



CURRICULUM VITAE

PERSONAL INFORMATION

Name Surname

Address

Telephone Number

E-mail

Nationality

ABRUDEANU Mărioara

Gheorghe Lazăr Street, nr.11, 110023 Pitești, Argeș District

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Romanian

EDUCATION AND TRAINING

- Period
- Name and type of the educational organization
- Period

1967-1972

Polytechnic Institute București, Faculty of Metallurgy

1972-Engineer Diploma

- Period
- Name and type of the educational and training organization
- Diploma or certificate granted

1991- Doctor's Degree in the fundamental domain Engineering Sciences – domain Materials Science and Engineering

December 1991 - June 1992

Postdoctoral stage, grant of French Government at Institut National Polytechnique de Lorraine, Université Nancy I, Ecole des Mines de Nancy, Laboratoire de Science et Génie des Matériaux Métalliques: "

Postdoctoral stage certificate :” L'influence de l'oxydation à haute température sur les propriétés thermophysiques de l'alliage zircaloy-4 ”.

- Period
- Name and type
- Basic theme/acquired competences

May 1992 Continuous Learning stage CNRS

Continuous Learning Center "Materials -Surfaces-Interfaces", Université Marseille 2

Advanced certificate in "Analysis Techniques for Surfaces, Interfaces and Thin Layers”.

- Period
- Name and type of organization
- Basic theme/acquired competences

July-August 1992 postdoctoral stage, grant of French Government,

Université Paris-Nord, Laboratoire d'Ingénierie des Matériaux et Hautes Pressions:

Large surface superficial strata developed on high-alloyed steels with Cr and Al

- Period
- Name and type of organization
- Basic theme/acquired competences

November-December 1992 – Visiting researcher at National Scientific Research Center of France (CNRS)

Institut des Matériaux, University of Paris - Sud Orsay

"Study on obtaining through oxidation a proper surface for the use of Fe-Cr-Al as metallic support for a catalytic filter”.

- Period
- Name and type of the educational and training organization

January-March 1994 – research stage in the European programme PECO - CE

Institut National Polytechnique de Toulouse, Ecole Nationale Supérieure de Chimie, Laboratoire de Matériaux en couches minces

• Basic theme/acquired competences	„Chemical deposits as vanadium carbonitration vapors, on steel support, starting from organometallic precursors".
• Period	1996- 2002
• Name and type of the educational and training organization	University Wolverhpton, Academy Orléans – Tours, Ecole Centrale de Paris – Laboratory of Physical chemistry of Solides, CESI Paris Ile de France, Odense TS, IAW Aachen, Universidad Autonoma Barcelona, CNRS –France – Solar Furnace Odeillo Font Romeu
• Basic theme/acquired competences	Continous Learning, international collaboration, research in the domain nanomaterials-nanotechnologies.

WORK EXPERIENCE

INDUSTRY

• Period	August 1972- August 1975
• Employer's name and address	Dacia Pitesti Plant
• Domain/field of activity	Chief Metallurgist Office
• Occupation or position held	Trainee engineer –Process engineer, Designing engineer.

DIDACTIC ACTIVITY

• Period	September 1975- March 1993
• Employer's name and address	University of Pitești
• Occupation or position held	Assistant lecturer, Works Coordinator
• Period	1993-1997
• Employer's name and address	University of Pitești, Technology and Management Chair
• Domain/field of activity	Higher Education
• Occupation or position held	Associate professor
• Main activities and responsibilities	- Teaching courses : Materials Study, Materials Technology, Corrosion and Anticorrosion Protection - Coordinator of The Master programme in French language teaching „Science and Technology of Materials”; initiated in 1995, and developed in a partnership with 6 universities and French „grandes écoles „ plus as research partners CNRS – Laboratory Promes and the Institute of Materials Science Barcelona and other French universities. Since 2004 the graduates of the Master programme are awarded a double diploma – Research Master diploma from the Polytechnic National Institute of Toulouse and from the Univesity of Pitesti - Coordinator of the French learning module „Corrosion et protection contre la corrosion” developed in collaboration with Ecole Centrale Paris for the engineering specialities - Scientific secretary of the Engineering faculty - Managing Director of International Relations University of Pitești, founder of the International Relations Office
• Period	March –May 1997
Employer's name and address	Institut National Polytechnique de Toulouse, Ecole Nationale Supérieure de Chimie
Domain/field of activity	Materials in Thin Layers
• Occupation or position held	Visiting Professor
Main activities and responsibilities	Conferences, seminars, scientific activity
• Period	1999/2000, 2001/2002, 2004/2005 (2-3 months/university year)
Employer's name and address	National Institute of Applied Sciences from Lyon, Laboratory of Industrial Physics and Chemistry

