



Curriculum vitae Europass



Informații personale

Nume / Prenume **VLAD MARIA**
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Naționalitate(-tăți) Română
Data nașterii 03.12.1951
Sex F

Locul de muncă vizat / Domeniul ocupațional

Universitatea "Dunărea de Jos" din Galați

Experiența profesională

Perioada 1978 – Prezent

Funcția sau postul ocupat

Profesor universitar doctor
Conferențiar doctor
Sef lucrări doctor
Asistent

Activități și responsabilități principale

Cercetare fundamentală și aplicativă, programe internaționale, învățământ și cercetare

Cursuri:

- Elaborarea și turnarea aliajelor neferoase, din 1983-prezent;
- Procese unitare în metalurgie, din anul 1991-1999;
- Tehnologii metalurgice, în perioada 1983-1990;
- Prelucrarea și valorificarea deșeurilor nemetalice, din anul 2000- prezent;
- Bazele proceselor de prelucrare și valorificare a deșeurilor din anul 2000- prezent;

Acorduri de colaborare bilaterală pentru stagii didactice pentru studenți și cadre didactice Erasmus / Socrates cu Katholieke Universiteit Leuven, Belgia, perioadele 2005-2009, 2009-2014

Cercetare fundamentală și aplicativă în direcțiile:

- Obținerea și caracterizarea a noi materiale metalice cu proprietăți fizico-mecanice speciale, prin aliere microalierea metalelor sau a aliajelor neferoase;
- Studiul proprietăților fizico-chimice și termodinamice a diferite sisteme binare, ternare sau multi-componente, care stau la baza elaborării aliajelor neferoase;
- Managementul mediului și al deșeurilor;
- Realizarea de straturi protectoare pe suport metalic, prin imersie în topituri, prin metode chimice sau electrochimice și studiul rezistenței la coroziune în medii puternic corozive și la temperaturi ridicate
- Reciclarea materialelor re folosibile din industrie sau a deșeurilor municipale, tratarea apelor reziduale, Programe internaționale: Proiecte Europene COST

Numele și adresa angajatorului

Universitatea Dunărea de Jos din Galați, Facultatea de inginerie, Str.
Domnească nr 47, 800008 Galați

Tipul activității sau sectorul de activitate	Învățământ universitar cercetare
Perioada	1998 –present Profesor 07.12.2009: Conducator de doctorat 01.09.2014-01.09.2016: Profesor asociat la Facultatea TSUEI 01.09.2014-01.09.2016: Profesor la Facultatea de Inginerie 1998– 01.09.2014: Profesor la Facultatea de Ingineria Materialelor si a Mediului 1995 -1998: Conferențiar la Facultatea de Metalurgie și Știința Materialelor; 1983 -1995: Șef de lucrări Facultatea de Metalurgie și Știința Materialelor; 1978 -1983: Asistent universitar la Catedra Metalurgie, Facultatea de Mecanica; 01.10.1998 ÷ 14.12.1998: Activități didactice si de cercetare in domeniul Ingineria materialelor, in cadrul unui program Phare (Individual Mobility Grant 97 RO 1042) la Faculdade de Ciencias e Tecnologia, Departamento de Ciencia dos Materiais, Universidade NOVA de Lisboa Portugal; 19.04.1997 ÷ 30.05.1997 Profesor asociat la Mechanical Engineering Department of Hubei Polytechnic University, China, in cadrul Programului bilateral dintre Universitatea din Galați si Universitatea Politehnica Hubei. 17.11.1992÷ 28.02.1993: Activități de cercetare in domeniu metalelor si aliajelor neferoase la Facultatea de Metalurgie din Universitatea Miskolc Ungaria.
Educație și formare	
Perioada	19.04.1997 ÷ 30.05.1997
Calificarea / diploma obținută	Certificat Academic de la Hubei Polytechnic University China
Numele și tipul instituției de învățământ / furnizorului de formare	Hubei Polytechnic University, China
Perioada	1989 - 1994
Calificarea / diploma obținută	Doctor în Științe Inginerești al Universității „Dunărea de Jos ”Galați, domeniul Metalurgie neferoasa si prepararea minereurilor. Titlul tezei: Cercetări privind microalierea aliajelor cu baza cupru
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea”Dunărea de Jos ”Galați
Perioada	1970-1975
Calificarea / diploma obținută	Diploma de inginer, Facultatea de Metalurgie, Specializarea: Metalurgia metalelor neferoase
Numele și tipul instituției de învățământ / furnizorului de formare	Institutul Politehnic București, România
Aptitudini și competențe personale	

