UNIVERSITATEA
LUCIAN BLAGA
DIN SIBIU

Ministerul Educaţiei
Universitatea „Lucian Blaga" din Sibiu

Facultatea de Inginerie

Nr. 499 data 28.06.2021

ANEXĂ LA HOTĂRÂREA SENATULUI
NR. 2718 DIN 08.07.2021

APROBAT
Consiliul de Administrație
din data de 30.06.2021

CĂTRE,

Senatul U.L.B.S.
În atenţia dlui Preşedinte
Prof.univ.dr.ing. Ioan BONDREA

Vă transmitem spre aprobarea Senatului Universităţii „Lucian Blaga" din Sibiu, propunea Facultăţii de Inginerie pentru decernarea titlului de Doctor Honoris Causa domnului Acad. Dorel BANABIC.

Menţionăm că propunerea a fost avizată, cu unanimitate de voturi, în şedinta Consiliului Facultatii din data de 28 iunie 2021.

Ataşam următoarele documente:

- Curriculum Vitae;
- Lista de lucrări;
- Memoriu de activitate;
- Extras al şedinţei Consiliului facultatii nr 498 din 28 iunie 2021.

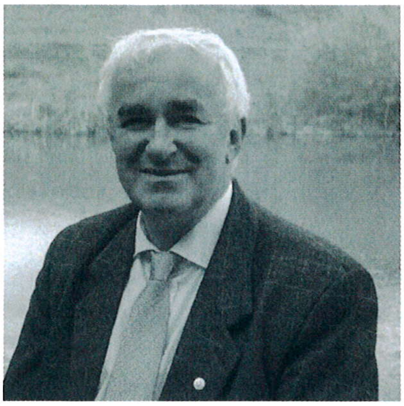
DECAN,

Prof.univ.dr.ing. Sever - Gabriel RACZ

ROMÂNIA MINISTERUL EDUCAȚIEI NAȚIONALE UNIVERSITATEA „LUCIAN BLAGA" DIN SIBIU FACULTATEA DE INGINERIE

Str. Emil Cioran, Nr. 4
550025 Sibiu, România
inginerie.ulbsibiu.ro

Tel.: +40 269 21.79.28
Fax: +40 269 21.27.16
E-mail: inginerie@ulbsibiu.ro



CURRICULUM VITAE

DATE PERSONALE

Numele	**BANABIC**
Prenumele	**DOREL**
Data nasterii	[redacted]
Locul nasterii	Ciceu-Giurgesti, Bistrita- Nasaud
Adresa	Univ. Tehnica din Cluj-Napoca Facultatea de Constructii de Masini Dept. de Ingineria Fabricatiei B-dul Muncii, 103-105, Cluj-Napoca, ROMANIA Tel.0264-401733, Fax.0264-415603 e.mail: [redacted]@tcm.utcluj.ro

FORMARE PROFESIONALA

1971-1975	Liceul Andrei Muresanu, Dej (Clasa Speciala de matematica)
1975-1980	Institutul Politehnic din Cluj-Napoca Facultatea de Mecanica, Sectia TCM
1980	Diploma de inginer mecanic
1989-1993	Doctorand în specialitatea Deformari Plastice
nov.1993	Sustinerea tezei de doctorat cu titlul"**Cercetari privind deformabilitatea tablelor metalice subtiri"**
oct.-dec. 1990 oct.-nov. 1991 oct.1992-ian.1993	Stagii de specializare la Universitatea Tehnica din Varsovia, Polonia (Prof. *Z. Marciniak*)
mai-iul.1993 dec.1995	Stagii de specializare la Ecole des Mines de Paris, CEMEF Sophia Antipolis (Prof. *J.L. Chenot*)
nov.-dec.1994 nov.-dec.1995	Stagii de specializare la Universitatea din Stuttgart, Institut fur Umformtechnik (*Prof. K. Siegert*)

ACTIVITATEA PROFESIONALA

1980-1984	**Inginer proiectant** la Intreprinderea "Mecanica" din Sibiu si Fabrica de masini de rectificat "Napomar" din Cluj-Napoca
1984-1996	**Asistent universitar, Sef de lucrari** si **Conferentiar** la Institutul Politehnic din Cluj-Napoca, Catedra TCM
Din 1996	**Profesor** la Universitatea Tehnica din Cluj-Napoca, Catedra TCM
1994-1996	**Director** al Departamentului de Cercetare Stiintifica al CCSTTII din Universitatea Tehnica din Cluj-Napoca
Din 2000	**Director** al Centrului de Cercetari in Domeniul in Tehnologia Deformarii Tablelor (CERTETA) din cadrul Universitatii Tehnice din Cluj Napoca (acreditat de CNCSIS din 2002)
Din 1999-	**Conducator de doctorat** in Stiinte Ingineresti
1996-1998	**Cercetator invitat** la Institutul de Deformari Plastice, Universitatea din Stuttgart, Germania, in cadrul unei burse Humboldt
Iul-Oct. 1999	**Cercetator invitat** la Institutul de Deformari Plastice, Universitatea din Stuttgart
Iun-Iul.1999	**Cercetator invitat** la Universitatea Paris Nord, Franta
Ian-Mar 2000	**Profesor invitat** la Universitatea Franche-Comte, Besancon, Franta

Iun-Iul 2000	**Profesor invitat** la Universitatea Paris Nord, Franta
Nov. 2001	**Profesor invitat** la Universitatea Tehnica din Chemnitz, Germania
Iulie 2002	**Profesor invitat** la RWTH Aachen, Germania
2000-2004	**Profesor** la Universitatile din Stuttgart, Germania si Universitatea Tehnica din Cluj-Napoca
Dec. 2006	**Profesor invitat** la Universitatea Ulster din Belfast, UK
Iun-Iul 2007	**Profesor invitat** la Universitatea din Metz, Franta
Sept 2010	**Profesor invitat** la Universitatea Tehnica de Stat din Moscova, Rusia
Sept. 2009	**Profesor invitat** la Scoala de vara **SMART 2009**, Univ. din Palermo, Italia
Sept. 2011	**Profesor invitat** la Scoala de vara **SMART 2011**, Univ. din Erlangen, Germania
Sept 2013	**Profesor invitat** la Scoala de vara de la Universitatea Tehnica de Stat din Moscova, Rusia
Oct 2013	**Profesor invitat** la Scoala de vara **SMART 2013**, Univ. din Palermo, Italia
Dec 2013	**Profesor invitat** la Universitatea Warwick, Anglia
Nov 2018	**Profesor invitat** la Universitatea din Palermo, Italia
Nov-Dec 2019	**Profesor invitat** la IIT Warangal (Programul GIAN)
	Membru in 16 comisii de doctorat din strainatate (Franta, Portugalia, Norvegia, Germania, Olanda, Iran si India)
Ian 2021-	**Honorary professor** Xian University, China
2006-2014	**Membru** al Comisiei de Stiinte Ingineresti a CNCSIS, respectiv CNCS
2006-2014	**Membru** al Comisiei Prezidentiale pentru Analiza si Elaborarea Politicilor din Domeniul Educatiei si Cercetarii
2011-2016	**Membru** al Colegiului Consultativ al Cercetarii, Dezvoltarii si Inovarii (CCCDI) al ANCS
2010-2012 si din 2020-	**Vicepresedinte** al Consiliului Naţional de Atestare a Titlurilor, Diplomelor şi Certificatelor Universitare (CNATDCU)
din 2012	**Vicepresedinte** al Consiliului Cercetarii al Universitatii Tehnice din Cluj Napoca
din 2012	**Director** al Scolii Doctorale a Facultatii de Constructii de Masini din cadrul Universitatii Tehnice din Cluj Napoca

ACTIVITATEA STIINTIFICA

1990-2012	**Participant** activ la peste 100 conferinte internationale in: Germania, Anglia, Franta, Portugalia, Norvegia, Belgia, Austria, Italia, SUA, China, Grecia, Corea de Sud, Japonia, India, Australia, Ungaria, Polonia, Cehia, Bosnia, Bulgaria, Slovenia, Serbia, Spania, Romania.
2004-2009	**Coordonator** al grupului de cercetare in proiectul «Virtual Inteligent Forging» in cadrul FP6
2004-2008	**Director** al proiectului de cercetare ***Sheet metal formability for special metal forming processes (superplastic forming and hydroforming at very high pressure),*** finantat de Fundatia Humboldt
2004-2008	**Co-Director** al proiectului de cercetare ***Improvement of performances of formability models for sheet metals using new constitutive laws***, finantat de Swiss National Foundation.
2009-2012	**Coordonator** grup cercetare in proiectul FP7 **Virtual Factory Framework**
2010-2013	**Director** al proiectului PCCE **Modelarea continua - de la micro la macro scara - a materialelor avansate in fabricatia virtuala**

Membru in Comitetele stiintifice a peste 100 de conferinte internationale: NUMISHEET'99, Besancon-Franta ; NUMISHEET 2002, Seul-Corea de Sud ; NUMISHEET 2005, Detroit-USA; NUMISHEET 2008, Interlaken-Elvetia; NUMISHEET-2011, Seoul, Korea; NUMISHEET-2014, Melbourne, Australia; NUMISHEET-2016, Bristol, UK; NUMISHEET-2018 Tokyo, Japan; NUMISHEET-2021, Toronto, Canada; NUMIFORM 2007, Porto, Portugalia; NUMIFORM 2010, Gyongiu-Corea de Sud ; NUMIFORM 2013, Shenyang, China; NUMIFORM 2016, Troys, France; NUMIFORM 2019, New Hampshire, US ; ESAFORM 2001, Liege-Belgia; ESAFORM 2002, Cracovia-Polonia; ESAFORM 2003, Salerno-Italia; ESAFORM 2004, Torndheim-Norvegia; ESAFORM 2005 (Presedintele comitetului de organizare), Cluj Napoca, Romania; ESAFORM 2006, Glasgow, UK; ESAFORM 2007, Zaragoza, Spania; ESAFORM 2008, Lyon, Franta; ESAFORM 2009, Enshede, Netherlands; ESAFORM 2010, Brescia, Italy; ESAFORM 2011, Belfast, UK; ESAFORM 2012, Erlangen, Germania; ESAFORM 2013, Aveiro, Portugalia; ESAFORM 2014, Helsinki, Finland; ESAFORM 2015, Graz, Austria; ESAFORM 2016, Nantes, France; ESAFORM 2017, Dublin, Ireland; ESAFORM 2018 Palermo, Italia; ESAFORM 2019 Vitoria, Spania; ESAFORM 2020, Coburg, Germania; ESAFORM 2021, Liege, Belgia; ESAFORM 2022, Braga, Portugal; EUROMECH 2002, Liege-Belgia; SIA 2007, Caen-Franta ; ICTP 2007, Gyeongju-Corea de Sud ; ICTP 2011, Aachen, Germany ; ICTP 2014, Nagoya, Japan; ICTP 2017, Cambridge, UK ; ICTP 2021, Columbus, US; ICTMP 2010, Nisa, Franta ; ICIT'99, ICIT 2001, Maribor, Slovenia ; AMME'97, AMME'98, AMME'99, AMME 2000, AMME2001, AMME2002, AMME2003, AMME2005 Gliwice-Poland ; DEMI '98, DEMI 2000 Banja Luka-Bosnia ; SMF 2007, Bombay, India; ICCMM 2011, Guwahati, India; KOMPLASTECH 2009, KOMPLASTECH 2011, KOMPLASTECH 2013, KOMPLASTECH 2015, KOMPLASTECH 2017, KOMPLASTECH 2019 Krakow, Poland; DIE-MOLDS 2009, Kusadasi, Turkey; DIE-MOLDS 2011, Ankara, Turkey; DIE-MOLDS 2013, Antalya, Turkey; DIE-MOLDS 2015, Turkey; SHEMET 2007, Palermo, Italia; SHEMET 2009, Birmingham, UK; SHEMET-2011, Leuven, Belgia; SHEMET-2013, Belfast, UK; SHEMET 2015, Erlangen, Germany; SHEMET 2017, Palermo, Italy; SHEMET 2019, Leuven, Belgia; SHEMET 2021, Erlangen, Germany; AEPA 2008, Daejon, Korea; AEPA 2010, Wuhan, China; AEPA 2012, Singapore; AEPA 2018 Jeju, Korea; ECCOMAS 2012, Aveiro, Portugalia; ICNFT 2012, Harbin, China; ICNFT 2018, Bremen, Germania; IDDRG 2012, Bombay, India; IDDRG 2013, Zurich, Elvetia; IDDRG 2014, Paris, Franta; IDDRG 2015, Shanghai, China; IDDRG 2016, Linz, Austria; IDDRG 2017, Munchen, Germania; IDDRG 2018 Waterloo, Canada; IDDRG 2019, Eindhoven, Olanda; IDDRG 2020, Busan, Korea; IDDRG 2021, Stuttgart, Germany; CIRP-CMS-2016, Stuttgart, Germania; Metal Forming 2016, Krakow, Poland; Metal Forming 2018, Krakow, Poland; Metal Forming 2020, Krakow, Poland; Metal Forming 2010, Toyohashi, Japonia; ICAFT 2018 Chemnitz, Germania; Industrial Technology and Management (ICITM 2019), Cambridge, UK; Int. Conf. Computational Methods in Manufacturing, 2019, Guwahati, India; AEROSPATIAL 2018, Bucuresti, Romania; AEROSPATIAL 2020, Bucuresti, Romania; ModTech 2020, Eforie Nord, Romania; NewTech 2020, Bucegi, Romania; SISOM 2018, SISOM 2019, SISOM 2020, SISOM 2021, Bucuresti, Romania; MTeM2001, MTeM2003, MTeM2005, MTeM2007 MTeM2009, MTeM2011, MTeM2013, MTeM-2015, MTeM-2017, MTeM-2019, MTeM-2021 Cluj-Napoca; MSE 2003, MSE 2007, MSE-2009, MSE-2011, MSE-2013, MSE-2015, MSE-2017, MSE-2019, MSE-2021 Sibiu, Romania; ASTR 2009, Cluj Napoca, Romania (Co-presedinte al comitetului de organizare) ; SISOM 2019, SISOM 2020 , Bucuresti, Romania (Co-presedinte al comitetului de organizare) ; TPR2000 Cluj-Napoca, Romania (Presedintele comitetului de organizare).

MEMBRU IN ORGANIZATII STIINTIFICE

2012-2016	**Presedinte** al Asociatiei Europene de Deformarea Materialelor (ESAFORM) (www.esaform.org)
Din 1998	**Membru** al Asociatiei Europene de Deformarea Materialelor (ESAFORM)

Din 1999	**Membru** al Comitetului stiintific al Asociatiei Europene de Deformarea Materialelor (ESAFORM)
Din 2000	**Membru** al ***Consiliului Director*** al Asociatiei Europene de Deformarea Materialelor (ESAFORM) (www.esaform.org)
2000-2008	**Secretar** al Asociatiei Europene de Deformarea Materialelor (ESAFORM*)* (reales in 2002, 2004 si 2006)
2008-2012	**Vicepresedinte** al Asociatiei Europene de Deformarea Materialelor (ESAFORM*)*
Din 2013	**Membru titular** al ***Academiei de Stiinte Tehnice din Romania***, sectia de Stiinta si Ingineria Materialelor (corespondent din 2005) (www.astr.ro)
Din 2014	**Membru titular** al ***Academiei Internationale de Ingineria Productiei (CIRP)*** (corespondent din 2005) (www.cirp.net)
Din 2015	**Membru titular** al **Academiei Romane** (corespondent din anul 2009) *(*www.academiaromana.ro*)*
Din 2015	**Presedintele Sectiei de Stiinte Tehnice** a **Academiei Romane** (www.acad.ro/sectii/sectia08_tehnica/teh_presedinte.htm)
Din 2015	**Membru al Prezidiului Academiei Romane**
Din 2018	**Presedintele Diviziei de Istoria Tehnicii** a **CRIFST**
Din 2018	**Vicepresedinte** al **Comitetului Roman de Istoria si Filosofia Stiintei si Tehnicii (CRIFST)** al Academiei Romane

Evaluator pentru proiecte de cercetare pentru urmatoarele agentii:

The Research Council of Norway
German Research Foundation (DFG)
National Research Council Canada
Italian National Agency for the Evaluation of Universities and Research Institutes
Research Foundation Flanders (FWO), Belgium
Netherlands Organisation for Scientific Research (NWO)
New Eurasia Foundation, Russia
Science & Engineering Research Council, Singapore
Chile's Research Council
The Fundação para a Ciência e a Tecnologia, Portugal

Membru in Supervisor Board al centrului de excelenta in **Stiinţa Materialelor şi Biomateriale** al Universitatii Tehnice din Gliwice, Polonia

Editor in Chief al Revistei **Proceedings of the Romanian Academy,** Editura Academiei Romane

Editor in Chief al Revistei **Romanian Journal of Technical Sciences–Applied Mechanics,** Editura Academiei Romane

Editor in Chief al **Buletinului Asociatiei Europene de Deformarea Materialelor** (ESAFORM)

Associate Editor al Revistei **International Journal of Material Forming,** Springer, Germania

Associate Editor al Revistei **International Journal of Forming Processes,** Hermes, Paris, Franta

Membru in Editorial Board al Revistei **Memoirs of the Scientific Sections of the Romanian Academy,** Editura Academiei Romane.

