



Curriculum vitae

INFORMAȚII PERSONALE

Abrudeanu Mărioara

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Sexul F | Naționalitatea Româna

Profesor universitar

EXPERIENȚA PROFESIONALĂ

- 1 oct.2023 –in prezent:profesor univ. conducator de doctorat , Scoala doctorala de Stiinta si Ingineria Materialelor, Facultatea de Stiinta si Ingineria Materialelor, Universitatea Nationala de Stiinta si tehnologie POLITEHNICA Bucuresti
- 1 oct.2015-1 oct 2023 Profesor universitar, conducator de doctorat , Scoala Doctorala Interdisciplinara, Facultatea de Mecanica si Tehnologie, Universitatea din Pitesti
- Oct 1997- oct 2015 Profesor, Departamentul de Fabricatie si Management Industrial, Facultatea de Mecanica si Tehnologie, Universitatea din Pitesti
- Conducator de doctorat in domeniul Ingineria materialelor: 10 teze de doctorat elaborate i n cotutela internationala cu: Scoala Centrala din Paris, INSA Lyon, Universitatea din Toulouse-ENIT, Universitaeta din Metz, Universitatea Blaise Pascale Clermont Ferrnand, Universitatea Bordeaux Montaigne.
- 2000-2006: 2 luni/an profesor invitat la Institutul National de Stiinte Apicate din Lyon (INSA Lyon), Curs: Coroziune la temperaturi inalte.
- Crearea Centrului de formare continua, 2002
- Crearea la Universitatea din Pitesti, in colaborare cu BECO –AUF a Centrului de performanta academica 2014.
- oct 1993-oct 1997 Conferentiar , Facultatea de Mecanica si tehnologie , Universitea din Pitesti
- 1993: initiere si coordonare in colaboratre cu Ecole Centrale Paris , modul francofon „*Corrosion et protection contre la corrosion*”
- ian-martie 1994 : Cercetator pe program PECO la Scoala Nationala Superioara de Chimie (ENSIACET)-Insitul Politehnic Toulouse, Laboratorul de Materiale in straturi subtiri, raport de cercetare „*Chemical deposits as vanadium carbonitration vapors, on steel support, starting from organometallic precursors*”.
- 1994- Initiatoare a masterului in limba franceza „Stiinta si Tehnologia Materialelor, cu colaborarea a 8 universitati si „grandes ecoles „franceze. Din anul 2004, absolventilor acestui master li se acorda diploma demaster de cercetare a Institutului Politehnic din Toulouse/Universitatea din Toulouse.
- oct 1972- oct 1993 Asistent universitar si sef de lucrari in Cateda de Tehnologie si Management, Universitatea din Pitesti/Institutul de Invatamant Superior Pitesti
- 1992- Cercetator invitat pe post rosu al Centrului National de Cercetaru Stiintifice al Frantei (CNRS) laInstitutul de Materiale , Universitatea Paris Sud -raport de cercetare „*Study on obtaining through oxidation a proper surface for the use of Fe-Cr-Al as metallic support for a catalytic filter*”
- Cursuri predate in limba romana si franceza, in domeniile stiinta materialelor, tehnologie si coroziune.
- aug 1972-sept 1975 stagii la Uzina de Autoturisme Pitesti-Serviciul Metalurg sef:inginer tehnolog, sef grupa tehnologi, responsabil colectiv proiectare. Cursuri predate la UPIT in limba romana si/sau franceza, in domeniile stiinta materialelor, tehnologie si coroziune.

EDUCATIE SI FORMARE

- 1963-1967 Liceul „Decebal” Deva
1967-1972 Facultatea de Metalurgie , Institutul Politehnic Bucuresti
1991 Diploma de doctor , Institutul Politehnic Bucuresti
Dec 1991-aug 1992 : stagiul post doctoral (9 luni), cu bursa a guvernului francez, la Institut National Polytechnique de Lorraine, Université Nancy I, Ecole des Mines de Nancy, Laboratoire de Science et Génie des Matériaux Métalliques. Raport de stagiul : *L'influence de l'oxydation à haute température sur la structure et les propriétés de transfert thermique de l'alliage Zircaloy-4*
Mai 1992. Stagiul de formare continua (3 saptamani) la Universitatea Mreseille 2 Luminy-certificat „*Materiale, suprafete, interfete si straturi subtiri*”
1992-1996. Stagii la Scoala Centrala Paris, Universitatea Paris Nord, Univeristatea Autonoma Barcelona-Institutul de Materiale, CESI-Paris, Universitatea Wolverhampton, Odense University.

