

## Appendix: List of publications

### BOOKS and BOOK CHAPTERS

No.	Authors	Title	Publisher	ISBN	Year	No. of Pages
1	L.R.Cucuruz <b>M.Nicoara</b>	Elaborarea si solidificarea materialelor	Politehnica Timisoara	978-606-554-751-3	2013	117
2	L.R.Cucuruz <b>M.Nicoara</b> B.Radu A.Raduta	Aliaje neferoase. Aluminiul și aliajele sale	Politehnica Timisoara	978-606-554-221-1	2010	146
3	<b>M.Nicoară</b> I. Vida–Simiti C. Demian	Esential in Metalurgia Pulberilor	U.T. Press Cluj-Napoca	978-973-662-439-1	2009	152
4	I.Vida –Simiti <b>M.Nicoara</b>	Experiment si calitate in Metalurgia Pulberilor	U.T. Press Cluj-Napoca	978-973-662-438-4	2009	235
5	<b>M.Nicoară</b>	Les Mousse Metallique (French), in <i>Inginerie Asistee par Ordinateur et Nouveaux Materiaux</i>	Orizonturi Universitare Timisoara	(10)973-638-266-4, (13)978-973-638-266-6	2006	15
6	G.Belgiu <b>M.Nicoară</b> D.Stan	Sisteme CAD/CAM/CAE/PLM	Centrul de Multiplicare al UPT Timisoara	-	2004	143
7	<b>M.Nicoară</b>	Metallic foams (English) in <i>Advanced materials</i> , Summer School, 12-25 September 2004	Orizonturi Universitare Timisoara	973-638-130-7	2004	20
8	<b>M.Nicoara</b>	Discontinuously reinforced aluminum composites (English), in <i>Advanced materials</i> , Summer School, 12-18 September 2002	Orizonturi Universitare Timisoara	973-8391-49-0	2002	28
9	M.Truşculescu A.Răduță <b>M.Nicoară</b>	Studiul materialelor - întrebări și răspunsuri	EUROBIT Timisoara	9739201024	1995	119

## EDITOR

No.	Editors	Title	Publisher	ISBN	Year	No. of. Pages
1	P.Andea S.Kilyeni <b>M.Nicoara</b>	Selected Topics in Energy, Environment, Sustainable Development and Landscaping	WSEAS Press Athens	978-960-474-237-0	2010	453
2	<b>M.Nicoară</b> A.Răduță C.Opriș	Solid State Phenomena (Volume 188), Advanced Materials and Structures IV	Trans Tech Publications Inc. Zurich	13:978-3-03785- 391-7	2012	432
3	<b>M.Nicoara</b> C.Opris	Solid State Phenomena, Advanced Materials and Structures V	Trans Tech Publications Inc. Zurich	13: 978-3-03835- 212-9	2014	346
5	A.Raduta <b>M.Nicoara</b> C.Demian C.Locovei	Ingenerie Assitee par Ordinateur et Nouveaux Materiaux	Orizonturi Universitare Timisoara	(10)973-638-266-4, (13)978-973-638- 266-6	2006	238
4	A.Raduta <b>M.Nicoara</b> C.Firu	European summer school on smart and new materials	Orizonturi Universitare Timisoara	978-973-625-407-9	2005	170
6	A.Raduta <b>M.Nicoara</b> C.Firu	Advanced materials, Summer School, 12-25 septembrie 2004	Orizonturi Universitare Timisoara	973-638-130-7	2004	189
7	A.Raduta <b>M.Nicoara</b> L.Berta C.Firu	Advanced materials and structures, Proceeding of conference, 19-21 septembrie 2002	Orizonturi Universitare Timisoara	973-8391-50-4	2002	390
8	A.Raduta <b>M.Nicoara</b> L.Berta C.Firu	Advanced materials, Summer School, 12-18 septembrie 2002	Orizonturi Universitare Timisoara	973-8391-49-0	2002	392