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Limba(i) maternă(e) Română
 Limba(i) străină(e) cunoscută(e)

Înțelegere		Vorbire		Scriere	
Ascultare		Citire		Exprimare scrisă	
Participare la conversație		Discurs oral			
Engleza	C1	C1	C1	C1	C1
Franceza	A2	A2	A2	A2	A2

Autoevaluare
 Nivel european (*)

Competențe și abilități sociale

Spirit de echipă.
 - Adaptabilitate bună de lucru în medii multiculturale dobândită din experiența de lucru în învățământ și cercetare la universități din Ungaria, Portugalia, China, și Belgia.
 - Capacitate bună de comunicare dobândită din experiența de participare în proiecte naționale și europene ca și coordonator sau membru în echipe de cercetare

Competențe și aptitudini organizatorice academice:

Management

- Conducător de doctorat, 2009-prezent;
- Membru în Senatul Universității "Dunărea de Jos" Galați din anul 2005-2012;
- Membru în Consiliului Profesorat al Facultății de met. știința mat și med. din 1983 – 2015
- Director departament Ingineria Mediului și Sisteme Tehnologice Metalurgice, din 2011-2015
- Șef catedra „Ingineria Mediului și Materiale”, din 2006-2011;
- Director al Centrului de Cercetare „Calitatea Materialelor și a Mediului”, perioada 2005 -2006;
- Prodecan al Facultății de Metalurgie și Știința Materialelor, 1999-2000;
- Secretar științific, Facultatea de Metalurgie și Știința Materialelor, 1996-1999;

Competențe și aptitudini tehnice

Dezvoltarea de noi cursuri tehnice, prezentarea de lucrări științifice la conferințe internaționale
 Competențe foarte bune în aparatură pentru studiul proprietăților fizico-chimice ale topiturilor metalice, studiul materialelor, spectrometrie, microscopie, etc.
 Membru în Comitetul Științific sau în Comitetul de organizare a unor conferințe internaționale
 Chairman la simpozioane, conferințe, workshopuri naționale și internaționale

Competențe și aptitudini de utilizare a calculatorului

Competențe tehnice foarte bune în lucrul cu calculatorul: Microsoft Office, Word, Excel,

Alte competențe și aptitudini

Membru al asociațiilor profesionale:
 - Membru al Balkan Environmental Association (BENA), din 2009-2011; www.gen.teithe.gr/~bena
 - Membru al Societatea Română de Chimie, din 1998, www.schr.org.ro
 - Membru al „Asociației Generale a Inginerilor din România” (A.G.I.R.); office@agir.ro
 Expertiza și recunoaștere națională și internațională:
 - Evaluator ARACIS – domeniul Ingineria mediului; www.fseromania.ro
 - Membru în Comisia Națională de Echivalare a Diplomelor (CNED-MECT)
 - Viziting professor la KU Leuven
 - Membru în Consiliu Profesorat al Facultății de Ingineria Materialelor și a Mediului;
 - Membru în Comisia pentru evaluarea și asigurarea calității;
 - Membru în comitetul de redacție al Revistei Analele Universității "Dunărea de Jos" Galați, Fascicula IX, Metalurgie și Știința, Materialele, Anul XVIII(XXIII), (http://www.cnscis.ro/2006_evaluare_rev.php);
 - Referent științific începând cu anul 2009 la Revista Metalurgia Internațional, cotată ISI www.isinet.com position <http://scientific.thomson.com/cgi-bin/jrnlst/jlresults.cgi>)
 - Referent științific începând cu anul 2009 la Revista Metalurgia; www.isinet.com
 - Referent științific la 12 teze de doctorat susținute în România.
 - Referent științific la două cărți din domeniul știința și ingineria materialelor și a mediului