COMPETENTE PERSONALE

Limba materna : romana

Alte limbi cunoscute	Intelegere		Vorbire		Scriere
	Ascultare	citire	participare la conversatie	Discurs oral	
Franceza	C2	C2	C2	C2	C2
Engleza	B1	A2	A1	A1	B1
Rusa	B1	B1	B1	A1	A2

ALTE INFORMATII

Alte activitati si responsabilitati

- Director Relații Internaționale, Universitatea din Pitesti , 1997-2000;
- Prorector pentru cercetare, relații internaționale si formare continua, Universitatea din Pitesti 2000-2004;
- Presedinta a Consiliului stiintific, Universitatea din Pitesti 2000-2004;
- Presedinta a Fundației Universitare Pitesti, 1992-2015
- Prorector pentru cercetare si competitivitate , 2012-2015

- Membra CNADTCU 2011-2015
- Membra a Consiliului National CNCIS 2003-2008
- Membru titular al Academiei de Stiinte Tehnice din Romania
- Membra CRIFST - Academia Romana,2011
- Membra CREDING,2015
- Membra a comitetului pentru proiecte francofone ,Cancun-Mexic,2014

Distinctii, aprecieri

- Decorația "Palme Academiques" in grad de cavaler acordata de Adunarea Naționala a Franței, 1996
- Medalia pentru cercetare, CNCIS, 2008
- Diploma « Rayonnement -Honneur – Prestige » acordata pentru contribuția activa la imaginea pozitiva a Romaniei, 2019
- Diploma de « Merit stiintific » acordata de CRIFST-Academia romana pentru cercetari privind mortarul roman, 2025

LUCRARI

Carti in edituri centrale

- 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

Manuale

- 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, Analyse, comprendre, résoudre un problème de corrosion. Rappels de cours. Exercices et études 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 Gavrița, 1997, Durabilitate și coroziune- tehnici de laborator, Ed. Pygmalion Pitești, ISBN ISBN 973-96591-8-7
- M. Abrudeanu, 1995, Coroziune si protectie anticoroziva, 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

Articole cotate ISI publicate dupa 2010

- Comparative Study on Heat Transfer Through Three Candidate Alloys for Fuel Element Cladding. M Abrudeanu, et al. Appl. Sci. 2026, 16(2), 800; <https://doi.org/10.3390/app16020800>
- Assessment of Volatile Radionuclide Release in the ALFRED Lead-Cooled Fast Reactor, A. Ivan, M. Tarantino, M. Abrudeanu, D. Diaconu, and D. Gugiu, Journal of Nuclear Engineering, vol. 6, no. 3, p. 36, Sept. 2025, <https://doi.org/10.3390/jne6030036> (FI 1.2- Q3)
- Trace-level impurity quantification in lead-cooled fast reactors using ICP-MS: Methodology and challenges, A. M. Ivan, M. Abrudeanu, M. Tarantino, D. Gugiu, D. Diaconu, and D. Mirita, Reviews in Analytical Chemistry, vol. 44, no. 1, p. 20250088, Aug. 2025, <https://doi.org/10.1515/revac-2025-0088> (FI 3.8- Q2)
- Effects of Prior Chemical Treatment in a Nitric Acid, and a Weak Perpendicular to the Surface Heterogeneous Magnetic Field on the Corrosion behavior of AISI 316L Austenitic Stainless Steel, Intended for Use as an Implant, in Chloride Solution, Djedjiga Ben Abdesselam, N. Zazi, Hellal Fatah, Mărioara Abrudeanu Denis Negrea, Jean-Paul Chopart, 2025, Protection of Metals and Physical Chemistry of Surfaces 60(6):1183–1199, DOI:10.1134/S2070205124702435
- Materials Radiocarbon Dating of Mortar Fragments from the Fresco of a Romanian Monastery: A Field Study, Marioara Abrudeanu, Corina Anca Simion, Adriana Elena Valcea, Maria Valentina Ilie, Elena Alexandra Ispas, Maria Loredana Marin, Dragos Alexandru Mirea, Dan Cristian Olteanu, Cristian Manailescu, Alexandru Razvan Petre, Denis Aurelian Negrea, Sorin Georgian Moga, Izabela Maris, Dorin Grecu, Gheorghe Garbea, Flavio Nicolae Finta, Mircea Ionut Petrescu, 2025, 18(5):1149. doi: 10.3390/ma18051149, FI 3.1, Q1