Membru in Editorial Board al Revistei NOEMA, Editura Academiei Romane.

Membru in Editorial Board al revistei **Forging & Stamping Technology,** Beijing, China

Membru in Editorial Board al revistei **Iranian Journal of Materials Forming,** Shiraz, Iran

Membru in Editorial Board al Revistei **Computed Method in Materials Science**, Polonia

Membru in Editorial Board al Revistei **Journal of Production Processes and Systems,** Ungaria

Membru in Editorial Board al Revistei **Forging and Stamping Production (Kuznecino Stampovocinoe Proizvosdvo)**, Moscova

Membru in Editorial Board al Revistei **Manufacturing Review**, EDP Science, Franta

PREMII si DISTINCTII

Premiul Traian Vuia al Academiei Romane pe anul 2002 pentru lucrarea "***Formability of Metallic Materials***"
Premiul Leonardo da Vinci pe anul 2006 al Comisiei Europene pentru programul de e-learning **ALUMATTER**
Medalia de bronz a Presedentiei Germaniei pe anul 2006 pentru programul de e-learning **ALUMATTER**
Lee Hsun Award pe anul 2015 acordata de **Institute of Metal Research Shenyang of the Chinese Science Academy**
Ordinul național „Steaua României" în grad de Cavaler, Decembrie 2016.

PUBLICATII

Carti publicate in tara **17**
A coordonat doua volume de Istoria Tehnicii din cadrul seriei Civilizatia Romaneasca a Editurii Academiei Romane..

Carti publicate in strainatate **6** (la editurile Springer (4), Science Press Beijing (1) si Hermes (1))

Contributii cu capitole in carti **12** (4 in tara si 8 in strainatate in editurile Elsevier, Wiley, Springer, CRC Press)
A contribuit cu capitole la doua enciclopedii:

1. *Encyclopedia of Production Engineering, Springer, Heidelberg-Berlin, 2014, 2019*
2. *Encyclopedia of Aluminium and its Alloys, CRC Press, New York, 2019.*

Articole publicate sau prezentate:	**372**
-Conferinte nationale	**47**
-Conferinte internationale	**205**
din care cotate ISI	**50**
-în reviste:	**120**
din care cotate ISI	**98**
Brevete de inventii	**1**

Peste 120 de articole publicate in colaborare cu cercetatori din Germania, Franta, Suedia, Elvetia, Anglia, Portugalia, Polonia, Belgia, Iran, Arabia Saudita, China, Suedia, Norvegia, Olanda, Corea de sud, Bielorusia, Ucraina, Turcia, Japonia, Slovenia, USA.

Citari pe ISI Web of Science	**1811**
Indicele Hirsch (ISI Web of Science)	**19**
Citari pe **Scholar Google**	**~5000**
Indice Hirsch (Scholar Google)	**34**

Informatii suplimentare se gasesc pe pagina de web :
http://users.utcluj.ro/~banabic/

Cluj Napoca
06.07.2021

Acad. Dorel BANABIC
Universitatea Tehnica din Cluj Napoca

LISTA DE LUCRARI
06 iunie 2021

A. CARTI

A.1 CARTI PUBLICATE IN ROMANIA

1. Tapalaga I., Achimas Gh., Iancau H., **Banabic D.**, Coldea A., ***Tehnologia presarii la rece*** *(Indrumator de lucrari de laborator)*, Litografia I.P.C.N., Cluj-Napoca, 1986, 244 pag.
2. Deacu L., **Banabic D.**, Radulescu M., Ratiu C., ***Tehnica hidraulicii proportionale***, Editura Dacia, Cluj-Napoca, 1989, 312 pag.
3. **Banabic D.**, Dörr I.R., ***Deformabilitatea tablelor metalice subtiri. Metoda curbelor limita de deformare***, Editura OIDICM, Bucuresti, 1992, 246 pag., ISBN 973-95641-1-9.
4. **Banabic D.**, Dörr I.R., ***Modelarea matematica a proceselor de deformare plastica a tablelor metalice***, Editura Transilvania Press, Cluj-Napoca, 1995, 226 pag., ISBN - 973-97041-9-0.
5. **Banabic D.**, ***Introducere in teoria plasticitatii***, Universitatea Tehnica din Cluj-Napoca, 1994, 56 pag.
6. Vida Simiti I., **Banabic D.**, Bicsak E., Canta T., Domsa S.,, Kerekes L., Soporan V., ***Deformabilitatea materialelor metalice***, Editura Dacia, Cluj-Napoca, 1996, 362 pag., ISBN 973-35-0555-2.
7. **Banabic D.**, Lucrarile Conferintei "***Tehnologii si masini pentru prelucrarea prin deformare plastica a metalelor***", Editor: Banabic D., Editura Printek 2000, Cluj Napoca, 2000, 286 pag. (ISBN 973-97486-5).
8. **Banabic D.**, ***Cold Metal Forming,*** Proc. of the "***TPR 2000***" Conference, Printek 2000, Cluj-Napoca, 2000, 226 pag., ISBN 973-97486-3.
9. **Banabic D**. (Editor), ***Proceedings of the 8th ESAFORM Conference on Material Forming***, The Publishing House of the Romanian Academy, Bucharest, 2005, Vol 1 and Vol. 2, XXII+539, XXII+584 pag. (Vol.1, ISBN: 973-27-1174-4, Vol. 2, ISBN: 973-27-1175-2).
10. Wagner S., Baur J., **Banabic D.**, ***Umformtechnik***, UTPRESS, Cluj Napoca, 2011, 336 pag (ISBN 978-973-662-544-2)
11. Munteanu R., **Banabic D.**, ***Ingineria Românească: Trecut, Prezent şi Viitor***, Lucrările celei de-a Treia Conferințe Naționale a Academiei de Ştiinţe Tehnice din România, Mediamira, Cluj Napoca, 2008, 470 pag. (ISBN 978-973-713-223-9).
12. Lăzărescu L., Părăianu L., **Banabic D.**, **Bazele proceselor de deformare plastică, Aplicații practice**, UTPRESS Cluj Napoca, 2011, 206 pag (ISBN 978-973-662-659-3).
13. Lăzărescu L., Comşa D.S., **Banabic D.**, **Proiectarea tehnologiilor si a matritelor pentru prelucrarea tablelor metalice**, Casa Cărţii de Ştiinţă, Cluj Napoca, 2017, 266 pag. (ISBN 978-606-17-1119-2)
14. Lăzărescu L., Comşa D.S., **Banabic D.**, **Analiza cu elemente finite a proceselor de prelucrare prin deformare plastică**, Casa Cărţii de Ştiinţă, Cluj Napoca, 2018, (ISBN 978-606-17-1314-1)
15. Frangopol P., **Banabic D.**, David D., **Educaţia şi cercetarea românească. Starea prezentă şi perspectiva**, Casa Cărţii de Ştiinţă, Cluj Napoca, 2018, 288 pag. (ISBN 978-606-17-1284-7)
16. **Banabic D,** Bădescu V., Leonăchescu, N., Marin V, (Coordonatori) **Ingineri români.**

Dicţionar enciclopedic, Vol. III, Editura Mira, Bucureşti, 2019, 364 pag. (ISBN 978-606-543-724-1).

17. **Banabic D,** Bădescu V., Rusu D., Marin V, (Coordonatori) **Ingineri români. Dicţionar enciclopedic, Vol. IV,** Editura Mira, Bucureşti, 2020, 400 pag. (ISBN 978-606-543-724-1).
18. **Banabic D.,** (Coordonator), **Istoria tehnicii şi industriei româneşti (Mecanica, tehnicile de prelucrare şi construcţiile),** Editura Academiei Române, Bucureşti, 2020, ISBN 978-973-27-3054-6.
19. **Banabic D.,** (Coordonator), **Istoria tehnicii şi industriei româneşti (Electrotehnica, energetica, transporturile şi învăţământul tehnic),** Editura Academiei Române, Bucureşti, 2020, ISBN 978-973-27-3055-3.

A.2 CARTI PUBLICATE IN STRAINATATE

1. **Banabic D.,** Bünge H.J., Pöhlandt K., Tekkaya A.E., ***Formability of Metallic Materials,*** Editor: **Banabic D.**, Springer Verlag, Heidelberg, 2000 (358 pag), ISBN 3-540-67906-5.
2. **Banabic D.**, (Editor), ***Advanced Methods in Material Forming***, Springer, Heidelberg, 2007 (376 pag), ISBN 3-540-69844-2.
3. **Banabic D.,** (Guest Editor), ***Modelling and Experiments in Material Forming***, Hermes-Lavoisier, Paris, 2007, ISBN 978-2-7462-1775-1 (134 pag).
4. **Banabic D. *Sheet Metal Forming Processes***, Springer, Heidelberg, 2010 (307 pag) (ISBN 978-3-540-88112-4).
5. **Banabic D., *Sheet Metal Forming Processes***, Science Press, Beijing, 2015 (250 pag) (in chineza)
6. **Banabic D., *Multiscale modelling in sheet metal forming***, Springer, Heidelberg, 2016, (425 pag) (ISBN 978-3-319-44070-5)

B. CONTRIBUTII LA CARTI

B.1 PUBLICATE IN ROMANIA

1. Deacu L., **Banabic D.**, Radulescu M., Ratiu C., ***Sisteme hidraulice proportionale***, In: TCMM, Vol.2, Editura Tehnica, Bucuresti, 1987, p.152-187.
2. **Banabic D.,** Cercetarea aplicata in domeniul tehnologiilor de fabricaţie din Romania, În: ***Pentru excelenţă în ştiinţa românească*** (Eds.: Frangopol P., Zamfir N.V., Braun T.), Casa Cărţii de Ştiinţă, Cluj Napoca, 2008, p. 113-132 (ISBN 978-973-133-405-9).
3. **Banabic D.,** Axenciuc V., *Evoluţia numărului de absolvenţi de învăţământ tehnic din românia în perioada 1871-2016*, În: ***Educaţia şi cercetarea românească. Starea prezentă şi perspectiva,*** Eds. Frangopol P., Banabic D., David, D., Casa Cărţii de Ştiinţă, Cluj Napoca, 2018, p.89-107.
4. **Banabic D., Filip I.,** 70 de ani de promovare a ştiinţei şi tehnicii româneşti, În: Editura Academiei Române-70, Editura Academiei Române, Bucureşti, 2018, p. 265-270 (ISBN 978-973-27-2991-5).

B.2 PUBLICATE IN STRAINATATE

1. **Banabic D.**, Sheet metal predicted by using the new (1993) Hill's yield criterion, In: ***Advanced Methods in Materials Processing Defects*** (Studies in Applied Mechanics Serie, Vol. 45), (Editors: Predeleanu M., Gilormini P.), Elsevier Science, Amsterdam, 1997, p.257-265, ISBN 0-444-82271-2.
2. Barlat F., Cazacu O., Zyczkowski M., **Banabic D.**, Yoon J.-W., Yield surface plasticity and anisotropy, In: ***Continuum Scale Simulation of Engineering Materials. Fundamentals-Microstructures-Process Applications,*** (Editors: D. Raabe, L.-Q.

Chen, F. Barlat, F. Roters), Wiley-VCH, Weinheim, 2004, p.145-185, ISBN 3-527-30760-5.

3. **Banabic D.**, Tekkaya E.A., Forming Simulation, In: ***Virtual Fabrication of Aluminum Alloys: Microstructural Modeling in Industrial Aluminum Production***, (Editor: J. Hirsch), Wiley-VCH, Weinheim 2006, p. 275-303 (ISBN: 3-527-31363-X).
4. **Banabic D.,** Barlat F., Cazacu O., Kuwabara T., Anisotropy and formability, In: ***Advances in Material Forming-ESAFORM 10 Years on***, (Editors: Chinesta F., Cueto, E.), Springer, Heidelberg, 2007, p.143-173 (ISBN: 978-2-287-72142-7).
5. **Banabic D.,** Material models in sheet metal forming simulation, In: Automotive sheet metal forming, (Editors: Verma R.K., Bhattacharjee D.), McGraw Hill, 2008, p.42-48 (ISBN: 978-0-07-025218-9).
6. Felice L., **Banabic D.,** Formability and damage, In: (Eds.: L. Laperrière, G. Reinhart, Encyclopedia of Production Engineering), Springer, Heidelberg-Berlin, 2014, p.539-547 (ISBN 978-3-642-20616-0)
7. Brosius A., **Banabic D.,** Anisotropy, In: (Eds.: L. Laperrière, G. Reinhart, Encyclopedia of Production Engineering), Springer, Heidelberg-Berlin,2014, p. 40-47 (ISBN 978-3-642-20616-0)
8. **Banabic D**, Fliessortkriteria, In: (Ed.: Siegert K., Blechumformtechnik, Springer, Heidelberg-Berlin, 2015, p. 309-323 (ISBN 978-3-540-02488-0).
9. **Banabic D.,** Comsa D.S., BBC2005 yield criterion used in the numerical simulation of sheet metal forming processes, In: (Eds.:Tekkaya E.A., Homberg W., Brosius A., ***60 Excellent Inventions in Metal Forming*), ** Springer, Heidelberg Berlin, 2015, p. 11-17 (ISBN 978-3-662-46311-6)
10. **Banabic D.,** Lazarescu L., Comsa D.S., An innovative procedure for the experimental determination of the Forming Limit Curves, In: (Eds.:Tekkaya E.A., Homberg W., Brosius A., ***60 Excellent Inventions in Metal Forming*),** Springer, Heidelberg Berlin, 2015, p. 49-55 (ISBN 978-3-662-46311-6)
11. **Banabic D.,** Bălan T., Comşa D.S., Anisotropic Yield Criteria for Aluminum Alloy Sheets, In: (Ed. Totten G., Encyclopedia of Aluminium and its Alloys), CRC Press, New York, 2019, p.93-106 (ISBN 9781466510807)
12. Brosius A., **Banabic D.,** Anisotropy, In: (Eds.: S. Chatti, L. Laperrière, G. Reinhart, T. Tolio, CIRP Encyclopedia of Production Engineering), Springer, Heidelberg-Berlin, 2019, p. 66-72 (ISBN 978-3-662-53119-8)
13. **Banabic D.,** Felice L., Formability, In: (Eds.: S. Chatti, L. Laperrière, G. Reinhart, T. Tolio, CIRP Encyclopedia of Production Engineering), Springer, Heidelberg-Berlin, 2019, p.720-726 (SBN 978-3-662-53119-8)

C. ARTICOLE PUBLICATE IN REVISTE

C.1 PUBLICATE IN REVISTE ISI

1. **Banabic D.,** Valasutean S., The effect of vibratory straining upon Forming Limit Diagrams, In: Journal of Materials Processing Technology, Elsevier, Amsterdam, Vol.34(1992), p.431-437 (IF=2.041)
2. **Banabic D.**, Dorr I.R., Prediction of the Forming Limit Diagrams in pulsatory straining, Journal of Materials Processing Technology, Elsevier, Amsterdam, 45(1994), No.1-4, p.551-556 (IF=2.041).
3. **Banabic D.**, Analysis of punch-stretching in vibratory regime, Journal of Materials Processing Technology, Elsevier, Amsterdam, 60(1996), No.1-4, June, p.201-204 (IF=2.041).
4. **Banabic D.**, Formability of aluminium sheets in pulsatory straining, Materials Science Forum, 217-222(1996), p. 1335-1342.
5. **Banabic D.,** Limit strains in the sheet metals by using the 1993 Hill's yield criterion, J. of Materials Processing Technologies, 92-93(1999), p.429-432 (IF=2.041).

