

CIOCOIU ROBERT – C T LIN,
Universitatea Politehnica din Bucure ti,
Facultatea Știința și Ingineria Materialelor,
Departamentul Știința Materialelor Metalice, Metalurgie Fizică

Simbolizarea lucr rilor elaborate

Lista lucr rilor relevante pentru realiz rile profesionale:

1. Schwartz, M; *Ciocoiu, R*; Gheorghe, D; Ciuca, I, Failures of AISI H21 die in copper hot extrusion, MATERIALS AT HIGH TEMPERATURES, Volume: 31, Issue: 2, Pages: 95-101, DOI: 10.1179/1878641313Y.0000000001, WOS:000338929800001
2. Miculescu, F; Maidaniuc, A; Miculescu, M; Batalu, ND; *Ciocoiu, RC*; Voicu, SI; Stan, GE; Thakur, VK, Synthesis and Characterization of Jellified Composites from Bovine Bone-Derived Hydroxyapatite and Starch as Precursors for Robocasting, ACS OMEGA, Volume: 3, Issue: 1, Pages: 1338-1349, DOI: 10.1021/acsomega.7b01855, WOS:000427933200143
3. Pantea, M; Antoniac, I; Trante, O; *Ciocoiu, R*; Fischer, CA; Traistaru, T, Correlations between connector geometry and strength of zirconia-based fixed partial dentures, MATERIALS CHEMISTRY AND PHYSICS, Volume: 222, Pages: 96-109, DOI: 10.1016/j.matchemphys.2018.09.063, WOS:000450379900012
4. Gheorghe, D ; Schwartz, M; Ciuca, I; *Ciocoiu, R*, A Comparative Microstructure Evolution of AISI H21 and Inconel 718 in Cyclic Heating, MATERIALE PLASTICE, Volume: 55, Issue: 3, Pages: 454-459, Published: SEP 2018, WOS:000452711500043, ISI Thomson Reuters Web of Science – Clarivate Analytics
5. A. C. Mocanu, G. E. Stan, A. Maidaniuc, M. Miculescu, I. V. Antoniac, *R. C. Ciocoiu*, S. I. Voicu, V. Mitran, A. Cimpean, F. Miculescu, Naturally – Derived Biphasic Calcium Phosphates through Increased Phosphorus – Based Reagent Amounts for Biomedical Applications, Materials 2019, 12; doi: 10.3390/ma12030381

I. TEZA DE DOCTORAT

T1. „CONTRIBU II PRIVIND PROIECTAREA I CARACTERIZAREA UNOR MATERIALE COMPOZITE PENTRU APLICA II MEDICALE”

II. C RȚI PUBLICATE

Ca - C r i / cursuri (manuale) pentru uzul studen ilor, publicate în edituri recunoscute.

Cb - C r i de specialitate publicate în edituri recunoscute (autor, coautor, editor).

Ce - C r i publicate în alte edituri, cu ISBN

Cb1. F. Miculescu, A. C. Mocanu, A. Maidaniuc, C. A. Dascalu, M. Miculescu, S. I. Voicu, **R. C. Ciocoiu**, Biomimetic calcium phosphates derived from marine and land bioresources, in "Hydroxyapatite - Advances in Composite Nanomaterials, Biomedical Applications and Its Technological Facets", book edited by Jagannathan Thirumalai, ISBN 978-953-51-3805-1, Print ISBN 978-953-51-3804-4, Published: February 14, 2018, 89-108, 19pg – capitol de carte

III. ALTE MATERIALE PUBLICATE

I - Culegeri și îndrumare publicate (separate în edituri cu ISBN și în tipografiile locale/de instituții sau de uz intern).

D - Alte lucrări publicate: capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc.