- Evaluation of the Zirconium Hydride Morphology at the Flaws in the CANDU Pressure Tube Using a Novel Metric", A. Ion Jinga, M. Abrudeanu, V. Radu, Al. Nitu, L. Stoica, D. Toma, M. I. Petrescu, "MDPI – Applied Sciences 2025, Vol.15, Issue, indexat WOS, publicat 15.01.2025, <http://doi.org/10.3390/app1502078>, IF 2.5.
- Experimental Research on the Influence of Repeated Overheating on the Thermal Diffusivity of the Inconel 718 Alloy; Elisabeta Roxana Ungureanu Arva, Marioara Abrudeanu, Denis Aurelian Negrea, Andrei Galatanu, Magdalena Galatanu, Alin-Daniel Rizea, Daniel-Constantin Anghel, Mihai Branzei, Alexandra IonJinga and Mircea Ionut Petrescu, Appl. Sci. 2024, 14, 8574. <https://doi.org/10.3390/app14188574> <https://www.mdpi.com/journal/applsci>
- The Influence of Cyclic Thermal Shocks at High Temperatures on the Microstructure, Hardness and Thermal Diffusivity of the Rene 41 Alloy, Elisabeta Roxana Ungureanu Arva; Denis Aurelian Negrea; Andrei Galatanu; Magdalena Galatanu; Sorin Georgian Moga; Daniel-Constantin Anghel; Mihai Branzei; Livia Stoica; Alexandra Ion Jinga; Mircea Ionut Petrescu; Corneliu Munteanu; Marioara Abrudeanu, Materials 2024, Volume 17, Issue 10, 2262; <https://doi.org/10.3390/ma17102262>; IF 3,4, Q2
- The Characterization of a Fragment of a Medieval Fresco from Corbii de Piatră Cave Church, Vâlcea, A. E.; Grecu, D.; Maris, I.; Negrea, A. D.; Cimpoesu, N.; Giugea, D.; Istrate, B.; Munteanu, C.; Moga, S. G.; Anghel, D.-C, Abrudeanu, M: Applied Sciences, 2023, 13, 4933, 2023; <https://doi.org/10.3390/app13084933>. IF, 2,7, Q2
- Interdisciplinary Research on Medieval Fresco Subjected to Degradation Processes in the Corbii de Piatra Cave Church, Vâlcea, A. E.; Maris, I.; Negrea, A. D.; Cimpoesu, N.; Garbea, G.; Grecu, D.; Moga, S. G.; Istrate, B.; Finta, F. N.; Rizea, A. D.; Abrudeanu, M: Materials, 2023, 16, 5257; <https://doi.org/10.3390/ma16155257>. IF 3,4, Q2
- 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>, 2021 FI 3,748
- 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_2021 <https://doi.org/10.3390/ma14164494>
- The influence of thermal shocks on the thermophysical properties of the zircaloy-4, D C Anghel, AE Rosu, G Neacsu, IA Popa, M Branzei, V Rizea, CM Ducu, MM Dicu, AD Rizea, E Ungureanu, M Abrudeanu, 2019, Revista de chimie , Bucharest, 70, 2, p 575-577. <https://doi.org/10.37358/RC.19.2.6958>
- Activation of CuAlNi SMAs using solar energy Cristian Ion Tudora, Nicanor Cimpoesu , Sergiu Stanciu, Daniel Constantin Anghel, Gabriela Adriana Plaiasu, Margareta Coteata , Ana-Maria Roman , Ramona Cimpoesu , Marioara Abrudeanu , Volume 1, Issue 1, 0001-0005 , 2019, jesi.astr.ro
- The influence of the high temperatures thermal shocks on the microstructure and harness of zircaloy-4 alloy A. Popa, A. E. Rosu, G. Neacsu, D. C. n 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, <https://doi.org/10.37358/RC.18.7.6389>
- Chemical redistribution and microstructural evolution of ODS Fe-Cr powders during mechanical alloying, M. Stanciulescu, M. Abrudeanu, C. Ducu, A.G. Plaiasu, 2018,., Revista de Chimie (Bucuresti), 69, nr.2, p.495-498,
- The study of the mechanical properties of small tubes made from Oxide Dispersion Strengthened steel by using the Ring Tension Tests , Al. Nițu, V. Radu, E. Ungureanu, M. Abrudeanu, 2018, Revista de chimie ISSN 0034-7752, vol. 69, nr 11/2018 (accept de publicare nr.51/18.04.2018); <https://doi.org/10.37358/RC.18.11.6676>
- Dissolution Behaviour of Alloying Elements Into Vanadium Matrix During Mechanical Milling , Madalina Stanciulescu, Mărioara Abrudeanu, Andrei Galatanu, Paula CARLAN Maria Mihalache., Rev.Chim.(Bucharest)68.No. 5 ,2017, pag 1109-1113, <https://doi.org/10.37358/RC.17.5.5622>
- Influence of CeO₂ Thickness Layer Deposited on the 945A Steel, Substrate Concerning the Corrosion Process, E S Barca, L C Trinca, M Filipescu, M DINESCU ,A-G Plaiasu, M Abrudeanu, R Leata , 2016 REV.CHIM.(Bucharest),67.No., f.i 0.956, <https://revistadechimie.ro/Articles.asp?ID=4837>
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- The behavior of ZrO₂/20%Y₂O₃ and Al₂O₃ coatings deposited on aluminum alloys at high temperature regime G.L. Pintilei V.I. Crismarub, M. Abrudeanu, C. Munteanu, E.R. Baci, B. Istrate B, N. Basescu, 2015 :, Applied Surface Science, 352, 178–183, <https://doi.org/10.1016/J.APSUSC.2015.04.108>