6. **Banabic D.**, Dannenmann E. The influence of the yield locus shape on the limits strains, J. of Materials Proc. Techn., Elsevier, Amsterdam, 109(2001), p.9-12 (IF=2.041)
7. **Banabic D.**, Balan T., Comsa D.S., Closed-form solution for bulging through elliptical dies, J. of Materials Proc. Techn., Elsevier, Amsterdam, 115(2001), p.83-86 (IF=2.041).
8. **Banabic D.**, Balan T., Comsa D.S., Analysis of local loads on the draw die profile with regard to wear using the FEM and experimental investigations, J. of Materials Proc. Techn., Elsevier, Amsterdam, 115(2001), p.153-158 (IF=2.041).
9. **Banabic D.,** T. Kuwabara, T. Balan, D. S. Comsa, Evaluation of an anisotropic yield criterion, Proceedings of the Romanian Academy, 2(2001), No.3, p.17-21 (IF=1.115).
10. **D. Banabic**, O. Cazacu, F. Barlat, D.S. Comsa, S. Wagner, K. Siegert, Recent anisotropic yield criteria for sheet metals, Proceedings of the Romanian Academy, 3(2002), No. 3, p.91-99 (IF=1.115).
11. Butuc M.C., **Banabic D.**, Barata da Rocha A., Gracio J.J., Ferreira Duarte J., Jurco P., Comsa D.S, The performance of YLD96 and BBC2000 yield functions in forming limit prediction, J. of Materials Proc. Techn., Elsevier, 125-126(2002), p.281-286 (IF=2.041).
12. **Banabic**, O. Cazacu, F. Barlat, D.S. Comsa, S. Wagner, K. Siegert, Description of the anisotropic behaviour of AA3103-0 aluminum alloy using two recent yield criteria, J. de Physique, Paris,105(2003), 297-304.
13. T. Kuwabara, D.S.Comsa, D. Banabic, E. Iizuka, Anisotropic behaviour modelling for steel sheets using different yield criteria, Key Engineering Materials, 233-2 (2003), p.841-846
14. **Banabic D.**, Kuwabara T., Balan T., Comsa D.S., Julean D., Non -Quadratic yield criterion for orthotropic sheet metals under plane-stress conditions, Int. J. Mechanical Sciences, 45(2003), Nr. 5, p. 797-811 (IF=2.061).
15. M. Vulcan, K. Siegert, **D. Banabic**, The Influence of Pulsating Strain Rates on the Superplastic Deformation Behaviour of Al-Alloy AA5083 Investigated by Means of Cone Test, Material Science Forum, 442-443(2003), p.139-145.
16. **Banabic,** Anisotropy and formability of AA5182-0 aluminium alloy sheets, Annales of CIRP, 53(2004), p. 219-222 (IF=2.541).
17. D.S. Comşa, G. Cosovici, P. Jurco, **D. Banabic,** Simulation of the hydroforming process using a new orthotropic yield criterion, J. of Materials Proc. Techn., 157-158(2004), p.67-74 (IF=2.041).
18. **Banabic D.,** D.S.Comsa, P. Jurco, G. Cosovici, L. Paraianu, D. Julean, FLD theoretical model using a new anisotropic yield criterion, J. of Materials Proc. Techn., 157-158(2004), p. 23-27 (IF=2.041).
19. **Banabic D.**, Kuwabara T., Balan T., Comsa D.S., An anisotropic yield criterion for sheet metals, J. of Materials Proc. Techn., 157-158(2004), p.462-465 (IF=2.041).
20. **D. Banabic**, H. Aretz, D.S. Comsa, L. Paraianu, An improved analytical description of orthotropy in metallic sheets, International Journal of Plasticity, 21(2005), Nr.3, p.493-512 (IF=5.971).
21. **Banabic** D., Aretz, H., Paraianu L., Jurco P., Application of various FLD modelling approaches, Journal of Modelling and Simulation in Materials Science and Engineering, 13(2005), 759-769 (IF=1.492).
22. **Banabic D.,** Vulcan M., Bulge testing under constant and variable strain rates of superplastic aluminium alloys, Annales of CIRP, 54(2005), 205-209 (IF=2.541).
23. Comsa D.S., **Banabic D.,** Numerical simulation of sheet metal forming processes using a new yield criterion, Key Engineering Materials, 344 (2007), 833-840 .
24. **D. Banabic**, M. Vos, Modelling of the Forming Limit Band –A new Method to Increase the Robustness in the Simulation of Sheet Metal Forming Processes, Annals of CIRP, 56(2007), p. 249-252 (IF=2.541).
25. Soare S., **Banabic D.,** Application of a polynomial yield function to the predictions of

limit strains, Steel Research International 79 (2008), p. 39-46 (IF=1.023).

26. M. O'Donnell, **D. Banabic**, A. G. Leacock, D. Brown, R. J. McMurray, The Effect of Pre-Strain and Inter-Stage Annealing on the Formability of a 2024 Aluminium Alloy, International Journal of Material Forming, 1(2008), p. 253-256 (doi: 10.1007/s12289-008-0356-x) (IF=1.418).
27. M. O'Donnell, A. G. Leacock, **D. Banabic**, D. Brown, R. J. McMurray,The Effect of Pre-Strain and Solution Heat Treatment on the Formability of a 2024 Aluminium Alloy, International Journal of Material Forming, 1(2008), p. 257-260 (doi: 10.1007/s12289-008-0353-0) (IF=1.418).
28. Soare S., **Banabic D.**, A note on the MK computational model for predicting the forming limit strains, International Journal of Material Forming, 1(2008), p. 281-284. (doi: 10.1007/s12289-008-0347-y) (IF=1.418).
29. S. Soare, **D. Banabic**, About the mechanical data required to describe the anisotropy of thin sheets to correctly predict the earing of deep-drawn cups, International Journal of Material Forming, 1(2008), p. 285-288. (doi: 10.1007/s12289-008-0348-x) (IF=1.418).
30. **Banabic D.,** Soare S., Assessment of the Modified Maximum Force Criterion for Aluminum Metallic Sheets, Key Engineering Materials, Vols. 410-411 (2009), p. 511-520.
31. **Banabic D.**, Hußnätter, W., Modeling the Material Behavior of Magnesium Alloy AZ31 Using Different Yield Criteria, International Journal of Advanced Manufacturing Technology, 36(2009), No.9-10, p. 969-976. (IF=1.779).
32. Soare S., **Banabic D.,** A discussion upon the sensitivity of the MK model to input data, International Journal of Material Forming, 2(2009), p. 503-506, DOI: 10.1007/s12289-009-0521-x (IF=1.418).
33. L. Paraianu, G. Dragos, I. Bichis, D. S. Comsa, **D. Banabic**, An improved version of the modified maximum force criterion (MMFC) used for predicting the localized necking in sheet metals, Proceedings of the Romanian Academy, Series A, 10(2009), nr.3, p. 237-243 (IF=1.115).
34. **D. Banabic,** G. Dragos, I. Bichis, Influence of Variability of Mechanical Data on Forming Limits Curves, Steel Research International 81 (2010), 1356-1360 (IF=1.023).
35. Soare S., **Banabic D.**, A four parameter in-plane isotropic yield function, International Journal of Material Forming, 2(2009), p.507-510, DOI:10.1007/s12289-009-0562-1 (IF=1.418).
36. L. Paraianu, G. Dragos, I. Bichis, D. S. Comsa, **D. Banabic**, A new formulation of the modified maximum force criterion (MMFC), International Journal of Material Forming, 3(2010), 243-246 (IF=1.418).
37. **D. Banabic,** F. Barlat, O. Cazacu, T. Kuwabara, Advances in Anisotropy and Formability, International Journal of Material Forming, 3(2010), 165-189 (IF=1.418).
38. L. Părăianu, S. Comsa, I. Bichiş, **D. Banabic**, Influence of the Mechanical Parameters on the Forming Limit Curve, Steel Research International, (2011), p.744-749 (IF=1.023).
39. A. Capustiac, **D. Banabic,** D. Schramm, U. Ossendoth, Motion cueing: from design until implementation, Proceedings of the Romanian Academy, Series A, 12(2011), Nr.3, p.249-256 (IF=1.115).
40. L. Lăzărescu, D. S. Comşa, **D. Banabic**, Analytical and Experimental Evaluation of the Stress-Strain Curves of Sheet Metals by Hydraulic Bulge Test, Key Engineering Materials, 473(2011), 352-359.
41. **Banabic D.,** Sester M., Influence of material models on the accuracy of the sheet forming simulation, Materials and Manufacturing Processes, 27(2012), 304-308. (IF=1.486).

42. Paraianu L., Comsa D.S., Nicodim I., Ciobanu I., **Banabic D.**, Effect of the constitutive law on the accuracy of prediction of the forming limit curves, Key Engineering Materials, 504-506(2012), 77-82.
43. L. Lăzărescu, I. Nicodim, D. S. Comşa, D. **Banabic,** A Procedure for the Evaluation of Flow Stress of Sheet Metal by Hydraulic Bulge Test Using Elliptical Dies, Key Engineering Materials, 504-506(2012), 107-112.
44. R. Jafari Nedoushan, M. Farzin, M. Mashayekhi, **D. Banabic**, A Micro-Structure Based Constitutive Model for Superplastic Forming, Metallurgical and Materials Transactions, A, 43A(2012), Nov., 4266-4280 (IF=1.73).
45. L. Lăzărescu, D.S. Comşa, I. Nicodim, I. Ciobanu, **D. Banabic,** Investigation of Bulge Radius Variation and its Effect on the Flow Stress in the Hydraulic Bulge Test, Steel Research International, (2012), 395-399 (IF=1.023)
46. A. Shamsi-Sarband, S. Abolfazl Zahedi, M. Bakhshi-Jouybari, S. Jamal Hossinipour, **D. Banabic,** Optimizitation of the pressure path in sheet metal hydroforming, Proceedings of the Romanian Academy, Series A, 13(2012), Nr.4, 351-359 (IF=1.115).
47. Lazarescu L., Comsa D.S., Nicodim I., Ciobanu I., **Banabic D.,** Characterization of plastic behaviour of sheet metals by using the hydraulic bulge test, Trans. Nonferrous Met. Soc. China, 22(2012), 275-279 (IF=1.001).
48. Biro V., **Banabic D.,** Call for standardization in material behaviour assessment systems output formats, Advance Science Letters, 19(2013), 898-902.
49. L. Părăianu, S.D. Comsa, **D. Banabic**, Influence of the Constitutive Equations on the FLC Prediction, Advance Science Letters, 19(2013), 1011-1015
50. **D. Banabic**, Effect of the constitutive laws on the accuracy of sheet metal simulation, Key Engineering Materials, 535-536(2013), 279-283
51. L. Lăzărescul, I. Ciobanu, I. Nicodim, D.S. Comşa, **D. Banabic**, Effect of the mechanical parameters used as input data in the yield criteria on the accuracy of the finite element simulation of sheet metal forming processes, Key Engineering Materials, 554-557 (2013), 204-209.
52. **D. Banabic**, L. Lazarescu, L. Paraianu, I. Ciobanu, I. Nicodim, D.S. Comsa Development of a new procedure for the experimental determination of the Forming Limit Curves, Annales of CIRP, 62(2013), 255-258 (IF=2.541).
53. M. Vrh, M. Halilovič, B. Starman, B. Štok, D.S. Comsa, **D. Banabic**, Capability of the BBC2008 yield criterion in predicting the earing profile in cup deep drawing simulations, European Journal of Mechanics A/Solids, 45(2014), 59-74 (IF=1.904).
54. F. Popa, I. Chicinaş, D. Frunză, I. Nicodim, **D. Banabic**, Influence of high deformation on the microstructure of low-carbon steel, International Journal of Minerals, Metallurgy, and Materials, 21(2014), Issue 3, 273-278 (IF= 1.261).
55. L. Părăianu, S.D. Comsa, **D. Banabic**, Influence of the identification procedure of the yield criterion on the thickness prediction of the square cup, Key Engineering Materials, 611-612 (2014), 70-75
56. S. Bruschi , T. Altan, **D. Banabic**, P.F. Bariani, A. Brosius, J. Cao, A. Ghiotti, M. Khraisheh, M. Merklein, E. Tekkaya, Testing and Modeling of Material Behavior and Formability in Sheet Metal Forming Processes, Annales of CIRP, 63(2014), 727-749 (IF=2.541).
57. A. Kami, B. Mollaei Dariani, A. Sadough Vanini, D.S. Comsa, **D. Banabic**, Application of a GTN Damage Model to Predict the Fracture of Metallic Sheets Subjected to Deep-Drawing, Proceedings of the Romanian Academy, Series A, 15(2014), 300-309 (IF=1.115).
58. Nedoushan R.J., Farzin M., **Banabic D.,** Simulation of Hot Forming Processes Using Cost Effective Micro-Structural Constitutive Models, Int. J. Mechanical Sciences, 85(2014) 196–204 (IF=2.061).
59. A. Kami, B. Mollaei Dariani, A. Sadough Vanini, D.S. Comsa, **D. Banabic**, Numerical determination of the forming limit curves of anisotropic sheet metals using

GTN damage model, J. Materials Proc. Technol., 216 (2015) 472–483 (IF=2.041).

60. L. Lăzărescu, I. Nicodim, D.S. Comşa, **D. Banabic**, Effect of the blank-holding load on the drawing force in the deep-drawing process of cylindrical and square cups, Applied Mechanics and Materials, 760(2015), 379-384.

61. L. Lăzărescu, I. Nicodim, **D. Banabic**, Evaluation of drawing force and thickness distribution in the deep-drawing process with variable blank-holding, Key Engineering Materials, 639(2015), 33-40.

62. L. Lăzărescu, D.S. Comşa, **D. Banabic**, Predictive performances of the Marciniak-Kuczynski model and Modified Maximum Force Criterion, Key Engineering Materials, 651-653(2015), 96-101.

63. D. Ionita, M. Cristea, **D. Banabic**, Viscoelastic behavior of PMMA in relation to deformation mode, Journal of Thermal Analysis and Calorimetry, 120(2015), Issue 3, 1775-1783 (IF=2.206).

64. F. Popa, I. Chicinaş, **D. Banabic**, Voids and microstructure evolution of aluminium sheet during high deformations, Advanced Engineering Forum, 13(2015), 91-96.

65. R. Nemati-Chari, K. Dehghani, A. Kami, **D. Banabic**, Application of response surface methodology for study of effective strain in equal channel angular pressing of AA6061 alloy, Proceedings of the Romanian Academy, Series A, 16(2015), 217-225 (IF=1.735).

66. D. Ionita, C. Gaina, M. Cristea, **D. Banabic**, Tailoring the hard domain cohesiveness in polyurethanes by interplay between the functionality and the content of chain extender, Royal Society of Chemistry Advances, 3(2015), 76852-76861 (IF=3.84).

67. J. Gawad, **D. Banabic**, A. Van Bael, D. S. Comsa, M. Gologanu, P. Eyckens, P. Van Houtte, D. Roose, An evolving plane stress yield criterion based on crystal plasticity virtual experiments, Int. J. Plasticity, 75(2015), 141-169 (IF=5.971).

68. **D. Banabic**, A.-M. Habraken, J. W. Yoon, Safe, flexible and efficient sheet metal forming: formability - fracture, incremental sheet forming and rolling, International Journal of Material Forming, 9(2016), p.259-260, DOI 10.1007/s12289-015-1243-x (IF=1.241).

69. Y. Barzegar, R. Jafari Nedoushan, A. Razazzade, M. Farzin, **D. Banabic**, Finite element modeling of damage evolution in cold pilgering process, Proceedings of the Romanian Academy, Series A, 17(2016), 267-276 (IF=1.735).

70. Alirezaiee, M., Jafari Nedoushan, R., **Banabic, D.,** Improvement of product thickness distribution in gas pressure forming of a hemispherical part, Proceedings of the Romanian Academy, Series A, 17(2016), 245-252 (IF=1.735).

71. **D. Banabic,** Advances in plastic anisotropy and forming limits in sheet metal forming, J. Manuf. Sci. Eng, Transaction of ASME, (2016), 138(9):090801-090801-9 (doi: 10.1115/1.4033879) (**IF= 2.578**)

72. A. Kami, B. Mollaei Dariani, D. S. Comsa, **D. Banabic**, A. Sadough Vanini, M. Liewald, An experimental study on the formability of a vibration damping sandwich sheet (Bondal), Proceedings of the Romanian Academy, Series A, 18(2017), 281-290 (IF=1.735).

73. Chun-Qing Hu, Hong-Wu Song, Hai Liu, **D. Banabic**, Shi-Hong Zhang, Ming Cheng, Shuai-Feng Chen, A statistical model for contact orientation and anisotropy in granular assemblies, Proceedings of the Romanian Academy, Series A, 19(2018), Nr.2, 175-183 (IF=1.735).

74. Y. Ma, Y. Xu, S. Zhang, **D. Banabic**, A.El-Aty, D. Chen, M. Cheng, H. Song, A.I. Pokrovsky, G. Chen, Investigation on formability enhancement of 5A06 aluminium sheet by impact hydroforming, Annales of CIRP, 67(2018), 281-284 (IF= 2.893)

75. Hints R., Vanca M., Terkaj W., Marra E.D., Temperini S., **Banabic D.**, A Virtual Factory Tool to enhance the integrated Design of Production Lines, Proceedings of the Romanian Academy, Series A, 19(2018), Nr. 3, (IF=1.735).

76. Alharthi H., Hazra S., **Banabic D.,** Dashwood R., Determination of the yield loci of four sheet materials (AA6111-T4, AC600, DX54D+Z, and H220BD+Z) by using

uniaxial tensile and hydraulic bulge tests, International Journal of Advanced Manufacturing Technology, (2018) (IF=2,209).

77. D. Lumelskyj, J. Rojek, L. Lazarescu, **D. Banabic,** Determination of forming limit curve by finite element method, Procedia Manufacturing, 27 (2019), 78–82.

78. **Banabic D.**, Barlat F., Cazacu O., Kuwabara T., Advances in Anisotropy of Plastic Behaviour and Formability of Sheet Metals, International Journal of Materials Forming, (13(2020), 749-787 (IF=1,75)

79. **Banabic D.,** Kami A., Comsa D.S., Eyckens P., Developments of the Marciniak-Kuczynski Model for Sheet Metal Formability: a Review, Journal of Materials Processing Technology (Special Issue in Honor of Prof. Marciniak), (2021) (IF=4,178).

80. Da-Yong Chen, Yong Xu, Shi-Hong Zhang, Yan Ma, Ali Abd El-Aty, **Dorel Banabic**, Artur I. Pokrovsky, Alina A. Bakinovskaya, A novel method to evaluate high strain rate formability of sheet metals under impact hydroforming, Journal of Materials Processing Technology, (2021) (IF=4.178)

81. Lucasz Madej, **Dorel Banabic**, Professor Zdzisław Marciniak—A life dedicated to metal forming, Journal of Materials Processing Technology, (2021) (IF=4.178)

82. Weihao Jiang, Wenlong Xie, Hongwu Song, Lazarescu Lucian, Shihong Zhang, **Dorel Banabic**, A modified thin-wall tube push-bending process with polyurethane mandrel, International Journal of Advanced Manufacturing Technology, 106(2020), 2509–2521. (IF=2,496).