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IV. ARTICOLE/STUDII IN EXTENSO PUBLICATE

Ris - Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate în alte Baze de Date Internaționale - BDI specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță). *Se menționează la fiecare lucrare includerea în Baza ISI [ultimul Factor Impact, ISSN] și/sau denumirea altei (altor) BDI.*

Ris. 1

Correlations between connector geometry and strength of zirconia-based fixed partial dentures
By: Pantea, M; Antoniac, I; Trante, O; **Ciocoiu, R**; Fischer, CA; Traistaru, T;
MATERIALS CHEMISTRY AND PHYSICS
Volume: 222
Pages: 96-109
DOI: 10.1016/j.matchemphys.2018.09.063
Published: JAN 15 2019
Document Type: Article
Accession Number: WOS:000450379900012, ISI Thomson Reuters Web of Science – Clarivate Analytics
ISSN: 0254-0584
eISSN: 1879-3312
IF 2017: 2.21

Reprint Address: Ciocoiu, R (reprint author)

Ris. 2

A Comparative Microstructure Evolution of AISI H21 and Inconel 718 in Cyclic Heating
By: Gheorghe, D; Schwartz, M; Ciuca, I; **Ciocoiu, R**
MATERIALE PLASTICE
Volume: 55
Issue: 3
Pages: 454-459
Published: SEP 2018
Document Type: Article

Accession Number: WOS:000452711500043, ISI Thomson Reuters Web of Science – Clarivate Analytics

ISSN: 0025-5289

IF 2017: 1,248

Reprint Address: Ciocoiu, R (reprint author)

Ris. 3

Implementation of Holographic Research in Periodontal Disease

By:Manole, M; Burde, AV; Milea, C; Neculescu, A; **Ciocoiu, R**; Trante, O; Sinescu, C; Mohan, A; Dudea, D; Ionel, DC; Baci, S;

REVISTA DE CHIMIE

Volume: 69

Issue: 7

Pages: 1791-1795

Published: JUL 2018

Document Type: Article

Accession Number: WOS:000444595700039, ISI Thomson Reuters Web of Science – Clarivate Analytics

ISSN: 0034-7752

IF 2017: 1.412

Ris. 4

Influence of the Bone Cements Processing on the Mechanical Properties in Cranioplasty

By:Rivis, M; Pricop, M; Talpos, S; **Ciocoiu, R**; Antoniac, I; Gheorghita, D; Trante, O; Moldovan, H; Grigorescu, G; Seceleanu, V; Mohan, A;

REVISTA DE CHIMIE

Volume: 69

Issue: 4

Pages: 990-993

Published: APR 2018

Document Type: Article

Accession Number: WOS:000433223000049, ISI Thomson Reuters Web of Science – Clarivate Analytics

ISSN: 0034-7752

IF 2017: 1.412

Reprint Address: Ciocoiu, R (reprint author)

Ris. 5

The Influence of Chromium Content on the Structural and Mechanical Properties of AlCr_xFeCoNi High Entropy Alloys

By:Geanta, V; Voiculescu, I; Istrate, B; Vranceanu, DM; **Ciocoiu, R**; Cotrut, CM;

View ResearcherID and ORCID

INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH IN AFRICA

Volume: 37

Pages: 23-28

DOI: 10.4028/www.scientific.net/JERA.37.23

Published: 2018

Document Type: Article

Accession Number: WOS:000444288100003, ISI Thomson Reuters Web of Science – Clarivate Analytics

ISSN: 1663-3571

eISSN: 1663-4144

Ris. 6

Synthesis and Characterization of Jellified Composites from Bovine Bone-Derived Hydroxyapatite and Starch as Precursors for Robocasting

By: Miculescu, F; Maidaniuc, A; Miculescu, M; Batalu, ND; **Ciocoiu, RC**; Voicu, SI; Stan, GE; Thakur, VK;

ACS OMEGA

Volume: 3

Issue: 1

Pages: 1338-1349

DOI: 10.1021/acsomega.7b01855

Published: JAN 2018

Document Type: Article

Accession Number: WOS:000427933200143, ISI Thomson Reuters Web of Science – Clarivate Analytics

PubMed ID: 30023802

ISSN: 2470-1343

Ris. 7

The Vibration Study of DAMMAR Based Composite Bars by Using a New Euler-Bernoulli Theory