Informații suplimentare

- 8 cărți publicate în edituri centrale, în domeniile: metale și aliaje neferoase și ingineria mediului
 - Premiul Traian Vuia al Academiei Române în anul 1987
 - 187 articole din domeniile: materiale, mediu, chimie
 - proiecte/granturi/contracte: 48

Anexe

1. Listă cărți publicate
2. Lista articole publicate
3. Lista proiecte/granturi/contracte

1. LISTA CARTI PUBLICATE

■ Carti publicate

1. Radu Tamara, **Vlad Maria**, Gelu Movileanu, Marius Bodor, **Managementul riscului de mediu**, ISBN 978-606-696-027-4 Editura Galati University Press, 2015, 315 pag.
2. **Vlad Maria**, **Managementul apelor industriale**, ISBN 978-973-627-424-4, Editura Fundatiei Universitatea "Dunărea de Jos" Galați, Romania, 2008, 163 pag.
3. **Vlad Maria**, Radu Tamara, **Metalurgia metalelor neferoase grele**, ISBN 973-627-127-7, Editura Fundatiei Universitare "Dunărea de Jos" Galați, Romania, 2004, 300 pag.
4. **Vlad Maria**, Varga Bela, Carcea Ion, Chiriac Alexandru, **Bazele elaborării aliajelor neferoase**, ISBN-973-9340-63-1, Editura LUX LIBRIS, Brașov, Romania, 1998, 229 pag.
5. **Vlad Maria**, **Advanced metallic materials**, ISBN 973-9732-03-1, Editura Macarie, Târgoviște, Romania, 1998, 117 pag.
6. Florea Oprea, **Vlad Maria**, **Procese unitare in metalurgie**, ISBN-973-9372-04-X, Editura Macarie, Târgoviște, Romania, 1998, 350 pag.
7. Chiriac Alexandru, **Vlad Maria**, **Teoria proceselor de formare**, ISBN-973-9499-32-5, Editura EVRIKA, Brăila, Romania, 1997, 237 pag.
8. Dragomir Ștefan, **Vlad Maria**, **Echipamente si instalatii pentru stocarea, procesarea si recuperarea deseurilor**, Editura Universitatea „Dunarea de Jos” Galati, Romania, 2001, 250 pag.