Domain/field of activity	Corrosion and Anticorrosion Protection
• Occupation or position held	Visiting professor, conferences, scientific research, teaching activities „Corrosion at high temperatures” -engineers
• Period	1997 – 2015
• Employer’s name and address	University of Pitești, Technology and Management Department
• Domain/field of activity	Higher education
• Occupation or position held	Professor
• Main activities and responsibilities	▪ Coordinator of The Master programme ”Science and Technology of Materials”- STM, in partnership with EC Paris, INSA Lyon , ENI Tarbes, Université de Metz, INP Toulouse, INP Loraine, with Master Diploma of University of Pitești and Research Master Diploma of The Polytechnic National Institute of Toulouse ▪ Member in The Research Master Commision Matériaux of INP Toulouse ▪ Teaching courses in Romanian : Materials Science, Materials Technology, Materials Processing Technology, Physical Metallurgy, Corrosion and Anticorrosion Protection. ▪ Teaching courses in French: Technologies de mise en forme, Technologies de réalisation des revêtements protecteurs, Corrosion et protection contre la corron. ▪ PhD adviser in the domain Materials Engineering (2000 present): 20 theses in coordination, of which 16 completed with the title of doctor / 8 in co-supervision with French universities and 5 theses in progress / 2 in international collaboration with Germany and Italy. ▪ Coordinator of Initial and Continuous Formation European projects and for international collaboration development; ▪ Managing Director of International Relations University of Pitești, 1997-2000; ▪ Vice-rector for Scientific Research activities, international relations and continuous formation - University of Pitești, 2000-2004; ▪ President of Scientific Council - University of Pitești, 2000-2004; ▪ Founder of the Continuous Formation Department - University of Pitești, 2002; ▪ Collaboration with BECO –AUF for the founding of University of Pitesti Center for Academic Success, 2014; ▪ Vice-rector for Research and Competitivity 2012-2015 ▪ President of University Foundation Pitești, 1999. ▪ Member of CNCSIS Council 2003-2008 ▪ Member of The Academy of Technical Sciences from Romania, 2005. ▪ Member of The Romanian Council for the History and Philosophy of Science and Technology, Romanian Academy, 2012 ▪ Member of The National Council for Attestation of Academic Titles, Diplomas and Certificates - Materials Engineering Commission, 2011, Member in the international pilot-committee of the francophone project for young leaders formation, 2014 ▪ Member of Romanian Alliance for Education in Engineering-president Arges Branch, 2015 ▪ Award for research of CNCSIS, 2008 ▪ Distinction „Palme académiques”- granted by National Assembly of France on the 25-th of July 1996.

HONOURS AND AWARDS

PERSONAL SKILLS MANAGERIAL SKILLS

Initiative, communication, determination
Organization, management and evaluation capacities

TECHNICAL SKILLS	Technical expert in the domain of materials for state administration, since 1981
	Expert evaluator national research programmes
	Continuous formation trainer.
FOREIGN LANGUAGES	
FRENCH	
• Reading	Very well
• Writing	Very well
• Speaking	Well
RUSSIAN	
• Reading	Satisfactory
• Writing	Satisfactory
• Speaking	Satisfactory
ENGLISH	
• Reading	Satisfactory
• Writing	Satisfactory
• Speaking	Satisfactory

LIST OF PUBLICATIONS, 1990-2021

Books in Central Publishing Houses :