83. Weijin Chen, Hongwu Song, Lucian Lazarescu, Yong Xu, Shi-Hong Zhang, **Dorel Banabic**, Formability analysis of hot-rolled dual-phase steel during the multistage stamping process of wheel disc, International Journal of Advanced Manufacturing Technology, 106(2020) (IF=2,496).

84. Johan Pilthammar, **Dorel Banabic**, Mats Sigvant, BBC05 with Non-Integer Exponent and Ambiguities in Nakajima Yield Surface Calibration, International Journal of Materials Forming, 13(2020) (IF=1,75)

85. Ozan SINGAR, **Dorel BANABIC**, Numerical simulation of tailored hybrid blanks, Proc. of the Romanian Academy. Series A, 21(2020), (in press) (IF=1.294)

86. Hong-wu Song, Wenlong Xie, Shi-Hong Zhang, Weihao Jiang, Lucian Lazarescu, **Dorel Banabic**, Granular media filler assisted push bending method of thin-walled tubes, International Journal of Mechanical Sciences, 198(2021) 106365 **(IF=4,631)**

C.1 PUBLICATE IN REVISTE NECOTATE ISI

1. **Banabic D.**, Asupra elementelor fluidice cu turbulenta (pneumistori), Buletinul Stiintific Seria Tehnica-matematica, vol.III, Institutul de învatamânt superior Sibiu, Sibiu, 1980 pag.304-309.

2. **Banabic D.,** Modelarea curbelor limita de deformare în conditii vibratorii utilizând teoria Marciniak-Kuczynski, Buletinul stiintific I.P.C.N., seria Metalurgie, 1992, 7-13.

3. **Banabic D.**, s.a., The theoretical determination of FLD in vibrating conditions, In: Gepyartastechnologya, Budapest, (1992), Nr.9-10, p.412-417.

4. **Banabic D.**, Modelling of the FLD in pulsatory conditions, In: Constructia de masini, Bucuresti, 44(1993), Nr.1-2(Jan.-Febr.), p.39-45

5. **Banabic D.**, Tapalaga I., Review of the criteria for determination of the blank-holding forces in deep-drawing processes, Journal of Plastic Deformation, Sibiu, 1(1994), Nr.1, p.42-47.

6. **Banabic D.**, New contributions on the mathematical modelling of the stretching process in pulsatory straining, Journal of Metallurgical Research and New Materials, Bucuresti, 3(1995), Nr.3-4, p.112-118.

7. **Banabic D.**, New developments on the mathematical model of the Forming Limit

Diagrams in pulsatory straining, Journal of Metallurgical Research and New Materials, Bucuresti, 3(1995), Nr.3-4, p.119-125.

8. **Banabic D.**, Mathematical modelling of the Forming Limit Diagrams using the new Hill's yield criterion, Journal for Technology of Plasticity, Novi Sad, Yugoslavia, 20(1995), Nr.3-4, p.52-58.
9. **Banabic D.**, Modelling of the sheets metal formability in pulsatory straining, In: Metalurgia, Bucuresti, 47(1995), Nr.3-4, p.69-73.
10. **Banabic D.**, Prediction of the Forming Limit Diagrams using the new Hill's yield criterion for orthotropic sheet metals, Journal of Plastic Deformation, Sibiu, 2(1995), Nr.2, p.38-42.
11. **Banabic D.**, Mathematical model of the Forming Limit Diagrams using the new yield criterion, In: Metallurgy and new materials researches, 4(1996), Nr. 1, p.22-28.
12. **Banabic D.**, Pöhlandt K., Yield criteria for the anisotropic sheet metal, UTF Science, 4(2001), 19-27.
13. **Banabic D.,** Wagner S., Anisotropic behaviour of aluminium alloy sheets, Aluminium, 78(2002), No. 10, p.926-930.
14. Poehlandt K., **Banabic D.**, Lange K., On the determination of friction coefficients by ring compression, Wire, 52(2002), No.4, p.46-49.
15. **D. Banabic**, O. Cazacu, F. Barlat, D.S. Comsa, S. Wagner, K. Siegert, Plastic behaviour of AA3103-0 aluminium alloy using some recent anisotropic yield criteria. (Part 1. Theoretical aspects), Acta Tehnica Napocensis, (2002), p.353-359.
16. **D. Banabic**, O. Cazacu, F. Barlat, D.S. Comsa, S. Wagner, K. Siegert, Plastic behaviour of AA3103-0 aluminium alloy using some recent anisotropic yield criteria. (Part 2. Experimental results), Acta Tehnica Napocensis, (2002), p.359-364.
17. K. Pöhlandt, **D. Banabic**, K. Lange, Plastic behavior characterisation of sheet metals using a new concept: equi-biaxial anisotropy coefficient, Acta Tehnica Napocensis, (2002), p.365-371.
18. Pöhlandt K., **Banabic D.**, Lange K., Charakterisierung der plastische Anisotropie von Blechen, UTF Science, 2003, Nr. 1, p.1-8.
19. Pöhlandt K., **Banabic D.**, Lange K., On the determination of friction coefficients by ring compression in bulk metal forming, UTF-Science, (2004), No.3, p.1-3.
20. **Banabic D.,** D.S. Comsa, M. Topologeanu An advanced material model in the simulation of a hydroforming process, Revista „Construcţia de maşini", 59(2007), No.1, 39-43.
21. R. V. Florian, D. David, D. Ciuparu, D. Szedlacsek, Ş. Szedlacsek, **D. Banabic**, A. D. Corlan, N. Dan, P. T. Frangopol, D. Funeriu, M. Ionac, T. Luchian, M. Miclea, R. C. Mureşan, E. Stamate, Sugestii de reglementări şi schimbări legislative pentru domeniul cercetării, dezvoltării, inovării, Paper online, http://www.ad-astra.ro/docs/2008_modificari_legislative_cercetare.pdf
22. L. Paraianu, **D. Banabic,** A new method for the evaluation of the yield criteria accuracy, Computer Methods in Materials Science, 9(2009), Nr. 1, p. 148-152.
23. **Banabic, D.,** A review on recent developments of Marciniak-Kuczynski model, Computer Methods in Materials Science, 10(2010), Nr. 4, 225-237.
24. Biro V., **Banabic D.**, DaCoTraP – A web based platform for metal forming process chain, Computer Methods in Materials Science, 11(2011), Nr. 1, 265-270
25. Hints, R., Vanca M., **Banabic D.,** Functional modules specific for virtual manufacturing, Computer Methods in Materials Science, 11(2011), Nr. 1, 279-283.
26. Capustiac, B. Hesse, D. Schramm, **D. Banabic**, A human centered control strategy for a driving simulator, International Journal of Mechanical & Mechatronics Engineering, 11(2011), 45-52.
27. Lazarescu L., Comsa D.S., Nicodim I., Ciobanu I., **Banabic D.,** Determination of material parameters of sheet metals using the hydraulic bulge test, Acta Metallurgica Slovaca, 19(2013), 4-12.

28. Biro V., **Banabic D.**, Prototyping a web based system for metal forming process chain assistance, Transfer Inovácií Journal, 22(2012), 155-160
29. **Banabic D.,** Gheorghe Buzdugan, Model de Inginer si Dascal, Revista de Politica Stiintei si Scientometrie, 1 (2012), nr. 4, 359-362.
30. **Banabic D.,** Academicianul Gheorghe Buzdugan-Personalitate proeminentă a ingineriei româneşti, Revista Familia Romana, (2014), nr. 2-3, p. 57-60.
31. A. Kami, B. Mollaei Dariani, A. Sadough Vanini, D.S. Comsa, **D. Banabic**, Prediction of the forming limit curves using GTN damage model, Romanian Journal of Technical Sciences - Applied Mechanics, (2014), Nr.3, 253-264.
32. Paraianu L., Comsa D.S., **Banabic D.**, Limit strains variability with respect to material scatter, Romanian Journal of Technical Sciences - Applied Mechanics, (2014), Nr. 3, 265-278.
33. **Banabic D.,** Panaite Mazilu – strălucit reprezentant al inginerilor în Academia Română, Academica, (2015), Nr.3, 63-65.
34. A. Buza, C. Văduva., **D. Banabic**, Industria IT din Cluj-Napoca: dezvoltare şi tendinţe, Revista de Politica Ştiinţei si Scientometrie – Serie Nouă, (2015), Nr. 3, 195-198.
35. **Banabic D.,** Inginerii în Academia Română: trecut, prezent şi viitor, Academica, (2016), Nr.4-5, 5-8.
36. A. Kami, B. Mollaei Dariani, D. S. Comşa, **D. Banabic**, A. Sadough Vanini, M. Liewald, Calibration of GTN damage model parameters using hydraulic bulge test, Romanian Journal of Technical Sciences - Applied Mechanics, (2016), Nr. 3, 248-264
37. **Banabic D.,** A patra revoluţie industrială a început. Este pregatita Romania pentru a face fata sfidarilor acestei noi revolutii?, Revista de Politica Ştiinţei si Scientometrie – Serie Nouă, (2016), Nr. 3, 194-201
38. **Banabic D.,** European Scientific Association for Material Forming – ESAFORM- A short presentation, Journal of the Japan Society for Technology of Plasticity, Vol. 57 (2016), No. 670, p. 1038-1041.
39. O. Andronesi, **D. Banabic**, C. Buzea, D. David, B. Florian, A. Miroiu, B. Murgescu, A. Prisăcariu, L.Vlăsceanu, Raport asupra Exerciţiului Naţional de Metaranking Universitar-2016 al Ministerului Educaţiei Naţionale şi Cercetării Ştiinţifice, Revista de Politica Ştiinţei si Scientometrie – Serie Nouă, (2016), Nr. 4, 267-277.
40. **Banabic D.,** Cercetarea românească, o Cenuşăreasă în aşteptarea prinţului, Market Watch, (2017) Aprilie, 26-27.
41. D. Lumelskyj, J. Rojek, **D. Banabic**, L. Lazarescu, Detection of strain localization in Nakazima formability test -experimental research and numerical simulation, Procedia Engineering 183 (2017) 89 – 94.
42. A. Kami, K. Chung, **D. Banabic**, Analytical and numerical studies on formability of metal/polymer/metal sandwich sheets, Romanian Journal of Technical Sciences - Applied Mechanics, (2017), Nr. 1, 28-38.
43. **Banabic D.,** Evoluţia tehnologiilor şi impactul lor social, Market Watch, 208(2018) Octombrie,
44. **Banabic D.,** Evoluţia tehnicii şi a tehnologiilor de la prima la a patra revoluţie industrial şi impactul lor social, Academica, 10-11(2018), Oct.-Nov., 16-28.
45. **Banabic D.,** A patra revoluţie industrială, Curtea de la Argeş, 99, 2(2019), 18-19.
46. A. Biallas, I. Nicodim, L. Lăzărescu, D.-S. Comşa, C. Karadogan, **D. Banabic**, ABAQUS/Explicit implementation of a constitutive model for thin sheet metals subjected to forming procedures. Part I: theory. Romanian Journal of Technical Sciences. Applied Mechanics, 64(2019), 125-135.
47. **Banabic D.,** Universităţile tehnice româneşti în faţa sfidărilor celei de-a patra revoluţii industriale, Academica, 6-7(2019), Iun.-Iul., 104-110.
48. **Banabic D.,** Răspuns la Discursul de recepţie al Academicianului Dan Dubină, Academica, 10-11(2019), Oct. Nov., 59-62.
49. **Banabic D.,** Istoria tehnicii şi industriei româneşti, Curtea de la Argeş, 116(2020),

Iulie, 14-15.

50. **Banabic D.,** Întâlnirile mele cu Academicianul Solomon Marcus, Curtea de la Argeş, 116(2020), Octombrie.
51. O. Singar, **D. Banabic**, Characterization and application of Tailored hybrid blanks, Romanian Journal of Technical Sciences. Applied Mechanics, 65(2020), 37-52.
52. **Banabic D.,** History of Romanian technology and industry. A short presentation of the treatise. Romanian Journal of Technical Sciences - Applied Mechanics, (2020), Nr. 2.

C. LUCRARI PUBLICATE IN VOLUMELE CONFERINTELOR INTERNATIONALE COTATE ISI

1. **Banabic D.,** Formability of aluminium sheets in pulsatory straining, Proc of the 5th Int. Conf. on Aluminium Alloys ICAA-5", Grenoble, 1996.
2. T. Kuwabara, D.S.Comsa, **D. Banabic**, E. Iizuka, Anisotropic behaviour modelling for steel sheets using different yield criteria, AEPA '02, Sydney, 2002, p.841-846.
3. **D. Banabic,** O. Cazacu, L. Paraianu, P. Jurco, Recent Developments in the Formability of Aluminum Alloys, Proc. of the NUMISHEET 2005 Conference, Detroit, 2005, AIP Proc. 778, p.466-472.
4. **D. Banabic**, M. Vos, L. Paraianu, P. Jurco, Increasing the Robustness of the Sheet Metal Forming Simulation by the Prediction of the Forming Limit Band, The 9th International Conference on Numerical Methods of Industrial Forming Processes, NUMIFORM 2007, Porto, 2007, p.171-178
5. Comsa, D.S., Dragos, G., Paraianu, L., **Banabic, D.,** Prediction of the Forming Limit Band for Steel Sheets using a new Formulation of Hora's Criterion (MMFC), AMPT 2010, Paris, AIP Conf. Proc. 1315, p.425-430.
6. L. Lăzărescu, D.S. Comsa, **D. Banabic**, Analytical and experimental evaluation of the stress-strain curves of sheet metals by hydraulic bulge tests, 14 International Conference on Sheet Metal SHEMET 2011, Leuven, AIP Conf. Proc. Vol.13(2011).
7. L. Lăzărescu, D.S. Comsa, **D. Banabic**, Determination of stress-strain curves of sheet metals by hydraulic bulge test, ESAFORM 2011, AIP Conf. Proc. Vol.1353(2011), 1429-1434
8. L. Paraianu, I. Bichis, **D. Banabic**, Variability analysis of the mechanical parameters in order to determine the Forming Limit Band, ESAFORM 2011, AIP Conf. Proc. Vol.1353(2011), 1511-1516
9. M. Vrh, M. Halilovič, B. Starman, B. Štok, D.S. Comsa, **D Banabic**, Earing prediction in cup drawing using the BBC2008 yield criterion, Numisheet 2011, Seoul, AIP Proc. 1383(2011), 142-149
10. Paraianu L., Comsa D.S., Nicodim I., Ciobanu I., **Banabic D.**, Effect of the constitutive law on the accuracy of prediction of the forming limit curves, ESAFORM 2012 Conference, Erlangen, 2012.
11. L. Lăzărescu, I. Nicodim, D. S. Comşa, **D. Banabic**, A Procedure for the Evaluation of Flow Stress of Sheet Metal by Hydraulic Bulge Test Using Elliptical Dies, ESAFORM 2012 Conference, Erlangen, 2012.
12. **Banabic D.,** Effect of the constitutive laws on the accuracy of sheet metal simulation, Key Engineering Materials Volume: 535-536 Pages: 279-283, 2013
13. L. Părăianu, **D. Banabic**, Characterization of the plastic behaviour of AA6016-T4 aluminium alloy, Interdisciplinary Research in Engineering Conference INTERIN 2013, Cluj Napoca, Feb.2013
14. L. Lăzărescu, **D. Banabic**, Influence of material property variability on the thickness in sheet metal subjected to the hydraulic bulging, Interdisciplinary Research in Engineering Conference INTERIN 2013, Cluj Napoca, Feb.2013
15. L. Lăzărescu1, I. Ciobanu, I. Nicodim, D.S. Comşa, **D. Banabic**, Effect of the mechanical parameters used as input data in the yield criteria on the accuracy of the

finite element simulation of sheet metal forming processes, ESAFORM 2013 Conf., Aveiro, April 2013.