ISI Thomson indexed JOURNALS

No.	Authors	Title	Journal / No. or Vol.	Year	Pag. No. / No. pages	Imp Fact (IF)
1	M.Liță <b>M.Nicoară</b>	The Use of Amorphous And Quasi-Amorphous Fe–Cr–P-Powder for Fabrication of Magnetic Rheological Suspensions	Journal of Magnetism and Magnetic Materials (201/1999)	1999	49-52	1.97
2	<b>M.Nicoara</b> L.R.Cucuruz I.Cartis	Partikelverstärkter Verbundwerkstoffe	Metall 1-2/2000, Huethig Verlag, Germany, ISSN 0026-0746	2000	30-36	0.105
3	L.R.Cucuruz M.Lita <b>M.Nicoara</b> C.Demian A.Raduta	Investigations of the Temper Brittleness of Complex Alloyed Aluminum Bronzes	Materials Testing 51 (4):	2009	238-242	0.224
4	A.Răduță <b>M.Nicoară</b> L.R.Cucuruz C.Demian	The Influence of Processing Methods upon Microstructure of TIG Welded Incoloy 800	Metalurgia International vol. XV (2010), no. 6, ISSN 1582-2214, pp. 5-11	2010	5-11	0.154
5	M.Stoica R.Parthiban I.Kaban S.Scudino <b>M.Nicoara</b> B.M.Vaughan J.Wright R.Kumar J.Eckert	Structure evolution of soft magnetic $(\text{Fe}_{36}\text{Co}_{36}\text{B}_{19.2}\text{Si}_{4.8}\text{Nb}_4)_{100-x}\text{Cu}_x$ ( $x = 0$ and $0.5$ ) bulk glassy alloys	Acta Materialia 95 (2015) 335-342	2015	335-342	4.465
6	A.Raduta <b>M.Nicoara</b> C.Locovei J.Eckert M.Stoica	Ti-based bulk glassy composites obtained by replacement of Ni with Ga	Intermetallics 69 (2016)	2015	28-34	2.131

7	<b>M.Nicoara</b> A.Raduta R.Parthiban C.Locovei J.Eckert M.Stoica	Low Young's modulus Ti-based porous bulk glassy alloy without cytotoxic elements	Acta Biomaterialia 36 (2016)	2016	323-331	6.025
8	<b>M.Nicoara</b> C.Locovei V.A.Serban R.Parthiban M.Calin M.Stoica	New Cu-Free Ti-Based Composites with Residual Amorphous Matrix	Materials 9/331 (2016), doi:10.3390/ma9050331	2016	14	2.65
9	<b>M.Nicoara</b> A.Raduta C.Locovei D.Buzdugan M.Stoica	About Thermostability of Biocompatible Ti-Zr-Ta-Si Amorphous Alloys	Journal of Thermal Analysis and Calorimetry 124/2016, doi:10.1007/s10973-016-5532-5 ( <a href="http://www.springer.com/-/2/AVTvKaOnAgfPWjhrJbUb">http://www.springer.com/-/2/AVTvKaOnAgfPWjhrJbUb</a> )	2016	7	2.042
10	<b>M.Nicoara</b> C.Locovei C.Opris D.Ursu R.Vasiu M.Stoica	Optimizing the Parameters for In-situ Fabrication of Hybrid Al-Al <sub>2</sub> O <sub>3</sub> Composites	Journal of Thermal Analysis and Calorimetry 124/2016, doi:10.1007/s10973-016-5595-3 ( <a href="http://www.springer.com/-/0/AVVqw1A-zcKeXVPtYPZP">http://www.springer.com/-/0/AVVqw1A-zcKeXVPtYPZP</a> )	2016	7	2.042

### ISI PROCEEDINGS indexed VOLUMES

No.	Authors	Title	Volume	Year	Pag. No. / No. pages
1	<b>M.Nicoară</b> A.Răduță	The Effect of Particle Reinforcement upon Precipitation of Secondary Phases in Composites with Aluminum Matrix	Defect and Diffusion Forum, vol. "Defects and Diffusion in Metals", 2002, TRANS TECH PUBLICATIONS Ltd.	2002	277-280
2	E.Labbe F.Serban M.Nicoara A.Lodini	Evaluation of the residual stresses and determination of the proportion of residual austenite in an Austempered Ductile Iron having undergone thermo mechanical treatments	STRESS EVALUATION IN MATERIALS USING NEUTRONS AND SYNCHROTRON RADIATION	2008	95-100
3	<b>M.Nicoara</b> A.Raduta C.Locovei V.A.Serban E.Labbe A.Lodini	Optimization of Energy Consumption and Microstructure Aspects on Brazing of Aluminum Tubes for Automotive Industry	Proceedings of the 11th WSEAS International Conference on Sustainability in Science Engineering (SSE 09)	2009	325-329
4	A.Răduță <b>M.Nicoară</b> R.L.Cucuruz	Reduction of Carbon Dioxide Emissions through Extension of Induction Brazing of Aluminum in Automotive Industry	Recent Advances in Energy & Environment, Proceedings of the 5th IASME / WSEAS International Conference on Energy & Environment (EE'10)	2010	190-195
5	I.Vida-Simiti N.Jumătate E.Bruj A.N.Sechel G.Thalmaier <b>M.Nicoară</b>	Metallic Foams Obtained from Nickel Based Superalloy Hollow Spheres	Researches in Powder Metallurgy 2011, Materials Science Forum, Volume 672, (Selected papers from the 4th International Conference on Powder Metallurgy, RoPM 2009)	2011	141-145