- **Marioara Abrudeanu**, Adriana-Gabriela Plăiașu, Maria-Magdalena Dicu, 2015, Materiale-compozitie, microstructura, proprietati, ISBN 978-973-47-1827-6, Editura Paralela 45,
- Clara Abrudeanu, H Zingle, **M Abrudeanu**, 2014 : **Matériaux**, Editura Paralela 45, ISBN 978-973-47-1821-4, dictionar francez-român, român francez.
- **Marioara Abrudeanu**: Materiale , Ed Paralela 45, 2011, ISBN 978-973-47-1124-6,
- C Pereira, T Evirgen, **M Abrudeanu**, T Inclanzan, F Fericeanu, M Petermandl, M Le May, I Lifka, 2002, “Double evolution-sistem pentru managementul calitatii in formarea personalului”, Editura Tehnica, Bucuresti, ISBN 973-31-2007-3.
- C Pereira, **M Abrudeanu**, T Evirgen, M Petermandl, M Le May, I Lifka, T Inclanzan, F Fericeanu, 2001, “Double evolution”, WIFI Viena—CD Rom .
- N. Bizon, **M Abrudeanu**, T Macarie, D Chirlesan, G Chilesan, E Neagu, 2001, Tehnologia informatiei si comunicarii, Editura Tehnica, 2002, Bucuresti, ISBN 973-31-2062-6.
- **Marioara Abrudeanu**, Roxana Piticescu, Radu Piticescu, 2000, Sinteza pulberilor ceramice in medii ultradisperse, Editura Tehnica, Bucuresti, ISBN 973-31-1381-6
- Ioan Lita, **Marioara Abrudeanu**, 2000, Efectul radiatiilor asupra materialelor si componentelor electronice, Editura Tehnica, Bucuresti, ISBN 973-31-1495-2.
- **Marioara Abrudeanu**, 1999, Stiinta materialelor, Editura Tehnica, Bucuresti, ISBN 973-31-1383-2

Books, textbooks published in University or local presses:

- **M. Abrudeanu**, GA Plaiasu, EL Stirbu: Metalografie, Editura Universitatii din Pitesti, 2009, ISBN 978-973-690-888-0
- Jean-Pierre Millet , Adriana-Gabriela Plaiasu, **Mărioara Abrudeanu**, 2012, Analyser, comprendre, resoudre un probleme de corrosion. Rappels de cours. Exercices et etudes de cas, ISBN 978-606-560-293-9, Ed. Editura Universitatii din Pitești.
- Adriana-Gabriela Plaiasu, Constantin Vahlas, **Mărioara Abrudeanu**, Maria Magdalena DICU, 2012, Termodinamica în metalurgie. Aplicații, ISBN 978-606-560-280-9/, Ed. Universitatii din Pitești,
- **M Abrudeanu** ,1997, 1999, Studiul materialelor Vol.1,2, Ed. Universitatii Pitesti ISBN 973-988-19-1-2.
- **M Abrudeanu**, I Lita, 1997, Materiale pentru electromecanică - tehnici de laborator, Ed. Pygmalion Pitești, ISBN 973-96591-9-5.

- **M Abrudeanu**, 2001, Tehnologia materialelor vol.1, Ed.Universitatii, Pitesti, ISBN 973-8212-81-2.
- **M Abrudeanu**, M Gavrilă, 1997, Durabilitate și coroziune- tehnici de laborator, Ed.Pygmalion Pitești, ISBN 973-96591-8-7
- **M. Abrudeanu**, 1995, Coroziune și protecție anticorozivă, Editura ARS-TEMPUS Pitesti, 129 pagini, ISBN 973-96657-3-X.
- **M Abrudeanu**, C Petot, G Petot-Ervas, 1996, Corrosion et protection contre la corrosion, m.e.f., Universitatea din Pitesti

