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Section 4 – Materials and Structures

(in alphabetical order of the first author)

No.	Author(s)	Title of paper	Section number	Company
1	Viorel ANGHEL, Stefan SOROHAN, Ioan STOICA	On The Buckling Analysis of a Cold Formed Steel Profile Arch Structure	4	"POLITEHNICA" University of Bucharest, Strength of Materials Department, Splaiul Independentei no. 313, Sector 6, Code 060042, Bucharest, Romania
2	Theodor ASAVEI ¹ , Marilena TOMUT ² , Mariana BOBEICA ¹ , Sohichiroh AOGAKI ¹ , Mihail CERNAIANU ¹ , Daniel URSESCU ¹ , Dan STUTMAN ¹	Materials in Extreme Environments at ELI-NP	4	¹ ELI-NP, "Horia Hulubei" National Institute for Physics and Nuclear Engineering, 30 Reactorului Street, RO-077125, Bucharest-Magurele, Romania ² GSI Helmholtzzentrum für Schwerionenforschung GmbH, 64291 Darmstadt, Germany
3	Grigore CICAN, Alexandru-Daniel MITRACHE	Rocket Solid Propellant Alternative Based on Ammonium Dinitramide	4	"POLITEHNICA" University of Bucharest, Faculty of Aerospace Engineering, Gh. Polizu Street 1-5, 011061, Bucharest, Romania
4	Alina DRAGOMIRESCU ^{*1} , Adriana STEFAN ¹ , Victor MANOLIU ² , Alexandru MIHAILESCU ¹ , Gheorghe IONESCU ² , Mihail BOTAN ¹	The oxidation behavior of classical thermal barrier coatings exposed to extreme temperature	4	¹ INCAS – National Institute for Aerospace Research "Elie Carafoli", B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania ² AEROSPACE Consulting, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania
5	Victor MANOLIU ¹ , Gheorghe IONESCU ¹ , Mihai BOTAN ² ,	Advanced Ceramic Coatings in Aeronautics	4	¹ AEROSPACE Consulting, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania, ² INCAS – National Institute for Aerospace Research "Elie Carafoli", Materials Unit, B-dul

	Adriana STEFAN ² , Alina DRAGOMIRESCU* ²			Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania
6	Camelia Elena MUNTEANU, Alexandru-Mihai CISMILIANU	VTVL concept optimisation of the landing gear	4	INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania
7	Claudia NICULESCU, Adrian SALISTEAN, Georgeta POPESCU	Harness/Container Equipment for Parachutes with Variable Volume	4	National R&D Institute for Textile and Leather Bucharest (INCDTP), 16 Lucretiu Patrascanu, 030508 Bucharest, Romania
8	George PELIN ^{1,2} , Camelia MUNTEANU ¹ , Cristina-Elisabeta PELIN ¹ , Adriana STEFAN ¹	Mechanical Tests and Model Finite Element Analysis for Ablative Phenolic Composites Nanofilled with Silicon Carbide	4	¹ INCAS – National Institute for Aerospace Research “Elie Carafoli”, Materials Unit, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania ² “POLITEHNICA” University of Bucharest, Faculty of Applied Chemistry and Materials Science, 1-7 Gh. Polizu St, 011061, Bucharest, Romania
9	Radu-Robert PITICESCU ¹ , Victor MANOLIU ² , Alexandru MIHAILESCU ³ , Arcadii SOBETKII ¹ , Gheorghe IONESCU ² , Adrian Mihail MOTOC ¹	Zirconia Compounds Coatings on C Substrates: Combinatorial EB-PVD Deposition and Thermal Characterisation	4	¹ National R&D Institute for Nonferrous and Rare Metals, 102 Biruintei Blvd, Pantelimon 077145, Romania ² AEROSPACE Consulting, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania ³ INCAS – National Institute for Aerospace Research “Elie Carafoli”, Materials Unit, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania
10	Cristian POSTOLACHE, Viorel FUGARU	Multipurpose Interaction Chamber for Evaluation of the Outer Space Effects in Condensed Matter	4	Horia Hulubei National Institute for Physics and Nuclear Engineering, 30, Reactorului St., Magurele, Ilfov, Romania
11	Adriana Georgeta SANDU*, Marin SANDU, Stefan SOROHAN, Dan Mihai CONSTANTINESCU	Dimensioning of a Sandwich Panel with Orthotropic Core Consisting of Lightweight Profiles	4	“POLITEHNICA” University of Bucharest, Department of Strength of Materials, Splaiul Independenței 313, 060042, Bucharest, Romania
12	Stefan SOROHAN*, Dan Mihai CONSTANTINESCU, Marin SANDU, Adriana Georgeta SANDU	Use of Modal Fea for Accurate Estimation of out of Plane Shear Moduli of Honeycomb Cores in Sandwich Panels	4	“POLITEHNICA” University of Bucharest, Department of Strength of Materials, Splaiul Independenței 313, 060042, Bucharest, Romania