By: Bolcu, D; Stanescu, MM; Ciuca, I; Miritoiu, CM; Bolcu, A; **Ciocoiu, R**

MATERIALE PLASTICE

Volume: 54

Issue: 1

Pages: 1-7

Published: MAR 2017

Document Type: Article

Accession Number: WOS:000400629900001, ISI Thomson Reuters Web of Science – Clarivate Analytics

ISSN: 0025-5289

IF 2017: 1,248

Ris. 8

Silver Coating Of Parylene - C

By: Ionescu, MA; **Ciocoiu, RC**; Ciuca, I

UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE

Volume: 78

Issue: 4

Pages: 83-90
Published: 2016
Document Type: Article
Accession Number: WOS:000417053700009, ISI Thomson Reuters Web of Science – Clarivate Analytics
ISSN: 1454-2331

Ris. 9

Parylene-N a Better Candidate for Medical Substrate Coating than Parylene-C
By: Ionescu, MA ; Ionescu, C; **Ciocioiu, RC**; Ciuca, I
REVISTA DE CHIMIE
Volume: 66
Issue: 12
Pages: 1925-1928
Published: DEC 2015
Document Type: Article
Accession Number: WOS:000368437100002, ISI Thomson Reuters Web of Science – Clarivate Analytics
ISSN: 0034-7752
IF 2017: 1.412

Ris. 10

Failures of AISI H21 die in copper hot extrusion
By: Schwartz, M; **Ciocioiu, R**; Gheorghe, D; Ciuca, I
MATERIALS AT HIGH TEMPERATURES
Volume: 31
Issue: 2
Pages: 95-101
DOI: 10.1179/1878641313Y.0000000001
Published: MAY 2014
Document Type: Article
Accession Number: WOS:000338929800001, ISI Thomson Reuters Web of Science – Clarivate Analytics
ISSN: 0960-3409
eISSN: 1878-6413
IF 2017: 1.423

Ris. 11

NUMERICAL MODELLING OF COMPOSITE LAMINATES WITH WOVEN REINFORCEMENTS
By: **Ciocioiu, R**; Trante, O
METALURGIA INTERNATIONAL
Volume: 18
Pages: 45-50
Special Issue: 2
Published: 2013

Document Type: Article

Accession Number: WOS:000315312100010, ISI Thomson Reuters Web of Science – Clarivate Analytics

ISSN: 1582-2214

Ris. 12

FLEXURAL BEHAVIOUR OF ARAMID AND STAINLESS STEEL FIBER REINFORCED COMPOSITES

By: **Ciocoiu, R;** Trante, O

METALURGIA INTERNATIONAL

Volume: 18

Issue: 3

Pages: 65-66

Published: 2013

Document Type: Article

Accession Number: WOS:000313930000015, ISI Thomson Reuters Web of Science – Clarivate Analytics

ISSN: 1582-2214

Ris. 13

CARBON FIBER AND STAINLESS STEEL REINFORCED EPOXY COMPOSITE MECHANICAL PROPERTIES

By: **Ciocoiu, R;** Trante, O

METALURGIA INTERNATIONAL

Volume: 18

Issue: 2

Pages: 40-42

Published: 2013

Document Type: Article

Accession Number: WOS:000313469500009, ISI Thomson Reuters Web of Science – Clarivate Analytics

ISSN: 1582-2214

Ris. 14

Optimal material selection for unidirectional laminas using design of experiment (Article)

Ciocoiu, R., Trante, O., Mihai, M.,

UPB Scientific Bulletin, Series B: Chemistry and Materials Science

Volume 74, Issue 3, 2012, Pages 157-168

ISSN: 14542331

CODEN: SBPSF

Source Type: Journal

Original language: English

Document Type: Article

BDI: SCOPUS

Rio - Alte reviste de specialitate de circula ie interna ional

Rio.1

Failure of an Inconel 718 Die used in Production of Hot Copper Direct Extrusion,
M. Schwartz D. Gheorghe, **R. Ciocoiu**, I. Ciuca, G. Jula, J Material Sci Eng 2015, 4:6,
<http://dx.doi.org/10.4172/2169-0022.1000205>, ISSN: 2169-0022

