composite Pipes used for Geothermal Well Completions
A Olteanu, M Minescu, **A Dinita**, C Teodoriu
PROCEEDINGS, 45th Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, California, February 10-12, SGP-TR-216, 2020
9. Efficiency Assessment of the Composite Materials Repair Systems Intended for Corrosion Damaged Pipelines
A Dumitrescu, **A Diniță**
International Conference on Offshore Mechanics and Arctic Engineering 58875, 2019
10. Assessment of Variations in the Physico-Mechanical Properties of Fiberglass Tubing Working in Different Environments
A Diniță, M Minescu, A Dumitrescu, C Teodoriu, CȘ Săraru
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11. CFD Evaluation of sand erosion wear rate in pipe bends used in technological installations
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12. Evaluation of the corrosion wear speed of different equipment in the water injection treatment plant
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13. Experimental Research into the Mechanical Behaviour of Dammar and Sandarac-Based Bio Resins
D Bolcu, MM Stanescu, I Ciuca, **A Dinita**, A Rosca, D Rosca
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14. SURFACE REPAIRS BY MMAW AND MIG-INFLUENCES ON FRACTURE ENERGY
R Ciocoiu, N Navodariu, **A Dinita**, O Trante, C Milea, I Ciuca, R Coman, V Saceleanu
U.P.B. Sci. Bull., Series B, Vol. 81, Iss. 3, ISSN 1454-2331, 2019
15. Tribological characterization of the drill pipe tool joints reconditioned by using welding technologies
M Caltaru, M Badicioiu, RG Ripeanu, **A Dinita**, M Minescu, E Laudacescu
MS&E 295 (1), 012010, 2018
16. Tribological characterization of the drill collars and casing friction couples
RG Ripeanu, M Badicioiu, M Caltaru, **A Dinita**, E Laudacescu
MS&E 295 (1), 012009, 2018
17. Design of composite repair systems
G Zecheru, A Dumitrescu, **A Diniță**, P Yukhymets
Non-destructive Testing and Repair of Pipelines, 269-285, 2018
18. Characterisation of Volumetric Surface Defects
19. A Dumitrescu, G Zecheru, **A Diniță**
Non-destructive Testing and Repair of Pipelines, 117-135, 2018
20. Finite Element Stress Analysis of Pipelines With Advanced Composite Repair
A Diniță, I Lambrescu, MI Chebakov, G Dumitru
Non-destructive Testing and Repair of Pipelines, 289-309, 2018
21. Experimental aspects of the application of strain gauges on sandwich type circular plates from polymer composite materials in pressure vessels

- Ac Durbacă, R Iatan, I Durbacă, **A Diniță**, Co Rusănescu
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22. Experimental Research on the Triangular Lattice Type Polymer Based Composites Structures for Sandwich Panels Construction
AC Durbaca, R Iatan, I Durbaca, **A Dinita**, M Vasilescu
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 23. Consolidation of a Pipe Using Composite Materials. Real Case Study.
G Dumitru, **A Diniță**
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 24. Studies on Tribological Behavior of Aluminum Nitride-Coated Steel
GC Ionescu, I Nae, RG Ripeanu, **A Dinita**, G Stan
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 25. Conformity assessment of the measurement accuracy in testing laboratories using a software application
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 26. Investigations Regarding the Failure Causes of a Natural Gas Transmission Pipeline.
G Zecheru, G Drăghici, A Dumitrescu, **A Diniță**
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 27. Experimental and numerical testing of gas pipeline subjected to excavator elements interference
N Adrian, **A Dinita**, P Baranowski, K Sybilski, RI Naim, J Malachowski, ...
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 28. The influence of discontinuities on elastic and mechanical properties of composite materials reinforced with woven carbon, carbon-kevlar and kevlar
D Bolcu, M Sava, **A Dinita**, CM Miritoiu, F Baciu
Mater. Plast 53, 23-28, 2016
 29. Mechanical Characteristics Alteration of a Steel Used in Water Turbine Blades
R Coman, R Ciocoiu, **A Dinita**, I Ciucă
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 30. Non uniformity of composite materials reinforced with carbon and carbon-kevlar fibers fabric
MM Stanescu, D Bolcu, I Ciuca, **A Dinita**
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 31. Temporal Evolution of the Steel Pipes Quality Requirements for the Natural Gas Transmission Pipelines.
G Zecheru, IE Lața, F Bîrsan, G Drăghici, **A Diniță**, Petroleum-Gas University of Ploiesti Bulletin, Technical Series 65 (4), 2013
 32. Strength and Toughness Properties of Steel Pipes in the Superannuated Pipelines of the National Natural Gas Transmission System.
G Zecheru, IE Lața, F Bîrsan, G Drăghici, **A Diniță**, Petroleum-Gas University of Ploiesti Bulletin, Technical Series 65 (4), 2013
 33. Fatigue Life Estimation Based on the Correlation between the Plastic Strain Energy per Cycle and the Specimen Heating During Cycling.
V Ulmanu, G Drăghici, N Șuga, **A Diniță**
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 34. Analysis of Helical Shaft Fracture during Exploitation of Rotary Screw Compressor.
A Diniță, E Nicolae
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 35. The failure of a natural gas transmission pipeline caused by a third-party damage
Z Gheorghe, D Gheorghe, LE Ilie, B Lucian, **A Dinita**
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 36. Mechanical properties of a new composite sleeve for pipeline repair
G Zecheru, IE Lața, G Drăghici, **A Diniță**
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