16. M. Gologanu, D. S. Comsa, **D. Banabic,** Theoretical Model for Forming Limit Diagram Predictions without Initial Inhomogeneity, NUMIFORM 2013 Conference, Shenyang, China, AIP Conf. Proc., 1532 (2013), p.245-253 (Invited paper).
17. J. Gawad, **D. Banabic,** D.S. Comsa, M. Gologanu, A. Van Bael, P. Eyckens, P. Van Houtte, D. Roose, Evolving texture-informed anisotropic yield criterion for sheet forming, The 9th International Conference and Workshop on Numerical Simulation of 3D Sheet Metal Forming Processes NUMISHEET 2014, Melbourne, AIP Proc. 1567, 2013, p.350-355 (Keynote Paper).
18. H. Alharthi, S. Hazra, **D. Banabic**, R. Dashwood, Analytical methodology for the determination of the flow curves of aluminum and steel alloys using the hydraulic bulge tests, AIP Conf. Proc., Vol. 1769, 200004.1-6, 2015
19. D.S. Comsa, L. Lăzărescu, **D. Banabic,** Assessing the Formability of Metallic Sheets by Means of Localized and Diffuse Necking Models, AIP Conf. Proc. Vol. 1769, 2000010.1-6, 2015
20. L. Lăzărescu, **D. Banabic** Evaluation of deep drawing force under different friction conditions, MATEC Web of Conf. (MTeM 2017), 137, 05003 (2017)
21. A. Kami, **D. Banabic**, Experimental Formability Analysis of Bondal Sandwich Sheet, ESAFORM 2018 Conf., Palermo, 22-25 April 2018, AIP Conf. Proc. Vol. 1960, 150005-1-6.
22. D. Lumelskyj, L. Lazarescu, **D. Banabic**, J. Rojek, Comparison of two methods for detection of strain localization in sheet forming, ESAFORM 2018 Conf., Palermo, 22-25 April 2018, AIP Conf. Proc. Vol. 1960, 170010-1-6.
23. D. Lumelskyj, L. Lazarescu, **D. Banabic,** J. Rojek, Experimental and numerical investigations on determination of strain localization in sheet forming, NUMISHEET N2018 Tokyo, IOP Conf. Series: Journal of Physics: Conf. Series 1063 (2018) 012060 (Keynote lecture)
24. **D. Banabic**, A. Kami, Applications of the Gurson's model in sheet metal forming, MATEC Web of Conferences 190, 01002 (2018), ICNFT 2018 Bremen, p. 1-7) Keynote paper) (https://doi.org/10.1051/matecconf/201819001002)

D. LUCRARI PUBLICATE IN VOLUMELE CONFERINTELOR INTERNATIONALE

1. Tapalaga I., Cherebetiu T., Hancu L., **Banabic D.,** Issledovanie povedenia necotorîh compozitnîh electroizolationîh materialov pri 77 K ispîtaniem na restiajenie, Seminarul de supraconductibilitate, Poiana Brasov, 3-6 sept.1988.
2. Tapalaga I., Berce P., **Banabic D.,** Moga I., Deep-drawing in cryogenic condition, In: Proc.3rd International Conference on Technology pf Plasticity. 1-6 July 1990, Kyoto.
3. **Banabic D.,** Dragan I., Achimas Gh., Methods of determining the Forming Limit Diagrams in vibrating conditions, The 5th International Conference on Metal-Forming, Gyor 15-21 June 1991, p.L 225-L 230.
4. **Banabic D.,** Tapalaga I., Moga I., Influence of punch speed on deep-drawing at cryogenic temperature, The 5th International Conference on Metal-Forming, Györ, 19-21 June 1991, p.L60-L68.
5. **Banabic D.,**Moga I., The optimum punch speed on deep-drawing at cryogenic temperature, The 4th International Conference on Numerical Methods in Industrial Forming Process- NUMIFORM'92 -, Sophia Antipolis, France, Sept.1992, p.403-408.
6. **Banabic D.**, Achimas Gh., Dorr I.R., The influence of pulsatory straining on FLD, Proc. 4th International Conf. on Technology of Plasticity, Beijing, Sept.1993, p.1923-1928.
7. **Banabic D.**, FLD in pulsatory straining, IDDRG Meeting, Linz, 14-15 June 1993.

8. **Banabic D.**, Theoretical and experimental research on the FLD in pulsatory straining, Proc. of the 4th International Symposium DAAAM, Brno, Sept. 1993, p.021-022.
9. **Banabic D.**, Experimental research on the sheets metal formability in pulsatory regime, Proc. of the 1st International Conference on Materials and Manufacturing Technologies "MATEHN'94", May 1994, Cluj-Napoca, p.
10. **Banabic D.**, Forming Limit Diagrams in pulsatory straining, In: 5th Int. Conf. on Metal Forming, Birmingham, Sept. 1994., p.551-556.
11. **Banabic D.**, Dorr I.R., Theoretical and experimental researches in formability on deep-drawing steel sheet, In: Proc.of the 18th Biennial Congress, Lisbon, May 1994, p.473-478.
12. **Banabic D.** Formability on sheets metal in pulsatory straining, In: Proc. of the 6th Int. Conf. "Formability '94", Ostrava, oct.1994.
13. **Banabic D.**, Effect of strain-rate pulsations on the sheet metal formability, In: Proc. of the 5th Int. DAAAM Symposium, oct.1994, Maribor, p.035-036.
14. **Banabic D.**, Comsa D.S., Criteria for the determination of the blank-holding force in deep-drawing proceses, In: Proc. of the 5th Int. DAAAM Symposium, oct.1994, Maribor, p.037-039.
15. **Banabic D.**, Modelling of the sheets metal formability in pulsatory straining, Proc. of the Int. Computer Science Conf. "microCAD'95", Miskolc, Febr.1995., p.32-36.
16. **Banabic D.**, Prediction of the forming limit diagrams using the new Hill's yield criterion for the orthotropic sheet metals, Proc. of the 4th Int. Metallurgical Symposium, Ostrava, May 1995.
17. **Banabic D.**, Mathematical modelling of the forming limit diagrams using the new Hill's yield criterion, Proc. of the 2th Int. Conf. Design to Manufacture in Modern Industry "DMI'95", Bled, May 1995.
18. **Banabic D.**, Tapalaga I., Dorr I.R., Modelling of the stretching process in pulsatory straining, IDDRG Meeting, Colmar, May 1995, p. WGIII.1-8.
19. **Banabic D.**, A new mathematical model of the Forming Limit Diagrams, Proc. of the 6 International Symposium DAAAM-95, Krakow, 1995, p. 19-20.
20. **Banabic D.**, Achimas Gh., Review of the criteria for determination of the blank holding force in deep drawing, Proc. of the 6 International Symposium DAAAM-95, Krakow, 1995, p. 21-22.
21. **Banabic D.**, Analysis of punch-stretching in vibratory regime, Proc. of the Int. Conf. METAL FORMING '96, Krakow, 1996, p. 201-204.
22. **Banabic D.**, A new model of the forming limit diagrams using the new Hill-1993 yield criterion, Proc. of the Int. Conf. on Modelling and Simulation in Metallurgical Engineering and Material Science MSMM'96, Beijing, 1996.
23. **Banabic D.**, Achimas Gh., Comsa D. S., Deep drawing by avoiding the flange thickening, Proc. of the Int. Conf. on Modelling and Simulation in Metallurgical Engineering and Material Science MSMM'96, Beijing, 1996.
24. **Banabic D.**, Forming limit diagrams predicted by using the new Hill's yield criterion, Proc. of the 3th Int. Conf. on Numerical Simulation of 3-D sheet forming processes NUMISHEET'96", Dearborn- Michigan, 1996, p.240-245.
25. **Banabic D.**, Modelling of the punch stretching process in a vibrating regime, Proc. of the 5th on Technology of Plasticity ICTP'96", Columbus- Ohio, 1996, p.839-842.
26. **Banabic D.**, Mathematical model of the Forming Limit Diagram using the new Hill's yield criterion, In: Advanced Sheet Metal Forming, Proc. of the 19th Biennial IDDRG Congress, Eger, 1996, p. 407-414.
27. **Banabic D.**, Brief review of the romanian researches concerning the sheet-metal forming, IDDRG Meeting Group II-Materials, Eger, 1996, p. WGII 4.1-4.10.
28. **Banabic D.** Stretchability of aluminium sheets in pulsatory straining, In: Proc. of Int. Conf. On Industrial Tools (ICIT'97), Maribor, 1997, p. 83-87.
29. **Banabic D.** Sheet-metal forming research in Romania, In: Proc. of the 6th Int. Symposium METAL'97, Ostrava, 1997, p254-262.

30. **Banabic D**. A simplified model of the hydraulic bulging, IDDRG Meeting Group I-Hydroforming of tube and sheet, Haugesund, 1997.
31. **Banabic D**. Effect of pulsatory straining on the limit strains of aluminium sheets, Proc. of the 17th Int. Conf. on Aerospace Materials Engineering, Paris, 1997, p.144-150.
32. **Banabic D**. Sheet metal predicted by using the new Hill's yield criterion, Proc. of the third Int. Conf. On Materials Processing Defects, Cachan, 1997, p.257-265.
33. **Banabic D**. Limit strains in the sheet metals by using the new Hill's yield criterion (1993), In: Proc. Of the Advances in Materials and Processing Technologies (AMPT'97), Guimaraes, Portugal, 1997, p. 344-349.
34. **Banabic D**. The influence of the yield locus shape on the limits strains, 6th Int. Conf. "Achievements in the Mechanical and Materials Engineering", Gliwice and Miskolc, 1997, p.235-240.
35. **Banabic D**., Müller W., Pöhlandt K. Experimental determination of yield loci for sheet metals, First Conf. ESAFORM '98, Sophia Antipolis, France, p. 179-182.
36. **Banabic D**., Müller W., Pöhlandt K. Experimental determination of yield locus for sheet metals, In: Proc. of the Int. Conf. MATECH'98, Cluj-Napoca, 1998, p. 319-325.
37. **Banabic D**., Müller W., Pöhlandt K. Determination of yield loci from cross tensile tests assuming various kinds of yield criteria, In: Proc of the IDDRG Biennial Congress, Bruxelles, 1998, p. 343-349.
38. Pohlandt K., **Banabic D.,** Anmerkung zu den drei Fliesskriterien nach Hill, In: 44^{th} Metalkunde-Kolloquium "Werkstoffe. Einsatz und Entwicklungstendenzen", Montanuniversitaet Leoben, Austria, 1998, p.1-17.
39. **Banabic D**., Comsa S.D., Balan T., Raulea L.V., Steps towards intelligent process design in metal forming, 9^{th} DAAAM Int. Symposium, Cluj-Napoca, 1998, p.025-027.
40. **Banabic D**., Müller W., Pöhlandt K. Some comments on the Hill's anisotropic yield criteria, In: Proc. of the 6^{nd} Nat. Conf. "Technology and Machine for Cold Forming", Galati, 1998, p.1-8.
41. **Banabic D**., Müller W., Pöhlandt K. Some comments on the yield criteria for anisotropic sheet metals, 7th Int. Conf. Achievements in the Mechanical and Materials Engineering", Gliwice, 1998, p.25-29.
42. **Banabic D**.,Balan T., Pohlandt K., Some comments on the Hosford-type yield criteria, Stuttgart, 1999, p.1-23.
43. **Banabic D**., Some comments on the new Hill's anisotropic yield criteria, Int. Conference in Industrial Tools, Maribor, 1999, p.79-85 (invited paper).
44. **Banabic D**., Müller W., Pöhlandt K., Anisotropic Yield Surfaces and Forming Limits of Sheet Metals, The Fourth Int. Conference and Workshop on Numerical Simulation of 3D Sheet Forming Processes "NUMISHEET'99", Besancon, 1999, p.419-424.
45. **Banabic D**., Balan T., Comsa S.D., Closed–form solution for bulging through elliptical dies, Int. Conf. on Sheet Metal "SHEMET'99", Erlangen, 1999, 623-628.
46. **Banabic D.,** Balan T., Pöhlandt K., Analitical and experimental investigation on anisotropic yield criteria, 6^{th} Int. Conf. on Technology of Plasticity "ICTP'99", Nuremberg, 1999, p. 1411-1416.
47. **Banabic D**., Balan T., Comsa D.S., Müller W., Pöhlandt K., A new criterion for anisotropic sheet metals, 8th Int. Conf. Achievements in the Mechanical and Materials Engineering", Gliwice, 1999, p.33-36 (invited paper).
48. Balan T., **Banabic D**., Comsa S.D., Numerical die design technique for the extrusion process, 8th Int. Conf. Achievements in the Mechanical and Materials Engineering", Gliwice, 1999, p.29-33.
49. **Banabic D.,** a.o., Experimental validation of a new anisotropic yield criterion, The 3^{th} ESAFORM Conf., Stuttgart, 2000, p. VI.39-VI.43

50. Zucko , Pöhlandt K., Lange K., **Banabic D.**, Effects of anisotropy parameters of axisymmetric bars and tubes on metal forming processes, The 3rd ESAFORM Conf., Stuttgart, 2000, p. IX.14-IX.17.

51. **Banabic D.,** Kuwabara T, Balan T., Experimental validation of some anisotropic yield criteria, The 7th Conference „TPR2000", Cluj Napoca, 2000, 109-116.

52. **Banabic D.,** a.o., Some comments on a new anisotropic yield criterion, The 7th Conference „TPR2000", Cluj Napoca, 2000, p. 93-100.

53. **Banabic D.,** Boudeau D., Gelin J.C., Prediction of sheet necking from two theoretical approach, The 7th Conference „TPR2000", Cluj Napoca, 2000, p. 101-108.

54. **Banabic D.**, Comsa D.S., Balan T.,A new yield criterion for orthotropic sheet metals under plane –stress conditions, The 7th Conference „TPR2000", Cluj Napoca, 2000, p.217-224.

55. **Banabic D.,** a.o., Proposal for a new anisotropic yield criterion, The IDDRG Congress, Ann Arbor, Michigan, 2000, p.229-233.

56. **Banabic D.,** Balan T., Comsa D., Yield criterion for orthotropic sheet metals, The 8th Int. Conf. Metal Forming 2000, Krakow, 2000.

57. **Banabic D.**, a.o., Comments on a new anisotropic yield criterion, The 2000 International Mechanical Engineering Congress and Exposition (IMECE 2000), Orlando-Florida, 2000.

58. **Banabic D.,** a.o., An anisotropic yield criterion for sheet metals, 9th Int. Conf. Achievements in the Mechanical and Materials Engineering", Sopot, 2000, p.203-208.

59. **Banabic D.**, Comsa D.S., Keller S., Wagner S., Siegert K., An yield criterion for orthotropic sheet metals, TMS Symposium: Innovations in processing and manufacturing of sheet materials (Ed. M. Demeri), New Orleans, Louisiana, 2001, p. 145-159.

60. **Banabic D.**, Comsa D.S., Boucher D., Wagner S., Siegert K., Anisotropic behaviour of AA3003-0 aluminium alloy, Conf. ESAFORM 2001, Liege, 2001, p.297-301

61. **Banabic D.**, Balan T., Comsa D., Validation of an yield criterion for sheet metals, Int. Conference in Industrial Tools (ICIT 2001), Maribor, 2001, (invited paper).

62. **Banabic, D.**, Achimas G., Wagner S., Siegert K., Description of the plastic behaviour of AA3103 aluminium alloy, MTeM Conference, Cluj Napoca, 2001, p. 15-19.

63. **Banabic, D.**, Achimas Gh., Cosovici G., Jurco P., Comsa. S.D., Implementation of an orthitropic yield criterion in a computer programme for the numerical simulation of sheet metal forming processes, MTeM Conference, Cluj Napoca, 2001, p. 11-15.

64. **Banabic, D.**, Comsa D.S., Wagner S., Siegert K., Simulation of the bulging test using a new orthotropic yield criterion, Hydroforming Conference, Stuttgart, 2001, p.500-512.

65. Comşa S.D., G. Cosovici, P. Jurco, **D. Banabic**, Simulation of the hydroforming process using a new orthotropic yield criterion, AMME 2001 Conf., Gliwice, 2001, p.105-112.

66. **D. Banabic**, D.S.Comsa, P. Jurco, G. Cosovici, An anisotropic yield criterion for sheet metals, AMME 2001 Conference, Gliwice, 2001 (invited paper), p.113-117.

67. **D. Banabic**, Theoretical models of the Forming Limit Diagrams, Proc. 5th Workshop "Simulation in der Umformtechnik. Instabilität in der Blechumformung", Stuttgart, 2002, p. 3.1-3.15.

68. K. Pöhlandt, **D. Banabic**, K. Lange,. Description of the yield loci using the equi-biaxial anisotropy coefficient, Proc. 5th Workshop "Simulation in der Umformtechnik. Instabilität in der Blechumformung", Stuttgart, 2002, p. 2.23-2.26.

69. **Banabic D.,** Wagner S., Anisotropic behaviour of aluminium alloy sheets, VIRFORM Conference, Amsterdam, 2002, p.1-6.

70. D.S. Comsa, **D. Banabic,** J.C. Gelin, S. Wagner, K. Siegert, Finite element simulation of the hydroforming process using a new yield criterion, ESAFORM Conference, Krakow, 2002, p.691-695.

71. K. Pöhlandt, **D. Banabic**, K. Lange, Equi-biaxial anisotropy coefficient used to

describe the plastic behavior of sheet metal, ESAFORM Conference, Krakow, 2002, p.723-727.

72. M.C. Butuc, A. Barata da Rocha, J.J Gracio, J. Duarte, P. Jurco, D. Comsa, **D. Banabic**, Influence of constitutive equations and strain-path change on the forming limit diagram for AA5182-T4 aluminum alloy, ESAFORM Conference, Krakow, 2002, p.715-719.

73. **D. Banabic**, O. Cazacu, F. Barlat, D.S. Comsa, S. Wagner, K. Siegert, Prediction of anisotropic plastic behavior of AA3103-0 aluminum alloy using two yield criteria, TPR2002 Conference, Iasi, 2002.

74. K. Pöhlandt, **D. Banabic**, K. Lange, Equi-biaxial anisotropy coefficient. A new concept to describe the yield surface, TPR2002 Conference, Iasi, 2002.