ISI Quoted Articles

- Characterization of Archaeological Artefacts Using Methods Specific to Materials Science: The Case Study of Dacian Ceramics from 2nd c. BC to 1st c. AD, L. Teodorescu, Ayed Ben Amara, Nadia Cantin, Rémy Chapoulie, Cătălin Ducu, Sorin Ciucă, Claudiu Tulugea, Carol Terteci, **Mărioara Abrudeanu**, <https://www.mdpi.com/1996-1944/14/14/3908>, Published: 13 July 2021
- Structure and heat transfer in zircaloy - 4 treated at high temperature, **Mărioara Abrudeanu**, Maria Magdalena Dicu, Maria Minodora Pasăre, Collection of Papers in Material Science from https://www.mdpi.com/journal/materials/special_issues/Materials_Romania,2021
- D C Anghel, AE Rosu, G Neacsu, IA Popa, M Branzei, V Rizea, CM Ducu, MM Dicu, AD Rizea, E Ungureanu, **M Abrudeanu**, 2019 : The influence of thermal shocks on the thermophysical properties of the zircaloy-4, Revista de chimie, Bucharest, 70, 2, p 575-577.
- A. Popa, A. E. Rosu, G. Neacsu, D. C. Anghel, V. Rizea, M Branzei, CM. Ducu, M.M. Dicu, **M. Abrudeanu**, 2018 : The influence of the high temperatures thermal shocks on the microstructure and harness of zircaloy-4 alloy, Revista de chimie, 69(7), 1655-1660,
- M. Stanciulescu, **M. Abrudeanu**, C. Ducu, A.G.Plaiasu, 2018,: Chemical redistribution and microstructural evolution of ODS Fe-Cr powders during mechanical alloying, Revista de Chimie (Bucuresti), 69, nr.2,p.495-498,
- Al. Nițu, V. Radu, E. Ungureanu, **M. Abrudeanu**, 2018 The study of the mechanical properties of small tubes made from Oxide Dispersion Strengthened steel by using the Ring Tension Tests, Revista de chimie ISSN 0034-7752, vol. 69, nr. 11/2018 (accept de publicare nr.51/18.04.2018);
- Al. Nițu, V. Radu, E. Ungureanu, **M. Abrudeanu**, 2018, Investigation of the fracture mechanics properties of small tubes from Oxide Dispersion Strengthened steels, Revista de chimie ISSN 0034-7752, vol. 69, nr. 12/2018 (accept de publicare nr.51/18.04.2018).
- Madalina Stanciulescu, **Mărioara Abrudeanu**, Andrei Galatanu, Paula CARLAN Maria Mihalache: Dissolution Behaviour of Alloying Elements Into Vanadium Matrix During Mechanical Milling, Rev.Chim.(Bucharest) ♦68 ♦No. 5 ♦2017, pag 1109-1113
- E S Barca, L C Trinca, M Filipescu, M DINESCU, A-G Plaiasu, **M Abrudeanu**, R Leata, 2016,: Influence of CeO2 Thickness Layer Deposited on the 945A Steel, Substrate Concerning the Corrosion Process, REV.CHIM.(Bucharest) ♦67 ♦No., f.i 0.956
- N. Halem, Z.Halem, **M. Abrudeanu**, C.Petot, G. Petot-Ervas, 2016,: Transport properties of Al or Cr-doped nickel oxide relevant to the thermal oxidation of dilute Ni-Al and Ni-Cr alloys, Solid State Ionics, 297, 13-19, banda galbena UEFISCDI, f.i. 2.561.
- ES Bârca; M Filipescu, C Luculescu, B Birjega, M Dumitru, C Néstor, C Stanciu, **M Abrudeanu**, C. Munteanu, M Dinescu, 2016,: Pyramidal growth of ceria nanostructures by pulsed laser deposition, Applied Surface Science, 363 245-251, banda rosie UEFISCDI, f.i. 2.711
- G.L. Pintilei a,b,*, V.I. Crismarub, **M. Abrudeanu**, C. Munteanu, E.R. Baci, B. Istrate B,N. Basescu, 2015 : The behavior of ZrO2/20%Y2O3 and Al2O3 coatings deposited on aluminum alloys at high temperature regime, Applied Surface Science, 352, 178–183
- G.L. Pintilei, V.I. Crismaru B, **M. Abrudeanu**, C. Munteanu, D. Luca, B. Istrate, 2015 The influence of ZrO2/20%Y2O3 and Al2O3 deposited coatings to the behavior of an aluminum alloy subjected to mechanical shock, Applied Surface Science, 352, 169–177
- I Dumitrescu, Iulia Maria; Mihalache, Maria; **Abrudeanu, Marioara**, 2015 : Isothermal Oxidation of UO2 Fuel Pellets in Steam.Revista de chimie Volume: 66 Issue: 2, 290-293
- I.Dumitrescu,, M .Mihalache, A Dinu,, Meleg, T Ohai, D, **Abrudeanu, M**, 2015, Fuel Pellets Phase Composition Evolution During Steam or Air Oxidation, REVISTA DE CHIMIE Volume: 66 Issue: 3, 316-319
- Geanina Laura Pintilei, **Marioara Abrudeanu**, Corneliu Munteanu, Dragomir-Stanciu Daniel, Ionut Vasile Crismaru, 2015 „The characterization of an 99,5% Al2O3 coating deposited on a Ti alloy and subjected to thermal shock”, Procedia Technology 19, 276 – 283