2. LISTA ARTICOLE

■ Publicatii in reviste ISI: 27

1. Stefan Catalin Pintilie, Laurentia Geanina Tiron, Andreea Liliana Lazar, **Maria Vlad**, Iulian Gabriel Birsan*, Stefan Balta*, *The Influence of ZnO/TiO2 Nanohybrid Blending on the Ultrafiltration Polysulfone Membranes*, MATERIALE PLASTICE, 55, No. 1, 2018, pag 54-62, <http://www.revmaterialeplastice.ro>, Impact Factor: 1,248
2. Laurentia Geanina Tiron, Stefan Catalin Pintilie, Andreea Liliana Lazar, **Maria Vlad**, Stefan Balta*, Marius Bodor, *Influence of Polymer Concentration on Membrane Performance in Wastewater Treatment*, MATERIALE PLASTICE, 55, No. 1, 2018, pag 95-98, <http://www.revmaterialeplastice.ro>, Impact Factor: 1,248
3. Vasilica-Viorica Toniță (Corcoțoi), **Maria Vlad**, Andrei Berbecaru, Gelu Movileanu, *Influence of chemical and mineralogical composition of steelworks slurry on physico-chemical and structural properties of the agglomerate*, UPB Sci. Bull., Seria B, Vol 80 Iss.1 3, 2018, ISSN 1454- 2331, pag. 221-228, <https://www.scientificbulletin.upb.ro>, RG Journal impact: 0,31
4. Maria Iuliana Marcus, Mihaela Andreea Mitiu, **Maria Vlad**, Mariana Mincu, Gina Ghita, Ana maria Anghel, *Influence of different electroplating sludge types on the iron ions recovery yield*, Revista de chimie, no.3/2018, volum 69, pag.618-620, <http://www.revistadechimie.ro>, Impact Factor: 1.232.
5. Mihaela Andreea Mitiu, Maria Iuliana Marcus, **Maria Vlad**, Cristina Mihaela Balaceanu, *Stability of ceramic glazes obtained by valorification of anorganic pigments extracted from electroplating sludge*, Revista de chimie, no.3/2018, volum 69, pag.571-574, <http://www.revistadechimie.ro>, Impact Factor: 1.232.
6. M.I. Marcus, **M. Vlad**, M.A. Mitiu, A.M. Anghel, F. Marinescu, L. Laslo, M. Ilie, R. Szep, G. Ghita, M. Matei, E. Holban, F. D. Dumitru, *Recovery of galvanic sludge by physicochemical mechanisms*, *Journal of Environmental Protection and Ecology* 18, No 3 p.1117–1126 (2017), ISSN 1311-5065, www.scibulcom.net, Impact Factor: 0,679.
7. Ilenuta Severin, Maria Vlad, *The influence of the properties of the material used for obtaining geopolymers on their structure and compressive strength*, Revista de chimie, no.6/2017, volum 68, pag.1282-1187, <http://www.revistadechimie.ro>, Impact Factor: 1.232.
8. Jiuyang Lin, Wenyuan Ye, Marian-Cornel Baltaru, Yu Pan Tang, Nicole J. Bernstein, Peng Gao, Stefan Balta, **Maria Vlad**, Alexander Volodin, Arcadio Sotto, Patricia Luis, Andrew L. Zydney, Bart Van der Bruggen, *Tight ultrafiltration membranes for enhanced separation of dyes and Na₂SO₄ during textile wastewater treatment*, *Journal of Membrane Science*, May 2016, DOI: 10.1016/j.memsci.2016.04.057, Impact Factor: 5.557
9. Vasile BASLIU, **Maria Vlad**, Gelu Movileanu, *Composites with technological role by embedding granular particles of FeTi₃O into a metallic matrix*, *Journal of Science and Arts*, nr 4(37), 2016, .pp.79-84, Global Impact Factor=0,675
10. Marius Bodor, Rafael M. Santos, Geanina Cristea, Muhammad Salman, Özlem Cizer, Remus I. Iacobescu, Yi Wai Chiang, Koenraad Van Balen, **Maria Vlad**, Tom Van Gerven *Laboratory investigation of carbonated BOF slag used as partial replacement of natural aggregate in cement mortars*, *Cement and Concrete Composites* 65:55-65, January 2016, Impact Factor: 3.33 · DOI: 10.1016/j.cemconcomp.2015.10.002
11. T. Radu **M. Vlad**, F. Potecasu G.G. Istrate, *Preparation and characterization of electroless Ni–P–Al₂O₃ nanocomposite coatings*, *Digest Journal of Nanomaterials and Biostructures*, 10(3):1055 - 1065 · September 2015, Impact Factor: 0,756
12. Jiuyang Lin, Wenyuan Ye*, Jie Huang, Borrego Ricard, Marian-Cornel Baltaru, Benjamin Greydanus, Stefan Balta, Jiangnan Shen*, **Maria Vlad**, Arcadio Sotto, Patricia Luis, and Bart Van der Bruggen, *Toward Resource Recovery from Textile Wastewater: Dye Extraction, Water and Base/Acid Regeneration Using a Hybrid NF-BMED Process*, *ACS Sustainable Chemistry & Engineering* 3(9):pp 1993–2001 · August 2015, Impact Factor: 5,78
13. Marius Bodor, Rafael M. Santos, Yi Wai Chiang, **Maria Vlad**, Tom Van Gerven. *Impacts of Nickel Nanoparticles on Mineral Carbonation*, *The Scientific World Journal*, vol. 2014, Article ID 921974, 10 pages, 2014, Doi:10.1155/2014/921974, Impact factor 1,219.
14. Rafael M. Santos, Marius Bodor, Paul N. Dragomir, Andreea G. Vraciu, **Maria Vlad**, Tom Van Gerven, *Magnesium chloride as a leaching- and aragonite-promoting additive for the mineral carbonation of calcium-rich materials*, *Minerals Engineering Journal*, 59 (2014) 71-81, Impact factor 1,714