75. M.C. Butuc, A. Barata da Rocha, J.J. Gracio, J. Ferreira Duarte, G. Cosovici, L. Paraianu, P. Jurco, D.S. Comsa, **D. Banabic**, Prediction of forming limit diagrams for AA5XXX aluminium alloy using Barlat'96 and BBC yield criteria, TPR2002 Conference, Iasi, 2002.

76. Vulcan M., **Banabic D.**, Siegert K., Superplastische Umformung von Aluminium, Int. Conf. „New Developments in Sheet Metal Forming Technology", Stuttgart, 2002.

77. **D. Banabic**, O. Cazacu, F. Barlat, D.S. Comsa, S. Wagner, K. Siegert, Description of the anisotropic behaviour of AA3103-0 aluminum alloy using two recent yield criteria, EUROMECH Conference, Liege, 2002, p.265-272.

78. M.C. Butuc, A. Barata da Rocha, J.J. Gracio, J. Ferreira Duarte, P. Jurco, D.S. Comsa, **D. Banabic**, The performance of YLD96 and BBC2000 yield functions in forming limit prediction, Metal Forming 2002 Conference, Birmingham, 2002, p. 281-286.

79. D.S. Comsa, **D. Banabic**, J.C. Gelin, S. Wagner, K. Siegert, Simulation of the hydroforming process using an orthotropic yield criterion, The 4th International Conference and Workshop on Numerical Simulation of 3D Sheet Metal Forming Processes NUMISHEET 2002, Jeju, Korea, 2002, p.55-60.

80. F. Barlat, **D. Banabic**, O. Cazacu, Anisotropy in sheet metals, The 4th International Conference and Workshop on Numerical Simulation of 3D Sheet Metal Forming Processes NUMISHEET 2002, Jeju, Korea, 2002, p.515-524 (keynote paper) .

81. **D. Banabic**, D.S.Comsa, T. Kuwabara, E. Iizuka, T. Hira, S. Wagner, K. Siegert, Description of the plastic behaviour of sheet metals using a new orthotropic yield criterion, ICTP'02, Yokohama, 2002, p.1531-1536.

82. L. Paraianu, D.S. Comsa, P. Jurco, G. Cosovici, **D. Banabic**, Finite Element Calculation of Forming Limit Curves, AMME 2002 Conf., Gliwice, 2002, p.425-428.

83. G. Cosovici, **D. Banabic**, G. Achimas, Implementation of a rigid-plastic material model using a modern yield criterion in the ABAQUS/Standard finite-element code. Part 1: Theoretical aspects, AMME 2002 Conf., Gliwice, 2002, p.51-54.

84. G. Cosovici, **D. Banabic**, G. Achimas, Implementation of a rigid-plastic material model using a modern yield criterion in the ABAQUS/Standard finite-element code. Part 2: Numerical tests, AMME 2002 Conf., Gliwice, 2002, p.55-58.

85. K. Pöhlandt, **D. Banabic**, K. Lange, Determining Yield Loci of Sheet Metal by Uniaxial and Plane-Strain Experiments, ICIT 2003 Conference, Bled, 2003, p.165-175.

86. L. Paraianu, D.S. Comsa, G. Cosovici, P. Jurco, and **D. Banabic**, An improvement of the BBC2000 yield criterion, ESAFORM 2003 Conference, Salerno, 2003, p. 215-219.

87. G. Cosovici, D.S. Comsa, L. Paraianu, P. Jurco, and **D. Banabic**, Implementation of a rigid–plastic membrane model in the ABAQUS/Standard finite-element code, ESAFORM 2003 Conference, Salerno, 2003, p. 235-239.

88. K. Pöhlandt, **D. Banabic**, K. Lange, Determining Yield Loci of Sheet Metal from Uniaxial and Plane-Strain Deformation Data, ESAFORM 2003 Conference, Salerno, 2003, p. 223-227.

89. K. Siegert, S. Jäger, M. Vulcan, **D. Banabic**, An analytical approach of bulging of

magnesium sheet metal (Keynote paper), ESAFORM 2003 Conference, Salerno, 2003, p. 163-167.
90. K. Siegert, M. Vulcan, **D. Banabic**, The influence of the pulsating strain rates on the deformation behaviour of superplastic formed Al-alloy AA5083, ICSAM Conference, Oxford, 28-30 July 2003.
91. **D. Banabic**, S.D. Comsa, L. Paraianu, G. Cosovici, P. Jurco, Performances of the BBC2003 yield criterion when using data obtained from different mechanical tests, Int Conf. MTeM, Cluj Napoca, 2003, p.23-27.
92. **D. Banabic**, G. Cosovici, D.S. Comsa, S. Wagner, K. Siegert, Validation of the anisotropic yield criteria through bulge test, Int. Conf. on Hydroforming, Stuttgart, Oct. 2003, p. 481-499.
93. **D. Banabic**, S.D. Comsa, L. Paraianu, G. Cosovici, P. Jurco, Prediction of the yield loci for anisotropic materials using uniaxial and plane-strain tensile tests, Int. Conf. on Manufacturing Science and Education-MSE2003, Sibiu, 2003, p.11-15.
94. **D. Banabic,** Modern yield criteria for anisotropic materials, Proc. of the 7th Workshop "Simulation in der Umformtechnik", March 25th, 2004, ISD, Stuttgart, p. 3.1-3.10.
95. **D. Banabic**, D.S. Comsa, P.Jurco, S. Wagner, S. He, P. Van Houtte, Prediction of forming limit curves from two anisotropic constitutive models (Keynote paper), ESAFORM 2004 Conference, Trondheim, 2004, p. 455-459.
96. **Banabic D.,** Comsa S.D., Cosovici G., Wagner S., New Developments in Plastic Anisotropic Behaviour of Aluminium Sheet Metals, Int. Conf. „New Developments in Sheet Metal Forming Technology", Stuttgart, 2004, p. 429-442
97. **Banabic D.,** Comsa S.D., Cosovici G., Wagner S., Neuere Entwicklungen in der Beschreibung der plastischen Anisotropie von Aluminiumblechwerkstoffen, Internationale Konferenz „Neuere Entwicklungen in der Blechumformung", Stuttgart, 2004, p. 443-458.
98. G. Cosovici, D.S. Comsa, **D. Banabic**, S. Wagner, K. Siegert, Simulation of the hydroforming processes using a new orthotropic yield criterion, in: "Forming the future", Proc. of the IDDRG 2004 Conf., May 2004, Sindelfingen, p. 334-344 (ISBN 3-514-00708-X).
99. **D. Banabic**, D.S. Comsa, P. Jurco, S. Wagner, M. Vos, An Improvement of the Anisotropy and Formability Predictions of Aluminum Alloy Sheets, Proc. of the NUMIFORM 2004 Conf., Columbus, Ohio, 2004, Springer, p.760-765 (ISBN 0-7354-01888-8).
100. **D. Banabic,** Anisotropy and formability of AA5182-0 aluminium alloy sheets, Proc. CIRP 2004 Conf., Krakow, Aug. 2004, p. 219-222.
101. **D. Banabic**, Recent Achievements in Plastic Anisotropy, Proc. of the World Congress on Computational Mechanics-WCCM VI, Beijing, Sept. 2004, p. 217-223, (ISBN 7-302-09343-1).
102. **D. Banabic,** Recent Advances and Applications: Plastic Anisotropy of Aluminium Alloys, Proc. of the World Congress on Computational Mechanics-WCCM VI, Beijing, Sept. 2004, p. 3181-318, (ISBN 7-89494-9).
103. S. He, A. Van Bael, P. Van Houtte, **D. Banabic**, Prediction of formability for aluminium alloy sheets using physics-based material models, Proc. of the "Plasticity 2005" International Symposium, Hawaii, Jan. 2005.
104. A. Barata da Rocha, M. C. Butuc, J. J. Gracio, **D. Banabic**, Forming limit strains calculation for an aluminium alloy by applying advanced phenomenological yield criteria, Proc. of the "Plasticity 2005" International Symposium, Hawaii, Jan. 2005.
105. G. Cosovici, **D. Banabic,** A Deep Drawing Test Used to Evaluate the Performances of Different Yield Criteria, Proc. of the 8th ESAFORM Conference on Material Forming, Editor: D. Banabic, The Publishing House of the Romanian Academy, Bucharest, 2005, p.329-333.
106. L. Paraianu, **D. Banabic,** Calculation of Forming Limit Diagrams Using a Finite

Element Model, Proc. of the 8th ESAFORM Conference on Material Forming, Editor: D. Banabic, The Publishing House of the Romanian Academy, Bucharest, 2005, p.419-423.

107. P. Jurco, **D. Banabic,** A User-Frienldy Programme for Calculating Forming Limit Diagrams, Proc. of the 8th ESAFORM Conference on Material Forming, Editor: D. Banabic, The Publishing House of the Romanian Academy, Bucharest, 2005, p.423-427.

108. **D. Banabic**, H. Aretz, L. Paraianu, P. Jurco, M. Vos, Theoretical Models for the Determination of Forming Limit Diagrams, Proc. of the 8th ESAFORM Conference on Material Forming, Editor: D. Banabic, The Publishing House of the Romanian Academy, Bucharest, 2005, p.427-431.

109. **D. Banabic**, S. Li, A. Van Bael, P. Van Houtte, Description of the Anisotropic Yield Behaviour of Aluminium Alloy Sheets using Phenomenological and Texture Based Yield Criteria (keynote paper), Proc. of the 8th ESAFORM Conference on Material Forming, Editor: D. Banabic, The Publishing House of the Romanian Academy, Bucharest, 2005, p. 431-435.

110. Jurco P., **Banabic D., A** user-friendly programme for analyzing the anisotropy and formability of sheet metals, Proc. of the IDDRG 2005 Conference, Besancon, 2005, p. 12.1-12.8.

111. **Banabic D.,** Vulcan M., Bulge testing under constant and variable strain rates of superplastic aluminium alloys, CIRP 2005 Conference, Antalya, Turkey, p. 205-209.

112. **D. Banabic,** Numerical prediction of FLC using the M-K-Model combined with advanced material models, FLC 2006 Conference, Zurich, 2006, 37-42.

113. **D. Banabic**, J. Huetink, Determination of the yield locus by means of temperature measurement, 9th ESAFORM Conference, Glasgow, 2006, p.359-362.

114. L. Paraianu, D.S. Comsa, J.J. Gracio, **D. Banabic**, Influence of yield locus and strain-rate sensitivity on the Forming Limit Diagrams, 9th ESAFORM Conference, Glasgow, 2006, 343-347.

115. **D. Banabic,** Verbesserung die Genauigkeit der Grenzformaenderungsimulation durch die neues Materialmodelle, Internationale Conference „New Developments in Sheet Metal Forming", Stuttgart, 2006, p.389-402.

116. M. Vos, **D. Banabic,** P. Jurco, J. Brem, F. Barlat, Forming limit prediction using BBC 2003 yield criterion for aluminum automotive alloy, IDDRG Conference, Porto, 2006, p.51-58.

117. **D. Banabic,** Advanced Models for Plastic Anisotropy and their applications in the simulation of sheet metal forming processes, MATEHN 2006 Conference, Cluj Napoca, 2006, p. 25-26. (plenary lecture).

118. **D. Banabic,** L. Paraianu, P. Jurco, M. Vos, Anisotropy and forming limits prediction of aluminium alloys, MATEHN 2006 Conference, Cluj Napoca, 2006, p.142-143.

119. G. Cosovici, D. S Comşa, **D. Banabic,** Evaluation of the performances of the different yield criteria by using the deep drawing test, SISOM Conf., Bucuresti, 2006, p.458-464.

120. L. Paraianu, **D. Banabic,** Predictive accuracy of different yield criteria, SISOM Conf., Bucuresti, 2006, p.465-574.

121. **D. Banabic**, A method to predict the forming limit band, CIRP Meeting, Paris, 25 Ian. 2007.

122. **D. Banabic,** M. Vos, L. Paraianu, P. Jurco, Theoretical Prediction of the Forming Limit Band, 10th ESAFORM Conference, Zaragoza, 2007, p.368-373.

123. K. Pöhlandt, K. Lange, **D. Banabic**, J. Schöck, Consistent Parameters for Plastic Anisotropy of Sheet Metal (Part 1-Uniaxial and Biaxial Tests), 10th ESAFORM Conference, Zaragoza, 2007, p.374-379.

124. K. Pöhlandt, K. Lange, **D. Banabic**, J. Schöck, Consistent Parameters for Plastic Anisotropy of Sheet Metal (Part 2- Plane-strain and Compression Tests), 10th ESAFORM Conference, Zaragoza, 2007, p.380-385.

125. M. Vos, **D. Banabic**, The forming limit band – a new tool for increasing the robustness in the simulation of sheet metal forming processes, IDDRG 2007 International Conference, Győr, 2007, p. 165-177.
126. **D. Banabic**, M. Vos, Modelling of the Forming Limit Band –A new Method to Increase the Robustness in the Simulation of Sheet Metal Forming Processes, CIRP Conference, Dresden, 2007.
127. **D. Banabic**, D.S. Comsa, L. Paraianu, Improving the simulation of sheet metal forming processes using advanced yield criteria, Proc. of the Simulation of Manufacturing Processes and Material Forming, Caen, 2007, 6.1-6.10.
128. **D. Banabic**, D.S. Comsa, L. Paraianu., A method for the evaluation of the accuracy of anisotropic yield criteria, Proc. of the "Sheet Metal Forming-SMF 2007" Conference, Bombay, Dec. 2007, 14.1-14.12.
129. **D. Banabic**, Material models for sheet metal forming simulation, Proc. of the Symposium "Automotive Sheet Metal Forming", (Eds: R.K. Verma, D., Bhattachaejee), Tata McGraw-Hill, New Delhi, 2008, p. 42-48.
130. **D. Banabic**, Material Modeling for Sheet Metal Forming Simulation, CIRP Meeting, Paris, 24 Ian. 2008.
131. S. Soare, **D. Banabic**, A note on the MK computational model for predicting the forming limit strains, ESAFORM 2008 Conference, Lyon, April 2008.
132. M. O'Donnell, **D. Banabic**, A. G. Leacock, D. Brown, R. J. McMurray, The Effect of Pre-Strain and Inter-Stage Annealing on the Formability of a 2024 Aluminium Alloy, ESAFORM 2008 Conference, Lyon, April 2008.
133. M. O'Donnell, A. G. Leacock, **D. Banabic,** D. Brown, R. J. McMurray,The Effect of Pre-Strain and Solution Heat Treatment on the Formability of a 2024 Aluminium Alloy, ESAFORM 2008 Conference, Lyon, April 2008.
134. S. Soare, D. **Banabic**, About the mechanical data required to describe the anisotropy of thin sheets to correctly predict the earing of deep-drawn cups, ESAFORM 2008 Conference, Lyon, April 2008.
135. W. Hußnätter, **D. Banabic**, M. Merklein, M. Geiger, Characterization of yielding of magnesium alloy AZ31 with BBC2005, ICTP Conference, Gyongyu, Corea de Sud, Sept. 2008, 782-786.
136. **D. Banabic** et al., Influence of constitutive equations on the accuracy of prediction in sheet metal forming simulation, Numisheet 2008, September 1-5, 2008 – Interlaken, Switzerland, p. 37-42.
137. S. Soare, **D. Banabic**, On the effect of the normal pressure on the forming limit curves, Numisheet 2008, September 1-5, 2008 – Interlaken, Switzerland, p.199-204.
138. D.S. Comsa, **D. Banabic**, Plane-stress yield criterion for highly-anisotropic sheet metals, Numisheet 2008, September 1-5, 2008 – Interlaken, Switzerland, p.43-48.
139. Soare S., **Banabic D.,** Application of a polynomial yield function to the predictions of limit strains, Material Forming 2008, Cracovia, Sept. 2008, p.39-46.
140. L. Paraianu, **D. Banabic**, A new method for the evaluation of the yield criteria accuracy, 16th Conference Computer methods in materials technology, KOMPLASTECH2009, Krynica-Zdroj, Jan. 2009.
141. I. Bichiş, G. Dragoş, L. Paraianu, S. Comşa, **D. Banabic**, Theoretical and Experimental Determination of The FLCs for DC01 Steel Sheets, In the Proc. of the 4th International Conference on manufacturing science and education, MSE 2009, Sibiu, 2009, p.7-10.
142. G. Dragoş, **D. Banabic**, Variability of the mechanical parameters describing the plastic behaviour of the DC01 steel sheets, Proc. MTeM 2009, Cluj Napoca, p. 73-76.
143. G. Dragoş, **D. Banabic**, Formability of the DC01 steel sheets, Proc. MTeM 2009, Cluj Napoca, p.77-42.
144. D.S. Comsa, L. Paraianu, I. Bichis, **D. Banabic**, A new formulation of the MMFC to avoid the numerical instability, 4th Forming Technology Forum, Zurich, 2011, p.59-62

145. I. Bichis, L. Paraianu, D.S. Comsa, **D. Banabic,** Research on the shock heat treatment method used for improving the formability of aluminium alloys, International Conference on Manufacturing Science and Education- MSE 2011, Sibiu, p.3-6.

146. **Banabic D.,** Sester, M., The Influence of the Constitutive Equations on the Accuracy of Sheet Metal Forming Processes Simulation, DieMold 2011 Conference, Ankara, June 2011, p.281-284.