6	G.Thalmaier I.Vida-Simiti N.Jumate V. A.Şerban C.Codrean <b>M.Nicoară</b> L.Bukkosi	Thermal Stability of Ni <sub>40</sub> Ti <sub>40</sub> Nb <sub>20</sub> and Ni <sub>32</sub> Ti <sub>48</sub> Nb <sub>20</sub> Tapes Obtained by Rapid Solidification Technique	Journal Solid State Phenomena (Volume 188 - Advanced Materials and Structures IV)	2012	41-45
7	L.R.Cucuruz <b>M.Nicoară</b> A.Răduță C.Locovei M.Cucuruz F.Tatu	Considerations on Outliers in Medical Sciences and Materials Characterization	Journal Solid State Phenomena (Volume 188 - Advanced Materials and Structures IV)	2012	185-192
8	<b>M.Nicoară</b> A.Răduță C.Locovei	Computerized Image Processing for Evaluation of Microstructure in Metallic Matrix Composites	Journal Solid State Phenomena (Volume 188 -Advanced Materials and Structures IV)	2012	124-133
9	A.Răduță M.Nicoară C.Locovei	About Thermostability of Fe-Ni-P Amorphous Alloys	Journal Solid State Phenomena (Volume 188 -Advanced Materials and Structures IV)	2012	7
10	<b>M.Nicoara</b> A.Raduta C.Locovei C.Opriş D.Sosdean R.Vasiu F.Gnadt D.Lungu	Optimizing the Parameters of Reactive Sintering for In Situ Fabrication of Al-Al <sub>2</sub> O <sub>3</sub> Composites	Journal Solid State Phenomena (Volume 216 -Advanced Materials and Structures V)	2014	255-260
11	C.Locovei <b>M.Nicoară</b> A.Răduță	Sample Preparation and HR-TEM Investigation Techniques of Ti Based, Ga Containing, Amorphous Alloys	Journal Solid State Phenomena (Volume 216 -Advanced Materials and Structures V)	2014	181-186
12	A.Raduta <b>M.Nicoara</b> C.Locovei M.Stoica J.Eckert	About Replacement of Nickel as Amorphization Element for Fabrication of Ultra-Rapidly Solidified Ti-Zr Alloys	Journal Solid State Phenomena (Volume 216 -Advanced Materials and Structures V)	2014	3-10

### JOURNALS indexed by INTERNATIONAL DATABASES

No.	Authors	Title	Journal / No. or Vol.	ISBN	Database	Year	Pag. No. / No. pages
1	C.Locovei C.Demian A.Rădută <b>M.Nicoară</b>	Metallographic evaluation of the positive echos in S355J2G3 steel flanges	Scientific Bulletin of the "Politehnica" University of Timisoara, Transactions on Mechanics, 55 (69)	1224-6077	Google Scholar	2010	6
2	<b>M.Nicoară</b> A.Răduta C.Demian C.Locovei E.Labbé	Some Metallographic Aspects of Sealing Defects at Brazing of Aluminum Alloys Tubes	Scientific Bulletin of the "Politehnica" University of Timisoara, Transactions on Mechanics, 53 (67)	1224-6077	SCOPUS	2008	87-93
3	A.Raduta, <b>M.Nicoara</b> C.Opris C.Demian	Incoloy 800 Welded Joints Behaviors to Mechanic and Thermal Loads in Corroding Environments	Scientific Bulletin of the "Politehnica" University of Timisoara, Transactions on Mechanics, 50 (64)	1224-6077	SCOPUS	2005	167-170

### VOLUMES indexed by INTERNATIONAL DATABASES

No.	Authors	Title	Volume	ISBN	Databa se	Year	Pag. No./ No. pages
1	<b>M.Nicoară</b> I.Carțiș A.Răduță	Effect of processing variables and reinforcement fraction on the hardness response of P/M produced AlCuSiMg/SiCp metal matrix composites	Proceedings of the Conference on Materials and Manufacturing Technologies, MATEHN'98	973-98701-2-0	Scopus	1998	995-998
2	A.Raduta <b>M.Nicoara</b> C.Demian	Some Aspects Regarding the Fracture of Welding Joints Applied on Austenitic Steels and INCOLOY Alloys	Proceedings of Crack Paths (CP 2006)	978-88-95940-27-4	Google Scholar	2006	1-8