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15. Marius Bodor, Rafael M. Santos, Lubica Kriskova, Jan Elsen, **Maria Vlad**, Tom Van Gerven, *Susceptibility of mineral phases of steel slags towards mineral carbonation: mineralogical, morphological and chemical assessment*, European Journal of Mineralogy, 2013, 25, 533-549 DOI: 10.1127/0935-1221/2013/0025-2300., Impact factor 1,506
16. Marius Bodor, Rafael M. Santos, Tom Van Gerven, **Maria Vlad**, *Recent developments and perspectives on the treatment of industrial wastes by mineral carbonation, a review*, Central European Journal of Engineering, 3(4) 2013, 566-584, DOI:10.2478/s13531-013-0115-8
17. **M. Vlad**, T. Radu, O. Mitoseru, F. Potecasu, *Environment Quality Improvement at Hot-dip Galvanization and the Recycling of Zinc By-products*, Journal of Environmental Protection and Ecology 12, No 3A, p. 1415–1423(2011), ISSN 1311-5065, www.scibulcom.net., Impact factor 0,774.
18. Tamara Radu, Florentina Potecasu, **Maria Vlad**, *Research on obtaining and characterization of zinc micro-alloyed with bismuth coatings*, Metalurgia International nr. 1/2011 ISSN 1582-2214, pag. 44-48. www.isinet.com position <http://scientific.thomson.com/cgi-bin/jrnst/jlresults.cgi> Impact factor 0,13.
19. **M. Vlad**, A. Chiriac, S. Constantinescu, S. Balta, *Removal of the Pollutants from Waste water Through Coagulation-flocculation Process*, Journal of Environmental Protection and Ecology 12, No 3A, p.1517–1524 (2011), ISSN 1311-5065, www.scibulcom.net., Impact factor 0,774.
20. Gelu Marian Movileanu, **Maria Vlad**, *Soil pollution with heavy metals come from municipal solid waste*, Metalurgia International nr. 15(9), 2010, ISSN, 1582-2214, pag. 83-84, www.isinet.com position <http://scientific.thomson.com/cgi-bin/jrnst/jlresults.cgi>, Impact factor 0,13
21. Radu T. Constantinescu S., **Vlad M.**, *Morphologies of Widmanstätten structures and mechanism formation in steels*, Journal of Materials, Science Forum vol. 636-637, nr.1/2010, pp. 550-5555 Trans Tech Publications, Switzerland, ISSN: 0255-5476, ISSN/ISO: Mater. Sci. Forum doi:10.4028/www.scientific.net/MSF.636-637.
22. Gelu Marian Movileanu, **Maria Vlad**, *Study of the landfill waste impact on the groundwater quality in the close area*, Metalurgia International, vol. XV (2010), no. 1. Editura stiintifica FMR, ISSN 1582-2214, p.8+13, www.isinet.com position <http://scientific.thomson.com/cgi-bin/jrnst/jlresults.cgi> on steel base, review Metalurgia International, vol XIV, 2009, nr.3 Editura stiintifica FMR, ISSN 1582-2214, p.8+13, www.isinet.com position <http://scientific.thomson.com/cgi-bin/jrnst/jlresults.cgi>, Impact factor 0,13.
23. **Maria VLAD**, Mihai GAITA, Luminita MORARU, *Influence of substrate polarisation voltage on the main properties of TiN films deposited on steel base*, review Metalurgia International, vol XIV, 2009, nr.3 Editura stiintifica FMR, ISSN 1582-2214, p.8+13, www.isinet.com position <http://scientific.thomson.com/cgi-bin/jrnst/jlresults.cgi>, Impact factor 0,13
24. Luminita MORARU, **Maria VLAD**, *High-Accuracy Structure Identification of the Aluminium Eutectic Alloys Using the Colour Metallography*, review Metalurgia International, vol. XIV (2009), special issue no.10, Editura stiintifica FMR, ISSN 1582-2214, pag.18+23, www.isinet.com position <http://scientific.thomson.com/cgi-bin/jrnst/jlresults.cgi>, Impact factor 0,13
25. **Vlad M.**, Gaita M., *Corelation between polarisation voltage and the properties of TiN films deposited on steel base*, review Metalurgia International, vol 11, 2008, Editura stiintifica FMR, ISSN 1582-2214, pag.42+47, www.isinet.com position <http://scientific.thomson.com/cgi-bin/jrnst/jlresults.cgi>, Impact factor 0,13.
26. Potecasu Florentina, Mitoseriu Olga, Drugescu Elena, **Vlad Maria**, *The structure of composite deposition with nickel matrix*, review Metalurgia International, vol 11, 2008, Editura stiintifica FMR, ISSN 1582-2214, pag.35+41, www.isinet.com position <http://scientific.thomson.com/cgi-bin/jrnst/jlresults.cgi>, Impact factor 0,13
27. L. Moraru, **M Vlad**, *Nucleation of crystals in under cooled molten aluminium*, Revista de Chimie, Bucharest-, 2007, vol 58; part 2, pag. 129-132, ISSN 0034-7752 <http://www.revista.dechimie.ro/arhiva.asp?lim=ro&rev=ch>. Impact factor 0.54.