- E. S. Barca, A. G. Plaiasu, **M. Abrudeanu**, B. Istrate, D. Luca, C. Munteanu 2015 "Study of the plasma deposition of Al₂O₃ powder on an internal combustion engine piston" Journal of optoelectronics and advanced materials, Vol. 17, No. 9-10, 1522 - 1527
- E S Bărcă, V Rizea, **M Abrudeanu**, A G Plaiasu, B Istrate and C Munteanu , 2015:Comparative study of morphology and composition on oxide nanopowders elaborated by SPVD" Materials Science and Engineering 95 012028 doi:10.1088/1757-899X/95/1/012028
- G.Plăiașu, **M. Abrudeanu**, M.M.Dicu, C.Monty 2014,: Elaboration and nanostructural study of pure and Al doped ZnO nanopowders, Journal of Optoelectronics and Advanced Materials., 16 (9-10), 1116-1120
- Adriana-Gabriela Plăiașu, Carmen Mihaela Topală, Alice Dinu, **Mărioara Abrudeanu**, Claudiu Suțan , 2014,: Cooper oxides nanopowders: synthesis by S.P.V.D. and characterisation, Revista de Chimie, 66.no.10, 1636-1638.
- Bubulinca, C.; Balandraud, X.; Grediac, M.; S. Stanciu, **Abrudeanu M**, 2014 Characterization of the mechanical dissipation in shape-memory alloys during stress-induced phase transformation, Journal of materials science volume: 49 issue: 2 , 701-709 ,
- Adriana-Gabriela Plăiașu, Alice Dinu, **Mărioara Abrudeanu**, Vasile Rizea, Denis Negrea, Dionisie Bojin, Marius Enăchescu, Claude Monty, Corneliu Munteanu, 2014: Synthesis and microstructural characterization of CuO nanoparticles elaborated by S.P.V.D., Environmental Engineering and Management Journal, 763-1038.
- Bubulinca C., Balandraud X., Grediac M., Stanciu S., **Abrudeanu M.**, 2014, Characterization of the mechanical dissipation in shape-memory alloys during stress-induced phase transformation; *Journal of Materials Science* 49, 701-709,
- Bubulinca C., Balandraud X., Grediac M., Stanciu S., **Abrudeanu M.**, Plaiasu A.G., Dicu M.M., Nitu EL2013: Study of Cu-Al-Be shape memory alloy amplitude variation of temperature with the infrared camera, Journal of Optoelectronics and Advanced Materials, , Volume: 15, Issue: 5-6, 544-549,
- Dicu M.M., **Abrudeanu M.**, Moga S., Bubulinca C., Plaiasu A. G., 2013, Researches concerning the titania coatings formed on titanium by plasma electrolytic oxidation, Optoelectronics and Advanced Materials - rapid communications, Volume: 7, Issue: 5-6, Pages: 402-405.
- Radutoiu N., Alexis J., Lacroix L., **Abrudeanu M.**, Petit J.A., 2013, Study of the influence of the artificial ageing temperature on the AA2024 alloy microstructure, Key Engineering Materials, Volume: 550, 115-125,
- Radutoiu N., Alexis J., Lacroix L., **Abrudeanu M.**, Petit J.A., 2013 Application of Kelvin probe Force Microscopy (KFM) to evidence localized corrosion of over-aged aeronautical 2024 aluminum alloy, Key Engineering Materials, Volume: 550, 127-134.
- Radutoiu N., Lacroix L., Joel A., **Abrudeanu M.**, Petit J.A., Rizea V., Vulpe S., 2013: The Evolution of the Microstructure of AA2024 Aluminum Alloys as a Function of the Artificial Ageing Temperature, REVISTA DE CHIMIE, Volume: 63, Issue: 12, 1257-1260.;
- Vulpe S.C., **Abrudeanu M.**, Ohai D., Plaiasu A.G., Radutoiu N., 2012, The Influence of the Thermal Cycling on Grains Size of the Nickel-based Alloys, Revista de Chimie, Volume: 63, Issue: 11, 1112-1115, Published: NOV 2012;
- Vulpe S.C., **Abrudeanu M.**, Ohai D., Plaiasu A.G., Rizea V., Radutoiu N., 2012, The Influence of the Thermal Transient Regime on Grain Size at Nickel-based Alloys, Revista de Chimie, Volume: 63, Issue:10, 1026-1030.
- Radutoiu N., Alexis J., Lacroix L., Petit J.A., **Abrudeanu M.**, Rizea V., Vulpe S., 2012: of the Over-ageing Treatment on the Mechanical Properties of AA2024 Aluminum Alloy, Revista de Chimie, Volume: 63, Issue: 10, 1042-1045,
- Dicu .M., **Abrudeanu M.**, Moga S., Negrea D., Andrei V., Ducu C. 2012, Preparation of ceramic coatings on titanium formed by micro-arc oxidation method for biomedical application, Journal of Optoelectronics and Advanced Materials, Volume: 14, Issue: 1-2, 125-130, ;
- Florina Constantin, Jean-Pierre Millet, **Mărioara Abrudeanu**, Adriana Gabriela Plaiasu, 2011: Influence of a cooling liquid on the corrosion behaviour of Al-Mn alloy, Revue Roumaine de Chimie, ISSN 0035-3930, 56, 9, 917-921.
- Florina Constantin, Jean Pierre Millet, **Mărioara Abrudeanu**, Claudiu Constantin Ionescu, 2011, *Corrosion behaviour of the "sandwich" material AISi/AlMn/AISI in contact with an inhibited cooling liquid*, Revista de Chimie, ISSN 0034-7752, 62, 12, 1157-1161.
- Claudiu Constantin Ionescu, Pierre Ponthiaux, **Mărioara Abrudeanu**, François Wenger, Florina Constantin, 2011 *A comparative study on tribocorrosion of two Ni - Cr model alloys in a solution of boric acid and lithium hydroxide*, Revista de Chimie, ISSN 0034-7752, 62, 11, 1077-1084.
- Claudiu Constantin IONESCU, **Mărioara ABRUDEANU**, Pierre PONTIAUX, François WENGER, 2011, *Effect of normal force on tribocorrosion behaviour of Ni - 30Cr model alloy in LiOH - H3BO3 solution*, Revue Roumaine de Chimie, ISSN 0035-3930, 56, 9, 907-915, .
- M Dicu, A Matei, **M Abrudeanu**, C Ducu , 2011: Synthesis and properties of the porous titania coatings formed on titanium by plasma electrolytic oxidation for biomedical application, Journal of Optoelectronics and Advanced Materials, vol.13, nr.3, 318-325