147. Capustiac, B. Hesse, **D. Banabic**, D. Schramm, Importance of Introducing Motion Cues in a Driving Simulator, International Conference on Applied Simulation and Modelling, 22-24 June, 2011, Crete, 278-283.

148. L. Lăzărescu, D.S. Comşa, I. Nicodim, I. Ciobanu, D. Banabic, Determination of equivalent stress- equivalent strain curve by hydeaulic bulge test through elliptical dies, Conference " *Research challenges for sustainable development*", Timişoara, March 19-23, 2012

149. L. Părăianu, D.S. Comşa, D. Banabic, Forming Limit Curves predicted by a new formulation of Hora's criterion (MMFC), Conference " *Research challenges for sustainable development*", Timişoara, March 19-23, 2012

150. L. Părăianu, S. Comsa, I. Bichiş, **D. Banabic**, Influence of the Mechanical Parameters upon the Forming Limit Curve, ICTP Conference, Aachen, Sept.2011, 744-749.

151. Paraianu L., Comsa D.S., **Banabic D.**, Forming limit band prediction based on modified maximum force criterion model, 5th Forming Technology Forum, Zurich, 2012.

152. Paraianu L., Comsa D.S., **Banabic D.**, Sensitivity analysis of the mechanical parameters of the sheet metals influencing the Forming Limit Curves, EngOpt 2012 – 3rd International Conference on Engineering Optimization, Rio de Janeiro, Brazil, 01 - 05 July 2012.

153. Lazarescu L., Comsa D.S., Nicodim I., Ciobanu I., **Banabic D.,** Hydraulic bulge test – an instrument for characterization of plastic behaviour of the sheet metals, The 3rd International Conference on New Forming Technology, Harbin, China, Aug. 2012

154. L. Părăianu, S. Comsa, **D. Banabic**, Influence of the Constitutive Equations on the FLC Prediction, AMSE 2012 Conf., Bangkok, 2012

155. V. Biró, **D. Banabic**, Call for standardization in material behavior assessment systems output formats, AMSE 2012 Conf., Bangkok, 2012

156. J. Gawad, D.S. Comsa, A. van Bael, **D. Banabic**, P. Eyckens, G. Samaye, D. Roose, P van Houtte, Calibration of Anisotropic Yield Criteria with Crystal Plasticity Data, 6^{th} International Conference "Multiscale Materials Modeling", Singapore, oct 2012

157. **Banabic D.,** From micro to macro - continuum scale modeling of advanced materials in virtual fabrication, National Research and Innovation Conference, Bucharest, 7-9 Nov. 2012.

158. L. Paraianu, D. S. Comsa, **D. Banabic**, Calibration of BBC2005 yield criteria using plane strain yielding results from a bulge test, IDDRG Conf., 2-5 June, 2013, Zurich,

159. **D. Banabic**, Trends in virtual manufacturing, Resources of Danubian region: the possibility of cooperation and utilization, Belgrade, June, 12-15, 2013, p.12.

160. L. Părăianu, D. S. Comsa, **D. Banabic**, The influence of the mechanical parameters on the Forming Limit Curves, International Conference and Exhibition on Design and Production of Machines and Dies/Molds DIEMOLD-2013, Antalya, June, 2013, p.7-12.

161. **D. Banabic,** Advanced anisotropic models used in the sheet metal forming simulation, 3rd International Sheet Metal Forming Conference (33rd SENAFOR), Porto Alegre, Brazil, 9-11 October, 2013 (Invited Lecture)

162. J. Gawad, **D. Banabic**, D.S. Comsa, M. Gologanu, A. Van Bael, P. Eyckens, P. Van Houtte, D. Roose, Evolving texture-informed anisotropic yield criterion for sheet forming, The 9th International Conference and Workshop on Numerical Simulation of 3D Sheet Metal Forming Processes NUMISHEET 2014, Melbourne, AIP Proc. 1567, 2013, p.350-355 (Keynote Paper).

163. **D. Banabic,** Continuum scale modelling in sheet metal forming, Innovative Manufacturing Engineering International Conference, May 29-30, 2014, Chisinau, Moldova (Invited Lecture)
164. **D. Banabic,** From micro to macro scale modelling in sheet metal forming, Colloquium of Metallurgy and Metallurgical Engineering, July 6-10, 2014, Tale, Slovakia, (Invited Lecture)
165. **D. Banabic,** Plastic Anisotropy and Forming Limits in Sheet Metal Forming, State of the art in material modelling for sheet metal forming Symposium, Ijmuiden, The Netherlands, Sept. 30th, 2014 (Invited Lecture)
166. **D. Banabic**, Advances in manufacturing, 7th International Conference on Advanced Manufacturing Technologies ICAMAT 2014, Bucuresti, Oct 2014 (Plenary Lecture).
167. L. Lazarescu, I. Nicodim, D. S. Comsa, **D. Banabic**, Effect of the blank-holding load on the drawing force in the deep-drawing process of cylindrical and square cups, 7th International Conference on Advanced Manufacturing Technologies ICAMAT 2014, Bucuresti, Oct 2014
168. M. Vrh, **D. Banabic,** Simple and robust user-independent time dependent evaluation of beginning of instability for the FLC determination, Workshop on Time-dependent Methods for the Evaluation of FLC, Zurich, 6-7 November 2014
169. **D. Banabic,** Trends in virtual manufacturing, ASTR 2014 Conference, Sibiu, 6-7 November 2014.
170. L. Lăzărescu, I. Nicodim, D. Banabic, Evaluation of drawing force and thickness distribution in the deep-drawing process with variable blank-holding, SHEMET 2015 Conf., Erlangen
171. L. Lazarescu, D. S. Comsa, **D. Banabic** Predictive performances of the Marciniak-Kuczynski model and Modified Maximum Force Criterion, ESAFORM 2015 Conf., Graz, 15-17 April 2015
172. **D. Banabic**, Modelling of anisotropic behaviour and forming limit of sheet metals, IDDRG 2015 Conference, 30 May-2 June 2015, Shanghai, (Keynote Paper).
173. **D. Banabic,** Advances in plastic anisotropy and forming limits in sheet metal forming, Proc. of the 10th ASME 2015 Manufacturing Science and Engineering Conference, Charlotte, NC, 2015 (Keynote Paper)
174. **D. Banabic**, D.S. Comsa, J. Gawad, P. Eyckens, D. Roose, A. Van Bael, P. Van Houtte, Scale bridging in sheet forming simulations: from crystal plasticity virtual experiments to evolving BBC2008 yield locus, 8th Forming Technology Forum-FTF 2015 "Advanced constitutive models in sheet metal forming", Zurich, 29-30 June, 2015.
175. **D. Banabic,** Advances in sheet metals forming, Modern Technologies in Manufacturing-MTeM 2015, 14-16 October 2015, Cluj Napoca, (Keynote Paper).
176. **D. Banabic,** Tendencies in sheet metal forming, The 10th International Conference INTER-ENG 2016, 6 - 7 October 2016, Tirgu Mures (Keynote Paper).
177. **D. Banabic,** Industry 4.0-Applications in metal forming, 8th International Conference on Manufacturing Science and Education – MSE 2017 , "Trends in New Industrial Revolution", June 7-9, 2017, Sibiu, Romania (Keynote paper)
178. **D. Banabic**, Applications of the multiscale modeling in sheet metal forming, IDDRG Conf., July 02-06, 2017, Munich (Keynote paper)
179. **D. Banabic**, The Fourth Industrial Revolution -Industry 4.0, The 41st American Romanian Academy Congress, July 19-22 July 2017 Craiova, ROMANIA (Keynote Paper).
180. L. Lazarescu, **D. Banabic**, Evaluation of deep drawing force under different friction conditions, Conf. Modern Technologies in Manufacturing-MTeM2017, 12-13 October, 2017 Cluj Napoca
181. **D. Banabic**, Contributions of Prof. Marciniak in modelling of strain localisation in sheet metal forming, Marciniak special session, CIRP 2018, Tokyo, 24th August 2018.

182. **D. Banabic**, A. Kami, Applications of the Gurson's model in sheet metal forming, ICNFT 2018 Bremen (Keynote Paper)
183. **D. Banabic**, Advances in assessing of sheet metal formability, IDDRG 2018 Waterloo (Keynote paper)
184. **D. Banabic**, Data flow in sheet metal forming process chains, MSE 2019, June 5-7, 2019, Sibiu (Keynote Paper)
185. **D. Banabic**, Romanian School of Plasticity.Professor Teodosiu's Contribution to Its Development, Congrès Français de Mécanique, 26 - 30 august 2019, Brest (Keynote paper)
186. **D. Banabic,** State-of-Art in Forming Limit Curves determination, The 1st ISIJ International Symposium on Advanced Material Modeling and Processing of Steel Sheets, Okayama, September 10th, 2019, (Invited paper)
187. **D. Banabic,** Data flow in manufacturing process chains, Institute of Metals Research, Shenyang, September 13th, 2019, (Invited paper)
188. **D.Banabic,** Influence of the material models on the accuracy of sheet metal forming simulation, Forming Technology Forum 2019, Munich, September, 19th-20th, 2019 (Keynote paper)
189. **Banabic D.,** 25 Years of Collaboration between CERTETA and IFU, Umformtechnik. Zukunft braucht Herkunft, Festkolloquim (Ed. M. Liewald), Stuttgart, 10 January, 2020
190.

E. LUCRARI PUBLICATE LA CONFERINTE NATIONALE

1. Deacu L.,Pop I.,**Banabic D.,**Ratiu C., Asupra dinamicii supapei proportionale direct actionate, A V-a Conferinte Nationale de masini-unelte, Bucuresti, 1984, pag.150-156.
2. Tapalaga I.,Iancau H.,**Banabic D.,** Contributii privind influenta temperaturilor criogenice asupra prelucrabilitatii prin deformare si aschiere a unor materiale metalice, Al-II-lea Simpozion National de Creativitate si Creatie, Busteni, sept. 1985.
3. **Banabic D.,**Cercetari asupra deformabilitatii tablelor din otel inoxidabil austenitic, Sesiunea de comunicari si referate, Aiud, iunie 1985.
4. Tapalaga I., **Banabic D.,** Venter A., Cercetari asupra posibilitatilor de asamblare criogenica, Sesiunea de comunicari si referate, Aiud iunie 1985.
5. Tapalaga I.,Achimas Gh.,**Banabic D.,**Hancu L.,Rosca C., Cercetari privind starea de deformare a materialului în procesul de hidroformare, Conferinta a V-a de utilaje si procese de prelucrare la rece, Timisoara, 20-21 nov.1986.
6. Tapalaga I.,Achimas Gh.,**Banabic D.,**Chertes M., Studiul deformabilitatii tablelor metalice prin încercari mecanice si pe baza curbelor de deformabilitate, Conferinta a V-a de procese si utilaje de prelucrare la rece, Timisoara, 20-21 nov.1986.
7. Tapalaga I.,Achimas Gh.,Iancau H.,**Banabic D.,**Hancu L., Cercetari privind starea de deformare a materialului în procesul de hidroformare a tuburilor gofrate, Sesiunea de comunicari, Tehnologii si echipamente noi în constructia de masini, Brasov, 7-8 nov.1986, p.25-28.
8. **Banabic D.,** Tapalaga I.,Achimas Gh.,Iancau H.,Molnar G., Dezvoltarea cercetarilor experimentale asupra CLD,(partea I: Definire si influente asupra CLD).In: Comunicarile primei Conferinte de tehnologii si utilaje pentru prelucrarea metalelor prin deformare plastica la rece, Sibiu, 1987, pag. 117-122.
9. **Banabic D.,** Tapalaga I.,Achimas Gh.,Iancau H.,Molnar G., Dezvoltarea cercetarilor experimentale asupra CLD,(partea II: Metode, mijloace si criterii de definire a CLD), In: Comunicarile primei Conferinte de tehnologii si utilaje pentru prelucrarea metalelor prin deformare plastica la rece, Sibiu, 1987, pag.123-129.
10. **Banabic D.,** Tapalaga I.,Achimas Gh.,Iancau H., Dezvoltarea cercetarilor asupra fenomenului de ondulare a flansei si a presiunii de retinere la ambutisare.In:

Comunicarile primei Conferinte de tehnologii si utilaje pentru prelucrarea metalelor prin deformare plastica la rece, Sibiu, 1987, pag.130-136.

11. Iancau H., Tapalaga I.,**Banabic D.**,Cherebentiu T.,Cercetari privind influenta mediului criogenic asupra încercarii la încovoiere prin soc a materialelor metalice. In: Comunicarile primei Conferinte de T.U.P.M.D.P.R., Sibiu, 1987, pag.179-185.
12. **Banabic D.**, Tapalaga I.,Achimas Gh., Determinarea deformabilitatii tablelor metalice pe baza curbelor limita, Sesiunea de comunicari Aiud, iunie 1988.
13. **Banabic D.**, Tapalaga I.,Achimas Gh., Determinarea unor indici de deformabilitate pentru table din otel inoxidabil feritic, Sesiunea de comunicari Aiud, iunie 1988.
14. **Banabic D.**, Tapalaga I.,Comsa D.S., Contributii privind determinarea starii de eforturi în flansa piesei ambutisate, In : Conferinta de matematica aplicata si mecanica, Cluj-Napoca, oct.1988, pag.527-533.
15. **Banabic D.**, Tapalaga I.,Comsa D.S., Contributii privind determinarea teoretica a presiunii de retinere a flansei pieselor ambutisate, Conferinaa a VI-a de Utilaje si procese de prelucrare la rece , Timisoara, 6-8 mai 1989, pag.213-218.
16. Achimas Gh.,**Banabic D.**.,Consideratii privind deformarea metalelor cu viteza constanta, prin utilizarea masinilor de încercat de tip camplastometru, Conferinta a VI-a de Utilaje si procese de prelucrare la rece , Timisoara, 6-8 mai 1989, pag.223-228.
17. **Banabic D.**, Tapalaga I., Comsa S., Determinarea teoretica a fortelor si a starii de eforturi la ambutisarea cu evitarea îngrosarii flansei (Partea I-a. Formularea modelului matematic), Conferinta Nationala de tehnologii si utilaje pentru prelucrarea materialelor prin deformare plastica la rece, Cluj-Napoca, 20-21 oct.1989 pag.99-102.
18. **Banabic D.**, Tapalaga I., Comsa S., Determinarea teoretica a fortelor si a starii de eforturi la ambutisarea cu evitarea îngrosarii flansei (Partea II-a. Rezolvarea modelului matematic), Conferinta Nationala de tehnologii si utilaje pentru prelucrarea materialelor prin deformare plastica la rece, Cluj-Napoca, 20-21 oct.1989, pag.103-198.
19. **Banabic D.**, Tapalaga I., Comsa S., Optimizarea formei de variatie a fortei de retinere la ambutisare utilizînd criteriu energetic (Partea I-a. Formularea modelului matematic), Conferinta Nationala de tehnologii si utilaje pentru prelucrarea materialelor prin deformare plastica la rece, Cluj-Napoca, 20-21 oct.1989, pag.109-115.
20. **Banabic D.**, Tapalaga I., Comsa S., Optimizarea formei de variatie a fortei de retinere la ambutisare utilizînd criteriu energetic (Partea II-a. Rezolvarea modelului matematic), Conferinta Nationala de tehnologii si utilaje pentru prelucrarea materialelor prin deformare plastica la rece, Cluj-Napoca, 20-21 oct.1989, pag.115-121.
21. Dragan I.,**Banabic D.**,Achimas Gh.,Determinarea curbelor limita de formare în regim vibrator, Conferinta Nationala de tehnologii si utilaje pentru prelucrarea materialelor prin deformare plastica la rece, Cluj-Napoca, 20-21 oct.1989, pag.141-146.
22. Achimas Gh.,Canta T.,**Banabic D.**, Grozav S., Consideratii privind proiectarea preselor pentru deformare orbitala cu actionare mecanica si hidraulica, Conferinta Nationala de tehnologii si utilaje pentru prelucrarea materialelor prin deformare plastica la rece, Cluj-Napoca, 20-21 oct.1989, pag.107-112.
23. Achimas Gh.,**Banabic D.**,Grozav S.,Giurgiu C., Masina pentru încercat materiale la compresiune de tip camplastrometru, Conferinta Nationala de tehnologii si utilaje pentru prelucrarea materialelor prin deformare plastica la rece, Cluj-Napoca, 20-21 oct.1989, pag.115-118.
24. **Banabic D.**, Tapalaga I.,Moga I.,Optimizarea vitezei poansonului la ambutisare criogenica, Conferinta Nationala T.U.P.R., Timisoara, mai 1991., pag.21-29.
25. Achimas Gh.,Canta T.,**Banabic D.**,Consideratii privind proiectarea masinilor de nituit orbitale, Conferinta Nationala T.U.P.R.,Timisoara, Mai 1991., pag.187-192.