■ Publicatii in reviste ISI proceedings: 14

1. **Laurenția Geanina Tiron, Maria Vlad, Ștefan Baltă**, *Research on hydrophilic nature of polyvinylpyrrolidone on polysulfone membrane filtration*, IOP Conf. Series: Materials Science and Engineering, 374 (2018) 012059, doi:10.1088/1757-899X/374/1/012059
2. **Laurenția Geanina TIRON**, Eliza DANAILA, Gina Genoveva ISTRATE, Ștefan BALTA, **Maria Vlad**, *Retention capacity of polysulfone membrane in wastewater treatment*, Nano, Bio, Green and Space - Technologies for a Sustainable Future, SGEM 2018, International Multidisciplinary Scientific GeoConference-SGEM, Vol. 18 Issue 6.1 (2018) 433-440, ISSN 1314-2704, ISBN 978-619-7408-50-8, doi.org/10.5593/sgem2018/6.1
3. **Laurenția Geanina TIRON**, Ștefan Cătălin PINTILIE, **Maria VLAD**, Iulian - Gabriel BÎRSAN, Ștefan BALȚĂ, *Characterization of polysulfone membranes prepared with thermally induced phase separation technique*, IOP Conf. Series: Materials Science and Engineering, Vol. 209(1), 2017, ISSN: 17578981, doi:10.1088/1757-899X/209/1/012013.
4. **Lurenția Geanina TIRON**, Ștefan Cătălin PINTILIE, **Maria VLAD**, Ștefan BALȚĂ, Andreea Liliana LAZĂR, *The influence of the polysulfone concentration on membrane retention properties*, Ecology, Economics, Education And Legislation Conference Proceedings, SGEM 2017, International Multidisciplinary Scientific GeoConference-SGEM, Vol.II, pg.391-398, 2017, ISSN1314-2704, doi:10.4028/www.scientific.net/AMR.1143.79
5. **Laurenția Geanina TIRON**, Marius BODOR, **Maria VLAD**, Ștefan BALȚĂ, *The influence of manufacturing factors on the polysulfone membrane properties*, Conference: International Multidisciplinary Scientific Geoconferences SGEM 2016, at Albena, Bulgaria, Volume: Book 4, Volume II, pag.157-164, ISSN: 1314-2704, DOI: 10.5593/SGEM2016/B42/S18.021
6. **Vasile BASLIU, Maria Vlad, Gelu Movileanu**, *Obtaining composite materials with technological role by incorporating granular particles in metal matrix*. 7th Conference on Material Science & Engineering – UGALMAT 2016, mai 19 – 21, 2016, Advanced Materials Research ISSN: 1662-8985, Vol. 1143, pp 79-84, doi:10.4028/www.scientific.net/AMR.1143.79, © 2017 Trans Tech Publications, Switzerland
7. **Maria Iuliana Mărcuș, Maria Vlad, A. Mihaela Mițiu**, *Influence of Different Galvanic Sludge Types on the Extraction Efficiency of Chromium Ions*, Advanced Materials Research ISSN: 1662-8985, Vol. 1143, pp 108-114, doi:10.4028/www.scientific.net/AMR.1143.79, © 2017 Trans Tech Publications, Switzerland