- N. Halem, **M. Abrudeanu** and G. Petot-Ervas, mai 2011 Al effect in transport properties of nickel oxide and its relevance to the oxidation of nickel, *Materials Science and Engineering: B*, ELSEVIER, ScienceDirect,176, 13, 1002-1009;
- N Boicea, **M Abrudeanu**, C Ducu, V Malinovski, I Ciuca, 2009, .: Researches regarding the influence of the oxinitrocraburizing treatment over the wear resistance of the X153 CrMoV12 Steel, *Metalurgia international*, vol XIV, s.i. nr. 3, 133-136, ISSN 1582-2214
- MM Pasare, MI Petrescu, **M Abrudeanu**., 2008: The heat treatment and P effect on Ni-P/SiC coatings hardness, *Rev. Roum. Chim*, 53(7) , p.563-567, ISSN 00347752, FI.0.262
- Alice Dinu, **M. Abrudeanu**, 2007,: Stress Corrosion Cracking Zircaloy-4 Claddings in Iodine Containing Environments, *Revista de Chimie*, Nr. 8, p.751-754, ISSN 00347752
- M Pasare, JP Bonino, **M Abrudeanu**, 2007 Studiul influentei concentratiei electrolitului asupra compozitiei alaijului Nip/SiC, *Rev. Chimie* , nr.12, .1190-1193, ISSN 00347752
- ARizea, G. Petot-Ervas, C. Petot, **M. Abrudeanu**, M.J. Graham, G.I. Sproule, 2007: Transport proprieties of yttrium-doped zirconia – Influence of kinetic demixing, *Solid State Ionics* 177, issue 39-40, .3417-3424,
- J. Kouam, T.Ait-Ahcene, A.G. Plaiașu, **M. Abrudeanu**, A. Motoc, E. Beche, C. Monty, 2007:Characterisation and properties of ZnO based nanopowders prepared by solar physical vapor deposition(SPVD), *Solar Energy*, 2007, on line www.sciencedirect.com ,Solid State Ionics 177/ 3417-3424
- V Malinovski, C Ducu, G Plaiașu, **M Abrudeanu**, S Moga, RR Piticescu, C Monty, 2007, Microstructural analysis of ZnO powders with different concentrations of Al dopant obtained means hydrothermal synthesis, E- MRS Fall Meeting Symposium B, on-line Journal of E-MRS Fall Meeting 2007, [Http:// Science 24.com/paper/11988](http://Science24.com/paper/11988)
- Alice Dinu, **M. Abrudeanu**, M. Radulescu, L. Velciu, 2006, “Electrochemical Studies on Stress Corrosion Cracking of Incoloy-800 in Caustic Solution, Part II: Pre-cracking samples, *Nuclear Technology&Radiation Protection*, NT&RP, Vol. XXI, No. 1, Pp34-40, YU ISSN 1451-3994
- Trifa, G.Montavon, Ch.Coddet, C Nardin, **M Abrudeanu**, , 2005, Geometrical features of plasma sprayed deposits and their characterization methods, *Materials Characterization*,Vol. 54, 157-175, Elsevier,
- **M. Abrudeanu**: A. Gleizes 2005: From a French–Romanian Master to a European Research-Master with double, 3rd Balkan Region Conference on Engineering Education, Conference Proceedings: Advancing Engineering Education, proc ISI, 28-29,
- P.Archambault, **M Abrudeanu**,1993, Influence de l'oxydation et de l'état structural sur les propriétés thermo-physiques d'un alliage a base de zirconium, *Journal of Nuclears Materials*, 200, 2, 162-168.