Rio.2

Die failures in copper hot extrusion,
M. Schwartz, D. Gheorghe, **R. Ciocoiu**, I. Ciuca, Advanced Materials Research Vol 1114 (2015)
pp 56-61, (2015) Trans Tech Publications, Switzerland,
doi:10.4028/www.scientific.net/AMR.1114.56,

Rio.3

Preliminary research for using Rene 41 in confectioning extrusion dies,
M. Schwartz, **R. Ciocoiu**, D. Gheorghe, G. Jula & I. Ciuc , pp. 95-109, Materials
Characterisation VII, WIT Press, Ed. C. A. Brebbia, Seventh International Conference on
Computational Methods and Experiments in Materials Characterisation, Materials
Characterisation 2015, ISBN: 978-1-84564-948-7, eISBN: 978-1-84564-949-4, ISSN: 1746-
4471 (print), ISSN: 1743-3533 (on-line), WIT Press 2015, DOI 10.2495/MC150091 Pages 12
Published 2015
BDI: Google Scholar

Rns - Reviste de specialitate de circula ie na ional recunoscute de CNCSIS. Se
men ioneaz Categoria CNCSIS

Rno - Alte reviste de specialitate de circula ie na ional

Vis- Volumele unor manifest ri tiin ifice interna ionale recunoscute,
organizate in ar i str in tate, indexate ISI Thomson Reuters sau indexate in alte
Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selec ie a
publica iilor pe baza unor criterii de performanta. *Se mentioneaza la fiecare lucrare
includerea in Baza ISI [ISI Proceedings, ISSN] si/sau denumirea altei (altor) BDI.*

Vis. 1

Hydroxyapatite coating influenced by Ti6Al4V substrate roughness (Conference Paper)
Constantinescu, F., **Ciocoiu, R.**, Trante, O., Ciuca, I.
Key Engineering Materials Volume 638, 2014, Pages 62-666th International Conference on
Biomaterials, Tissue Engineering and Medical Devices, BiomMedD 2014; Constanta; Romania;
17 September 2014 through 20 September 2014; Code 118479
ISSN: 10139826
ISBN: 978-303835432-1
CODEN: KEMAE
Source Type: Book series
Original language: English
DOI: 10.4028/www.scientific.net/KEM.638.62

Document Type: Conference Paper
Volume Editors: Iulian A., Marian M., Cosmin S., Madalina A.
Publisher: Trans Tech Publications Ltd
BDI: SCOPUS

Vis. 2

Mechanical characteristics alteration of a steel used in water turbine blades (Conference Paper)
Coman, R., **Ciocoiu, R.**, Dinita, A., Ciuc, I.
Solid State Phenomena Volume 254, 2016, Pages 194-199 6th International Conference on
Advanced Materials and Structures, AMS 2015; Timișoara; Romania; 16 October
2015 through 17 October 2015; Code 181179
ISSN: 16629779
ISBN: 978-303835711-7
Source Type: Book series
Original language: English
DOI: 10.4028/www.scientific.net/SSP.254.194
Document Type: Conference Paper
Volume Editors: Nicoara M., Utu I.D., Opris C.
Publisher: Trans Tech Publications Ltd
BDI: SCOPUS

Vis. 3

Effect of TIG welding and manual metal Arc welding on mechanical properties of AISI 304 and
316L austenitic stainless steel sheets (Conference Paper)
Harb, A.A., Ciuca, I., **Ciocoiu, R.**, Vasile, M., Bibis, A., Rahali, B., Al Hawamda,
Key Engineering Materials Volume 750 KEM, 2017, Pages 26-33 6th International Conference on
Materials Science and Technologies, RoMat 2016; Bucharest; Romania; 9 November
2016 through 12 November 2016; Code 196879
ISSN: 10139826
ISBN: 978-303571217-9
CODEN: KEMAE
Source Type: Book series
Original language: English
DOI: 10.4028/www.scientific.net/KEM.750.26
Document Type: Conference Paper
Volume Editors: Antoniac I., Csaki I.
Publisher: Trans Tech Publications Ltd
BDI: SCOPUS