8. **Severin, Maria Vlad**, *Properties of Alkali Activated Ground Granulated Blast Furnace Slag Based Geopolymers*, 7th Conference on Material Science & Engineering – UGALMAT 2016, mai 19 – 21, 2016, Advanced Materials Research ISSN: 1662-8985, Vol. 1143, pp 114-120, doi:10.4028/www.scientific.net/AMR.1143.79, © 2017 Trans Tech Publications, Switzerland
9. **Vasilica Viorica Corcoțoi Toniță, Maria Vlad, Ilenuța Severin, Andrei Berbecaru**, *Chemical and Mineralogical Composition Influence of Steelworks Dust on Agglomerate Quality*, 7th Conference on Material Science & Engineering – UGALMAT 2016, mai 19 – 21, 2016, Advanced Materials Research

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ISSN: 1662-8985, Vol. 1143, pp 120-127, doi:10.4028/www.scientific.net/AMR.1143.79, © 2017 Trans Tech Publications, Switzerland.

10. L. Balint, **M. Vlad**, D. Dima, I. S. Balint, Characterization of the emulsions used for cold rolling steel strips with the view of their valorisation, 14th SGEM GeoConference on Energy and Clean Technologies, www.sgem.org, SGEM2014 Conference Proceedings, ISBN 978-619-7105-16-2 / ISSN 1314-2704, June 19-25, 2014, Vol. 2, 43-50 pp.
11. **Vlad Maria**, Movileanu Gelu, Radu Tamara, Constantinescu Stela, Balint Simion, Florea Gheorghe, *Immobilization of waste with metal content in the vitreous matrix*, www.sgem.org, SGEM 2012 Conference Proceedings/ ISSN 1314-2704, June 17-23, 2012, Albena, Bulgaria, http://dx.doi.org/10.5593/SGEM_GeoConference, Vol.5, p. 499-506.
12. **Vlad Maria**, Munteanu Viorel, Balint Lucica, Movileanu Gelu, Bodor Marius, *Environmental pollution control in coking plants situated in proximity of urban areas*, SGEM2012 Conference Proceedings/ ISSN 1314-2704, June 17-23, 2012, Albena, Bulgaria, http://dx.doi.org/10.5593/SGEM_GeoConference, Vol 4, p303-310.
13. Tamara RADU, Anisoara Ciocan, **Maria Vlad**, Simion Ioan Balint, Viorel Dragan, *Environmental risk assessment in the galvanizing of steel sheets*, www.sgem.org, SGEM2012 Conference Proceedings/ ISSN 1314-2704, June 17-23, 2012, Albena, Bulgaria, http://dx.doi.org/10.5593/SGEM_GeoConference, Vol.5, p391-398.
14. **Maria Vlad**, Gelu Movileanu, Tamara Radu, Lucica Balint, *Recycling of zinc by products* www.sgem.org, SGEM2011 Conference Proceedings/ ISSN 1314-2704, June 20-25, 2011, Vol. 3, p. 875-882, Albena, Bulgaria, DOI:10.5593/sgem2011/s18.109, www.crossref.org, 10.5593/SGEM_GeoConference.