26. Marciniak Z.,**Banabic D.**,Efectul vibratiilor asupra curbelor limita de deformare, Lucrarile sesiunii de comunicari stiintifice MTM'91,Cugir, Sept 1991, p.110-121.
27. **Banabic D.**, Dorr I.R., Modelarea CLD în regim de solicitare pulsator, In: Lucrarile Conferintei Nationale TUPMDPR (vol.II), Bucuresti, 1993, p.195-200.
28. Iancau H., **Banabic D.**, Vacar O., Contributii la studiul ambutisarii cu retinere variabila, Lucrarile celei de-a IV-a Conf. Nat. TUPDPR, Bucuresti, 28-29 Mai 1993, Vol. I, pag.II/64-II/69.
29. **Banabic D.**, Tapalaga I., Dorr I.R., Modelarea procesului de ambutisare prin întindere pe poanson în regim vibrator. Formularea modelului matematic, A 7-a Conf. Int. de Inginerie Manageriala si Tehnologica "TEHNO'95", Iunie 1995, Timisoara.
30. **Banabic D.**, Tapalaga I., Dorr I.R., Modelarea procesului de ambutisare prin întindere pe poanson în regim vibrator. Rezolvarea modelului si prezentarea rezultatelor, A 7-a Conf. Int. de Inginerie Manageriala si Tehnologica "TEHNO'95", Iunie 1995, Timisoara.
31. **Banabic D.**, Noi contributii la modelarea procesului de ambutisare prin întindere pe poanson. Formularea modelului matematic, A XIX-a Conferinta de Mecanica Solidelor, Iunie 1995, Târgoviste.
32. **Banabic D.**, Noi contributii la modelarea procesului de ambutisare prin întindere pe poanson în regim vibrator. Rezolvarea modelului si prezentarea rezultatelor, A XIX-a Conferinta de Mecanica Solidelor, Iunie 1995, Târgoviste.
33. **Banabic D.**, Modelarea matematica a curbelor limita de deformare prin utilizarea criteriului de plasticitate a lui Hill, A XIX-a Conferinta de Mecanica Solidelor, Iunie 1995, Târgoviste.
34. **D. Banabic**, Modelarea comportării materialelor în contextul fabricaţiei virtuale, SIMPOZION Actualitati si Perspective in Stiintele Tehnice, Zilele Academice Clujene, 27 Iunie 2006.
35. **D. Banabic,** Fabricaţia virtuala. Realizari si tendinte, Intilnirea anuala Clubului Humboldt Transilvania, Cluj Napoca, 15 Dec. 2006.
36. L. Paraianu, D.S. Comsa, **D. Banabic**, Accuracy estimation of anisotropic yield criteria, Proc. of the Conference “Excellence in research”, Brasov, 24-26 Oct. 2007.
37. **D. Banabic**, Modelarea comportarii materialelor in fabricatia virtuala, Conferinta “Zilele Academice ale ASTR-10 ani de la infiintare”, Bucuresti, 28-30 nov. 2007.
38. **D. Banabic,** Directii moderne de cercetare in ingineria productiei: fabricatia virtuala, Academia Romana, Bucuresti, 6 Feb. 2008.
39. **D. Banabic**, Cercetarea aplicata in domeniul ingineriei mecanice in Romania, Workshop-ul “Pentru excelenţă în ştiinţa românească”, Centrul UNESCO, Bucuresti, 26 Martie 2008
40. **D. Banabic,** D.S. Comsa, L. Paraianu, Contribution of the CERTETA research centre in sheet metal forming simulation, Excellence research- A way to innovation-Conference, (Eds: Vasiliu N., Lanyi S.), Brasov, 2008, p.163.1-163.4.
41. **D. Banabic,** Tendinţe pe plan mondial privind cercetarea în domeniul tehnologiilor de fabricaţie, Conferinta “Zilele Academice ale ASTR”, Cluj Napoca, 12 Nov. 2008, p.55-60.
42. **D. Banabic,** Vizibilitatea internaţională a cercetărilor româneşti în domeniul tehnologiilor de fabricaţie, Conferinta “Zilele Academice ale ASTR”, Cluj Napoca, 12 Nov. 2008, p.61-66.
43. **Banabic D.,** The doctoral studies in Romania: a critical analysis, Proc. of the ASTR Conference, Iassy, 2009, p.223-229.
44. **Banabic D**, Biro V., Virtual process chain in metal forming assisted by web based platforms, Proc of the ASTR Conference, Craiova, 28-29 Sept. 2010, p.395-400.
45. **Banabic D**, Hints Reka, Vanca M., Tendencies in virtual manufacturing, Proc of the ASTR Conference, Craiova, 28-29 Sept. 2010, p.401-406.
46. L. Părăianu, S. Comşa, **D. Banabic**, Forming Limit Curves Predicted by a New Formulation of Hora’s Criterion (MMFC), Seminar “Research Challenges for

Sustainable Development", Timişoara, 19-23 martie 2012

47. **Banabic D.**, Modelarea continua - de la micro la macro scara - a materialelor avansate in fabricatia virtuala, Conferinta Nationala a Cercetarii si Inovarii-CNCI 2012, Bucuresti, 7-9 Nov. 2012.
48. **Banabic D.**, Tendinte in tehnologiile de prelucrare a materialelor, Zilele Academice Iesene, A XXV-a Sesiune de comunicari stiintifice a Institutului de Chimie Macromoleculara Petru Poni, Iasi, 24-26 Sept. 2015 (Lucrare invitata).
49. Ionita D., Cristea M., Gaina C., **Banabic D.**, Comportamentul viscoelastic al unor retele poliuretanice cu reticulari fizice si chimice, Zilele Academice Iesene, A XXV-a Sesiune de comunicari stiintifice a Institutului de Chimie Macromoleculara Petru Poni, Iasi, 24-26 Sept. 2015.
50. **Banabic D.**, Digitizarea fabricaţiei: a patra revoluţie industrială, Proc of the ASTR Conference, Tirgu Mures, 6-7 Oct. 2016
51. **D. Banabic**, Industria şi universităţile tehnice româneşti în faţa sfidărilor mondiale, Conf. Educaţia Şi Cercetarea Românească, 23 martie 2017, Bucureşti
52. V. Axinciuc, **D. Banabic**, Evoluţia corpului tehnic din România din 1864 pâna in present, Conferinta Zilele Academiei de Ştiinţe Tehnice din România, 6-7 Octombrie 2017, Constanta

F BREVETE DE INVENTII

1. **Banabic D.**, Deacu L., Pop I., ***Electromagnet proportional***, Brevet de inventie, Nr.86601/26.03.1984.

G ALTE PUBLICATII

1. Dannenmann, E., **Banabic D.**, Hauesserman E., ***Forming limit curves. Experimental and theoretical determination,*** Twelwe-monthly progress report of the BRITE-EURAM Project "**Forming of new metallic materials**", Stuttgart, 1997.
2. Dannenmann, E., **Banabic D.**, Hauesserman E., ***Forming limit curves. Experimental and theoretical determination,*** Half-time report of the BRITE-EURAM Project "**Forming of new metallic materials**", Stuttgart, 1998.
3. **Banabic D.,** ***Formability assesment. Determination of the yiled loci and forming limit diagrams,*** Report D6, Twelwe-monthly progress report of the BRITE-EURAM Project "**VIRFORM**", Stuttgart, 2001.
4. **Banabic, D.** ***Test of currents FEM models***, Report D7, Twelwe-monthly progress report of the BRITE-EURAM Project "**VIRFORM**", Stuttgart, 2001.
5. **Banabic, D.** ***Deep drawing tests using simple geometry and comparison to numerical simulations,*** Report D10, Twelwe-monthly progress report of the BRITE-EURAM Project "**VIRFORM**", Stuttgart, 2001.
6. **Banabic D.** ***Deep drawing tests for complex forming geometry and comparison to numerical simulations***, Report D20, 24-monthly progress report of the BRITE-EURAM Project "**VIRFORM**", Stuttgart, 2002.
7. **Banabic D.** ***Bulge test simulation***, Report D15, 30-monthly progress report of the BRITE-EURAM Project "**VIRFORM**", Stuttgart, 2003.
8. **Banabic D.** ***Incorporation of new material models into numerical simulation code for bulging test and comparison to experiments***, Report D21, 42-monthly progress report of the BRITE-EURAM Project "**VIRFORM**", Stuttgart, 2003.
9. **Banabic D.**, ***Complex parts, strain analysis, report on results including simulation results with state of art models and advanced models***, Report D30, 48-monthly progress report of the BRITE-EURAM Project "**VIRFORM**", Stuttgart, 2004.
10. Asboell, K., Furu T., **Banabic D. a.l.** , ***VIRFORM - Final Technical Report***, Final report of the BRITE-EURAM Project "**VIRFORM**", Trondheim, 2004.

11. **Banabic, D.,** ***Sheet metal formability for special metal forming processes (superplastic forming and hydroforming at very high pressure),*** Final report of the Av Humboldt Project, Stuttgart, 2008.
12. Hora P., **Banabic D.,** ***Improvement of performances of formability models for sheet metals using new constitutive laws,*** Final report of the SCOPES Project, Swiss National Foundation, Zurich, 2008.
13. **Banabic D., Evoluţia tehnicii şi tehnologiilor de la prima la a patra revoluţie industrială şi impactul lor social**, Discurs de recepţie în Academia Română, 26 septembrie 2018.

MEMORIU DE ACTIVITATE

Candidatul a fost implicat într-o foarte intensă activitate de cercetare naţională şi internaţională, asa cum rezultă din lista proiectelor de cercetare pe care le-a coordonat în calitate de director de proiect sau în care a fost implicat ca cercetător. Candidatul a coordonat peste 25 proiecte de cercetare naţionale şi a fost implicat în 12 proiecte de cercetare internaţională (în calitate de cercetător invitat la universităţi din Franţa şi Germania). Această activitate a condus la obţinerea unor rezultate semnificative cu un puternic impact atât în comunitatea ştiinţifică cât şi industrială pe plan mondial. Principalele contribuţii ştiintifice aduse în domeniul în care lucrează şi recunoscute pe plan mondial sunt prezentate sintetic mai jos. Această recunoaştere rezultă atât din citările lucrărilor autorului (a se vedea lista de citări) cât şi din referinţele de la cercetători de prestigiu de la universităţi sau din industrie.

LISTA PROIECTELOR DE CERCETARE COORDONATE DE CANDIDAT

(ULTIMII 15 ANI)

PROIECTE INTERNE

1. 2006-2008 Cresterea performantelor simularii proceselor de deformare plastica in fabricatia virtuala prin utilizarea de modele constitutive noi, Programul Cercetare de Excelenta CEEX (Proiect de cercetare în sprijinul programelor post-doctorale)

2. 2006-2008 Platforma integrata pentru simularea proceselor de deformare in fabricatia virtual-VIRFAB, Programul Cercetare de Excelenta CEEX (Proiecte de cercetare complexe, M1)

3. 2007-2008 Modelarea stohastica a curbelor limita de deformare, un nou instrument in scopul cresterii robustetii simularii proceselor de deformare plastica a tablelor metalice, Contract CNCSIS-A.

4. 2007-2010 Modelarea curbelor limita de deformare, un nou instrument al fabricatiei virtuale in procesele de deformare a tablelor metalice, Programul PN II-IDEI.

5. 2008-2010 Modele avansate pentru descrierea anizotropiei si deformabilitatii tablelor metalice, PN II Resurse Umane, Proeict de Cercetare pentru Simulareau Revenirii in Tara (RP), Programul PN II-Resurse Umane

6. 2010-2013 Modelarea continua - de la micro la macro scara - a materialelor avansate in fabricatia virtuala, Proiect complex de cercetare exploratorie, Programul PN II-IDEI.

PROIECTE EXTERNE

1. 2004- 2008 Virtual Intelligent Forging, Excellence Network, Financed by European Community, Contract no. NMP2-CT-2004-507331.

2. 2005- 2008 Sheet metal formability for special metal forming processes (superplastic forming and hydroforming at very high pressure). Joint research project between Institute for Metal Forming Technology, Stuttgart University and CERTETA, Financed by Humboldt Foundation, Germany, Project No.: V-Fokoop-RUM/1036802, 2004

3. 2005- 2008 Improvement of performances of formability models for sheet metals using new constitutive laws. Joint research project between Institute for Virtual Fabrication, ETH Zurich and CERTETA, Financed by Swiss National Science Foundation, Switzerland, Project No.: IB7320-110974/1, 2005

4. 2005-2008 3D extension of the BBC2005 yield criterion, Financed by AutoForm Engineering GmbH, Switzerland.

5. 2009-2013 VFF Holistic, extensible, scalable and standard Virtual Factory Framework, Collaborative Project FP7 Program- Large-scale integrating project, NMP-2008-3.4-1.

6. 2012-2015 K2 Mobility – Sustainable Vehicle Technologies, Project with Virtual Vehicle GmbH Graz, Austria

PRINCIPALELE CONTRIBUTII IN DOMENIUL DE SPECIALITATE

1. Punerea in evidenta atit experimental cit si teoretic a solicitarii pulsatorii asupra curbelor limita de deformare

2. Utilizarea pentru prima data a criteriului de plasticitate a lui Hill din 1993 in modelarea unor procese de deformare a tablelor

3. Verificarea experimentala a criteriului Hill din 1993

4. Introducerea (in colaborare cu Prof. Pöhlandt si Prof. Lange de la Universitatea din Stuttgart, Germania) a conceptului de coeficient de anizotropie biaxiala.

5. Utilizarea coeficientului de anizotropie biaxiala in determinarea suprafetelor de curgere
6. Elaborarea unor modele analitice pentru umflarea hidrostatica
7. Introducerea unui criteriu de plasticitate (BBC2000) pentru medii ortotrope
8. Dezvoltarea criteriului BBC2000 in forma BBC2005 si BBC 2008
9. Elaborarea programului comercial de calcul al curbelor limita de deformare FORM-CERT
10. Elaborarea primului model teoretic al Benzilor Limita de Deformare
11. Analiza influentei presiunii hidrostatice asupra Curbelor Limita de Deformare
12. Implementarea criteriului BBC2005 in programul comercial de Element Finit AUTOFORM, utilizat de peste 95% din producatorii de autovehicole de pe plan mondial (in colaborare cu firma AUTOFORM, Zurich, Elvetia)
13. Colaborarea cu Institutul de Fabricatie Virtuala de la ETH Zurich pentru dezvoltarea modelului Hora de predictie a CLD
14. Colaborarea cu Catholic University of Leuven, Belgia, pentru cuplarea unui model de material bazat pe textura (Alamel) cu cel fenomenologic (BBC 2008), dezvoltat de autor.
15. Colaborarea cu firma RENAULT pentru implementarea criteriului BBC2005 in programele de simulare pentru procesele de deformarea ale tablelor utilizate de firma
16. Colaborarea cu firma VIRTUAL VEHICLE din Graz pentru dezvoltarea de modele avansate de predictie a Curbelor Limita de Deformare
17. Colaborarea la realizarea unui curs interactiv pe internet «ALUMATTER» (redactarea capitolului de Plasticitate si Anizotropie)
18. Contributia cu două capitole la prima enciclopedie de Ingineria Productiei editată de Springer in anul 2014: Encyclopaedia of Production Engineering.
19. Traducerea in limba chineză de către editura Science Press Beijing a Academiei de Stiinte din China a cărtii « Sheet Metal Forming Processes » (Springer, 2010), aceasta fiind prima carte de inginerie a unui autor roman tradusă in limba chineză.

UNIVERSITATEA LUCIAN BLAGA DIN SIBIU

Ministerul Educației
Universitatea "Lucian Blaga" din Sibiu
Facultatea de Inginerie

Nr. 493/28.06.2021

EXTRAS DIN PROCESUL-VERBAL

AL ȘEDINȚEI CONSILIULUI FACULTĂȚII DE INGINERIE CU EXERCITAREA VOTULUI PRIN MIJLOACE ELECTRONICE din data de 28.06.2021

Ordinea de zi este următoarea:

1. Avizarea propunerii de decernare a titlului de Dr.h.c. a Universității "Lucian Blaga" din Sibiu domnului acad. Dorel BANABIC;
2. Avizarea modificărilor planurilor de învățământ în urma vizitei de evaluare periodică ARACIS, pentru programul de studii universitare de licență *Tehnologia Tricotajelor și Confecțiilor.*

....

Din totalul de 32 de votanți, au transmis votul electronic 26 de membri.

Se aprobă cu 26 de voturi pentru, Ordinea de zi pentru prezentul vot electronic conținut în formularul de vot.

Punctul 1: Aprobă, cu 26 voturi pentru avizarea propunerii de decernare a titlului de Dr.h.c. a Universității "Lucian Blaga" din Sibiu domnului acad. Dorel BANABIC;

Punctul 2: Aprobă, cu 26 voturi pentru avizarea modificărilor planurilor de învățământ în urma vizitei de evaluare periodică ARACIS, pentru programul de studii universitare de licență *Tehnologia Tricotajelor și Confecțiilor.*

Pentru conformitate,

Decan,

Prof.univ.dr ing. Sever-Gabriel RACZ

Întocmit,

Secretar șef facultate,

Maria-Delia MIHALACHE

MINISTERUL EDUCAȚIEI · UNIVERSITATEA "LUCIAN BLAGA" · FACULTATEA DE INGINERIE

Str. Emil Cioran Nr. 4
550025, Sibiu, România
inginerie.ulbsibiu.ro

Tel.: +40 269 21.79.28
Fax: +40 269 21.27.16
E-mail: inginerie@ulbsibiu.ro