- The influence of ZrO₂/20%Y₂O₃ and Al₂O₃ deposited coatings to the behavior of an aluminum alloy subjected to mechanical shock , G.L. Pintilei, V.I. Crismaru B, M. Abrudeanu, C. Munteanu, D. Luca, B. Istrate, 2015 , Applied Surface Science, 352 ,169–177, <https://doi.org/10.1016/j.apsusc.2015.05.111>
- Isothermal Oxidation of UO₂ Fuel Pellets in Steam I Dumitrescu, Iulia Maria; Mihalache, Maria; Abrudeanu, Marioara, 2015 .:Revista de chimie Volume: 66 Issue: 2, 290-293, <https://www.revistadechimie.ro/Articles.asp,ID=4414>
- Fuel Pellets Phase Composition Evolution During Steam or Air Oxidation,I.Dumitrescu,, M .Mihalache, A Dinu,; Meleg, T Ohai, D, Abrudeanu, M,2015, REVISTA DE CHIMIE Volume: 66 Issue: 3, 316-319. <https://revistadechimie.ro/Articles.asp,ID=4420>
- Study of the plasma deposition of Al₂O₃ powder on an internal combustion engine piston, Geanina Laura Pintilei, Marioara Abrudeanu, Corneliu Munteanu, Dragomir-Stanciu Daniel, Ionut Vasile Crismaru, 2015”, Procedia Technology 19, 276 – 283, <https://doi.org/10.1016/j.protcy.2015.02.040>
- Study of the plasma deposition of Al₂O₃ powder on an internal combustion engine piston, E. S. Barca, A. G. Plaiasu, M. Abrudeanu, B. Istrate, D. Luca, C. Munteanu 2015 , Journal of optoelectronics and advanced materials, Vol. 17, No. 9-10, 1522 – 1527, https://www.researchgate.net/publication/290045595_Study_of_the_plasma_deposition_of_Al2O3_powder_on_an_internal_combustion_engine_piston
- E Comparative study of morphology and composition on oxide nanopowders elaborated by SPVD S Bârcă, V Rizea, M Abrudeanu, A G Plaiasu, B Istrate and C Munteanu , 2015: " Materials Science and Engineering 95 012028 [doi:10.1088/1757-899X/95/1/012028](https://doi.org/10.1088/1757-899X/95/1/012028)
- 2014Elaboration and nanostructural study of pure and Al doped ZnO nanopowders G.Plăiașu, M. Abrudeanu, M.M.Dicu, C.Monty, Journal of Optoelectronics and Advanced Materials,, 16 (9-10), 1116-1120
- Cooper oxides nanopowders: synthesis by S.P.V.D. and characterisation Adriana-Gabriela Plăiașu, Carmen Mihaela Topală, Alice Dinu, Mărioara Abrudeanu, Claudiu Suțan , 2014,.; Revista de Chimie, 66.no.10, 1636-1638., <https://revistadechimie.ro/Articles.aspID=4682>
- Characterization of the mechanical dissipation in shape-memory alloys during stress-induced phase transformationBubulinca, C.; Balandraud, X.; Grediac, M.; S. Stanciu, Abrudeanu M, 2014 , Journal of materials science volume: 49 issue: 2 , 701-709 , DOI:[10.1007/s10853-013-7751-5](https://doi.org/10.1007/s10853-013-7751-5)
- Synthesis and microstructural characterization of CuO nanoparticles elaborated by S.P.V.D.Adriana-Gabriela Plăiașu, Alice Dinu, Mărioara Abrudeanu, Vasile Rizea, Denis Negrea, Dionisie Bojin, Marius Enăchescu, Claude Monty, Corneliu Munteanu, 2014, Environmental Engineering and Management Journal, 763-1038,
- Study of Cu-Al-Be shape memory alloy amplitude variation of temperature with the infrared camera, Journal of Optoelectronics and Advanced Materials, Bubulinca C., Balandraud X., Grediac M., Stanciu S., Abrudeanu M., Plaiasu A.G., Dicu M.M., , Journal of Optoelectronics and Advanced Materials, , Volume: 15, Issue: 5-6, 544-549, DOI:[10.1016/j.jallcom.2012.02.006](https://doi.org/10.1016/j.jallcom.2012.02.006)