Vis. 4

Mechanical and Microstructural Characterization of a New Corrosion Resistant Stainless Steel
By: Voiculescu, I; Geanta, V; Stefanoiu, R; Cotrut, C; **Ciocoiu, R**; Ionescu, M;
EUROINVENT ICIR 2018
Edited by: Sandu, AV; Abdullah, MMAB; Vizureanu, P; Ghazali, CMR; Sandu, I
Book Series: IOP Conference Series-Materials Science and Engineering
Volume: 374

Article Number: UNSP 012018

DOI: 10.1088/1757-899X/374/1/012018

Published: 2018

Document Type: Proceedings Paper

Conference

Conference: EUROINVENT International Conference on Innovative Research (ICIR)

Location: Iasi, ROMANIA

Date: MAY 17-18, 2018

Accession Number: WOS:000446775900018, ISI Thomson Reuters Web of Science – Clarivate Analytics

ISSN: 1757-8981

Vi - Volumele unor manifestări științifice internaționale recunoscute, organizate în străinătate

Vi.1

M. Pantea, **R. Ciocoiu**, A. Cozma, C. A. Fischer, T. Traistaru, I. Antoniac, infrastructuri de Zirconia: teste mecanice și analiza 3D cu element finit/ Zirconia infrastructures: mechanical tests and 3D finite element analysis, Dent4All Congress, Al treilea congres cu participare internațională al Facultății de Medicină Dentară, Universitatea de Medicină și Farmacie "Carol Davila", București / The third international congress of the Faculty of Dental Medicine, University of Medicine and Pharmacy "Carol Davila", Bucharest, Volum de abstracte/Abstract Book, vol. III, ISSN 2558-9172, ISSN-L 2558-9172, pp. 79, 2019

Vi.2

R. Ciocoiu, C. Tecu, O. Trante, I. Antoniac, S. Laptoiu, M. Mardare, Rapid Prototyping Models For Surgeon's Education And Preoperative Planning, 8th International Conference "Biomaterials, Tissue Engineering & Medical Devices", Biommedd'2018, Conference Program&Abstract Volume, Ed. Printech, Issn 2069-0193, P.229

Vi.3

D. Gheorghe, **R. Ciocoiu**, A. Budici, D. Pop, C. Milea, I. Ciuca, I. Antoniac, M. Niculescu, Correlații între biocompatibilitate și rugozitate și relevanța lor pentru implanturile ortopedice metalice, 8th International Conference "Biomaterials, Tissue Engineering & Medical Devices", Biommedd'2018, Conference Program&Abstract Volume, Ed. Printech, Issn 2069-0193, P.237

Vi.4

T.M. Butte, S. Nitu, A. Maidaniuc, **R.C. Ciocoiu**, M. Miculescu, G.E. Stan, F. Miculescu, The Influence Of Silver Content On The Morphological, Compositional And Mechanical Characteristics Of Sintered Ha-Silver Microcomposites, 8th International Conference "Biomaterials, Tissue Engineering & Medical Devices", Biommedd'2018, Conference Program&Abstract Volume, Ed. Printech, Issn 2069-0193, P.245

Vi.5

O.E. Ilie, I.V. Antoniac, T.M. Butte, A. Maidaniuc, **R.C. Ciocoiu**, F. Miculescu, Finite Element Analysis And Experimental Tsting Of Mechanical Properties Of 3d Printed Materials For Internal Fixators, 8th International Conference "Biomaterials, Tissue Engineering & Medical Devices", Biommedd'2018, Conference Program&Abstract Volume, Ed. Printech, Issn 2069-0193,P.246