3	A.Raduta <b>M.Nicoara</b> C. Locovei	The Influence of Residual Stresses on the Fatigue Resistance of Axles Used in the Construction of Railway Equipment	Proceedings of Crack Paths (CP 2006)	978-88-95940-27-4	Google Scholar	2006	8-16
4	A.Raduta <b>M.Nicoara</b> C.Demian C.Locovei	Structural and Metallographical Analysis to Establish the Behavior of the Austenitic Stainless Steel Welded Joints Working in Corrosive Environment	International Conference Structural Integrity of Welded Structures	973-8359-27-9	Scopus	2004	135-144
5	<b>M. Nicoară</b> A. Răduță L.R.Cucuruz C.Locovei	Numerical simulation of fluid flow and heat transfer in a water heater	Proceedings of the 3rd WSEAS International Conference on Finite Differences - Finite Elements - Finite Volumes - Boundary Elements, F-and-B '10	978-960-474-180-9	Google Scholar	2010	98-105
6	C.Locovei A.Răduță <b>M.Nicoară</b> L.R.Cucuruz	Analysis of fatigue fracture of tank wagon railway axles	Proceedings of the 3rd WSEAS International Conference on Finite Differences - Finite Elements - Finite Volumes - Boundary Elements, F-and-B '10	978-960-474-180-9	Google Scholar Scopus	2010	219-223
7	A.Răduță <b>M.Nicoară</b> L.R.Cucuruz C.Locovei	Optimal design of heating elements sheathed with INCOLOY superalloy 800	WSEAS Transactions on Applied and Theoretical Mechanics, 5 (3)	1991-8747	Google Scholar	2010	208-220
8	A.Răduță C.Locovei <b>M.Nicoară</b> L.R.Cucuruz	On the influence of residual stresses on fatigue fracture of railway axles	WSEAS Transactions on Applied and Theoretical Mechanics, 5 (3)	1991-8747	Google Scholar	2010	197-207
9	<b>M.Nicoară</b> A.Răduță L.R.Cucuruz C.Locovei	Optimization of induction brazing for thin-walled aluminum tubes	WSEAS Transactions on Applied and Theoretical Mechanics, 5 (2)	1991-8747	Google Scholar	2010	134-145.
10	<b>M.Nicoară</b> A.Răduță C.Locovei V.A.Serban	Contributions to thermo-mechanical processing of al-based particle-reinforced composites	Proceedings of Colloquium of European Centre for Emerging Materials and Processes Dresden, Technische Universität Dresden, pp. 229-253	978-3-00-032522-9	Scopus	2010	229-253



11	S.I.Stratul D.Rusu A.Didilescu L.Nica C.Locovei M.Nicoara	Contributions to Investigation of Oral Biofilms Using Low-Vacuum Scanning Electron Microscopy	Recent Researches in Modern Medicine	978-960-474-278-3	Google Scholar	2011	379-384
12	<b>M.Nicoara</b> A.Raduta C.Locovei	Computer-aided evaluation of particle distribution in metallic matrix composites	Proceedings of the Euro International Powder Metallurgy Congress and Exhibition, Euro PM 2011	978-1-899072-23-1	Google scholar SCOPUS	2011	110-117
13	C.Locovei <b>M.Nicoară</b> A. Răduță V.A.Șerban	Contributions to computer-aided evaluation of microstructure for particle reinforced composites by mean of image processing	Proceedings of the 4th International Conference Advanced Composite Materials Engineering COMAT 2012	978-0981730059	Google Scholar	2012	90-95
14	A.Raduta C.Locovei <b>M.Nicoara</b> A.Tulcan	Numerical Techniques Used in Characterization of Biomaterials	The 6th WSEAS International Conference on ENERGY, ENVIRONMENT, ECOSYSTEMS and SUSTAINABLE DEVELOPMENT (EEESD'10)	978-960-474-237-0	Google Scholar	2010	6
15	L.Cucuruz <b>M.Nicoara</b> A. Raduta C.Locovei E.Labbe	Contributions to Optimization of Properties for Components Fabricated by Mean of Selective Laser Sintering from Composed Materials	The 6th WSEAS International Conference on ENERGY, ENVIRONMENT, ECOSYSTEMS and SUSTAINABLE DEVELOPMENT (EEESD'10)	978-960-474-237-0	Google Scholar Scopus	2010	7

## PATENTS

Authors	Title	Patent No.	Year
M.Nicoara, A.Raduta, V.A.Serban	Inductor for joining tubes and metal profiles by brazing, soldering or welding	RO 125284	2012

### Legend:

	first author
	FI >0.5