- Researches concerning the titania coatings formed on titanium by plasma electrolytic oxidation,Dicu M.M., Abrudeanu M., Moga S., Bubulinca C., Plaiasu A. G., 2013, Optoelectronics and Advanced Materials- rapid communications, Volume: 7, Issue: 5-6, Pages: 402-405. chrome-extension-rc.inoe.ro/articles/researches-concerning-the-titania-coatings-formed-on-titanium-by-plasma-electrolytic-oxidation/fulltext
- Study of the influence of the artificial ageing temperature on the AA2024 alloy microstructure Radutoiu N., Alexis J., Lacroix L., Abrudeanu M., Petit J.A., 2013, , Key Engineering Materials, Volume: 550, 115-125, DOI:[10.4028/www.scientific.net/KEM.550.115](https://doi.org/10.4028/www.scientific.net/KEM.550.115)
- Application of Kelvin probe Force Microscopy (KFM) to evidence localized corrosion of over-aged aeronautical 2024 aluminum alloy Radutoiu N, Alexis J., Lacroix L., Abrudeanu M., Petit J.A.,2013, Key Engineering Materials, Volume: 550, 127-134. <https://www.scientific.net/KEM.550.127>
- The Evolution of the Microstructure of AA2024 Aluminum Alloys as a Function of the Artificial Ageing Temperature, Radutoiu N., Lacroix L., Joel A., Abrudeanu M., Petit J.A., Rizea V., Vulpe S., 2013: REVISTA DE CHIMIE, Volume: 63, Issue: 12, 1257-1260.; <https://scispace.com/papers/the-evolution-of-the-microstructure-of-aa2024-aluminum-3awt1wnfqx>
- The Influence of the Thermal Cycling on Grains Size of the Nickel-based Alloys , Vulpe S.C., Abrudeanu M., Ohai D., Plaiasu A.G., Radutoiu N.,2012, , Revista de Chimie, Volume: 63, Issue: 11, 1112-1115, Published: NOV 2012; https://www.researchgate.net/publication/267688314_The_Influence_of_the_Thermal_Cycling_on_Grains_Size_of_the_Nickel-based_Alloys
- The Influence of the Thermal Transient Regime on Grain Size at Nickel-based Alloys , Vulpe S.C., Abrudeanu M., Ohai D., Plaiasu A.G., Rizea V., Radutoiu N., 2012, , Revista de Chimie, Volume: 63, Issue:10, 1026-1030, <https://www.revistadechimie.ro/Articles.asp?ID=3467>.
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- Preparation of ceramic coatings on titanium formed by micro-arc oxidation method for biomedical application Dicu .M., Abrudeanu M., Moga S., Negrea D., Andrei V., Ducu C. 2012, , Journal of Optoelectronics and Advanced Materials, Volume: 14, Issue: 1-2, 125-130, ; <https://www.researchgate.net/publication/286187716>
- Influence of a cooling liquid on the corrosion behaviour of Al-Mn alloy Florina Constantin, Jean-Pierre Millet, Mărioara Abrudeanu, Adriana Gabriela Plaiasu,2011.: Revue Roumaine de Chimie, ISSN 0035-3930, 56, 9, 917-921.
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- A comparative study on tribocorrosion of two Ni- Cr model alloys in a solution of boric acid and lithium hydroxide, Claudiu Constantin Ionescu, Pierre Ponthiaux, Mărioara Abrudeanu, François Wenger, Florina Constantin,2011 Revista de Chimie, ISSN 0034-7752, 62, 11, 1077-1084.
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- Al effect in transport properties of nickel oxide and its relevance to the oxidation of nickel, N. Halem, M. Abrudeanu and G. Petot-Ervas, mai 2011 Materials Science and Engineering: B, ELSEVIER, ScienceDirect,176, 13, 1002-1009; <https://doi.org/10.1016/j.mseb.2011.05.035>

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