Relevant participation in international events

- Z.Halem, N.Mahiouz, N.Halem, **M.Abrudeanu**, G.Petot-Ervas : General approach of matter transport processes at elevated temperature during the growth of oxide scales on alloys. Oxidation of CeO₂-coated Ni, Eurocorr 2017, Praga, International Corrosion Committee diploma for best poster
- Z. Halem, Bouira University/DZ; N. Halem, Tizi-Ouzou University/DZ; S. Chekroude, Constantine Univerity/DZ; **M. Abrudeanu**, Pitesti University/RO; G. Petot-Ervas, Ecole Centrale des Mines, Paris/F: Influence of CaO and CeO₂ coatings on the oxidation of nickel polycrystals, EUROCORR 2019
- C Tudora, **M Abrudeanu**, S Stanciu, D Anghel, G Plaiașu V Rizea, I Stirbu, R Cimpoeșu, M Coteață : Preliminary results on microstructure profile of cu-based shape memory alloy, IOP conference series: materials science and engineering, volume 572
- A.Dinu, **M. Abrudeanu** .MI. Petrescu, 2009 : Stress corrosion cracking of hydrided zircaloy-4 valddings in iodine caontaining environments, EUROCOR, Nice,SS11-O-8353, p.1981, www.eurocorr.org .
- N Halem, **M Abrudeanu**, G Petot ,Ervas, 2009, : Al or Cr effect in Y transport of Nickel Oxide – Influence on Nickel Oxidation, EUROCOR Nice, SS 03-P-8053, p. 85, www.eurocorr.org.
- **M Abrudeanu**, A Dinu, M Petrescu, N Petrescu, 2008: Stress corrosion cracking in nuclear fuel cladding, The 32nd Annual Congres of of the American Roamanian Academy of Arts and Sciences, Boston, Proceedings, Politechnic International Press, Montreal Quebec.ISBN 978-2-553-01424-6, 214-217
- MM.Pasare, MI Petrescu, **M Abrudeanu** 2007: Wear resistant electroplated micocomposite coatings, The 31nd Annual Congres of of the American Romanian Academy of Arts and Sciences, Boston, Proceedings, Politechnic International Press, Montreal Quebec.ISBN 978-2-553-01424-6,174-177.
- Magdalena Sovar, Catalin Ducu, **Marioara Abrudeanu**, Ioana Demetrescu, 2007, Improving the quality of electrochemical phosphate deposition on Co-Cr bioalloy, The International Conference on Structural Analysis of Advance Materials (ICSAM 2007), CD, TOPIC 1, Biomaterials, No.3, Patras, Grecia.

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- **M Abrudeanu**, J Philibert, 1999, Les NTIC au service de l'enseignement en collaboration internationale, Conferinta internationala « Journées TIC », Nice, 10-11
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