Vi.6

L.M. Boldu, T.M. Butte, A. Maidaniuc, **R.C. Ciocoiu**, G.E. Stan, F. Miculescu, Effect Of Calcination Temperature On The Morphology And Composition Of Fish Derived-Calcium Phosphates, 8th International Conference "Biomaterials, Tissue Engineering & Medical Devices", Biommedd'2018, Conference Program&Abstract Volume, Ed. Printech, Issn 2069-0193,P.247

Vi. 7

C. Tecu, O. Trante, **R. Ciocoiu**, A. Neculescu, O. Lupescu, G.I. Popescu, Fixation Of Humeral Shaft Fractures: A Mechanical Comparison Of Various Loadings On Locking Compression Plate, 8th International Conference "Biomaterials, Tissue Engineering & Medical Devices", Biommedd'2018, Conference Program&Abstract Volume, Ed. Printech, Issn 2069-0193,P.262

Vi. 8

O. Trante, M. Pantea, T. Traistaru, R. Bololoi, **R. Ciocoiu**, I. Antoniac, A. Saceleanu, Fea Analysis Of The Connector Cross-Section Shape Of Fixed Zirconia Restorations Used In Prosthetic Dentistry, 8th International Conference "Biomaterials, Tissue Engineering & Medical Devices", Biommedd'2018, Conference Program&Abstract Volume, Ed. Printech, Issn 2069-0193,P.264

Vi. 9

Numerical Modelling Of Composite Laminates With Woven Reinforcements,
R. Ciocoiu, O. Trante, 4th International Conference On Materials Science And Technologies, Romat 2012, 17-19 October, Bucharest, Romania, Proceedings, Issn(-L) 2285-7133, Ed. Printech, P.46

Vn - Volumele unor manifestări științifice naționale

V. BREVETE DE INVENȚIE/INOVAȚII

B - Brevete de invenție. **A** - Inovații și alte creații

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE

P - Proiecte de cercetare-dezvoltare - inovare obținute prin competiție, pe bază de contract/grant, în țară/străinătate (**Pn** - naționale, **Pi** - internaționale).

F - Alte lucrări de cercetare - dezvoltare

Pn1. Biogenic Inks combining marine collagen and ionic-doped calcium phosphates for bone tissue engineering, COFUND-M-ERA.NET II-BiogenInk - membru

F1. "Materiale speciale destinate confectionarii materialelor pentru extrudarea la cald a cuprului si alamelor", nr. ctr. 179/20.11.2012 – coautor

VII. COMUNIC RI ȘTIINȚIFICE NEPUBLICATE

E - Lucr ri prezentate la diferite seminarii/expozi ii, conferin e, etc.

E1. R.C. Ciocoiu, O. Trante, Considera ii privind analiza cu element finit a materialelor compozite, Simpozionul Na ional de Biomateriale „Biomateriale, Ingineria esurilor i Aplica ii Medico – Chirurgicale”, edi ia a VIII-a, 16 – 17 noiembrie 2011, Universitatea Politehnica din Bucure ti

E2. Robert CIOCOIU, Octavian TRANTE, Tape and Woven Reinforcements for Composites. A Theoretical Comparison, INCER, Innovation and Collaboration in Engineering Research, 2-4 July 2012, Bucharest, Romania

E3. Extrusion Die Failure Estimation by Simulation, M. Schwartz, D. Gheorghe, **R. Ciocoiu**, I. Ciuca, Poster P21 B2, ROMAT 2014, 15-17 October 2014, Bucharest, Romania, 5th International Conference on Materials Science and Technologies

E4. R. Ciocoiu, R. Coman, O. Trante, M. Vasile, I. Ciuca, Corrosion behavior of weld repairs for water turbine blades, 6th International Conference on Materials Science and Technologies, RoMat2016

E5. M.Pantea, I. Antoniac, O. Trante, R. Ciocoiu, C. Fischer, T. Traistaru, Connector design influence on strength of zirconia prosthetic restorations, 41st Annual Conference of European Prosthodontic Association, 28-30 september, 2017, Bucharest, Romania