■ Publicatii in reviste nationale si internationale (BDI)-selectate: 31

1. Laurenția Geanina TIRON, **Maria VLAD**, Ștefan Cătălin PINTILIE, Ștefan BALTĂ, *Research on obtaining and characterization of polymeric membranes for wastewater treatment*, The Annals Of "Dunarea De Jos" University Of Galati Fascicle IX. Metallurgy And Materials Science, No. 2, ISSN 1453 – 083X, 2016, <https://scholar.google.ro>
2. Ileanuța SPĂTARU (SEVERIN), **Maria VLAD**, Constantin GHEORGHIȘ- Gelu MOVILEANU, *Characterization of the Red Mud Resulted from the Alumina Bayer Process Production for the Future Use in Geopolymers Synthesis*, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI. FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, ISSN 1453 – 083X, vol 1, 2014, pag. 13-18, <https://scholar.google.ro>.
3. Viorica TONIȚĂ (CORCOȚOI), **Maria VLAD**, Gelu MOVILEANU, *The influence of chemical composition and physical properties of dusts and slurries from iron and steel industry on the agglomeration process*, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI, FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, ISSN 1453 – 083X, special ISSUE May 2014, pag. 59-66, <https://scholar.google.ro>
4. Ileanuța SEVERIN (SPĂTARU), **Maria VLAD**, *Geopolymers Obtained With Red Mud From Alumina Manufacturing*, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI. FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, ISSN 1453 – 083X, vol 2, 2014, pag. 45-48, <https://scholar.google.ro>.
5. Tamara RADU, **Maria VLAD**, Gelu MOVILEANU, *Environmental risk management in a siderurgical slag dump*, Annals of "Dunarea de Jos" University of Galati, Fascicle IX, Metallurgy and Materials Science special ISSUE, 2013, ISSN 1453 – 083X, pag.153-157, <https://scholar.google.ro>.
6. Ștefan DRAGOMIR, **Maria VLAD**, *Low energy consumption of an modern ecological habitat*, Annals of "Dunarea de Jos" University of Galati, Fascicle IX, Metallurgy and Materials Science special ISSUE, 2013, ISSN 1453 – 083X, pag 138-143, <https://scholar.google.ro>.
7. Gelu Movileanu, **Maria VLAD**, Tamara Radu, Ștefan Dragomir, *Research concerning the impact of the pollution on water and soil resources from Danube Delta*, Annals of "Dunarea de Jos" University of Galati, Fascicle IX, Metallurgy and Materials Science special ISSUE, 2013, ISSN 1453 – 083X, pag 235-241, <https://scholar.google.ro>.
8. Toniță Vasilica-Viorica (Corcoțoi), **Vlad Maria**, Gelu MOVILEANU, *Characterization of dusts and slurries from iron and steel industry in terms of chemical composition, morphology and physical properties*, Annals of "Dunarea de Jos" University of Galati, Fascicle IX, Metallurgy and Materials Science special ISSUE, 2013, ISSN 1453 – 083X, pag.110-117, <https://scholar.google.ro>.
9. **Vlad Maria**, Movileanu Gelu, Marcus Iuliana, Florea Gheorghe, Cantaragiu Alina, *Neutralization of hazardous waste in vitreous mass of glass*, The Annals of „Dunarea de Jos” University of Galati, Fascicle IX Metallurgy and Materials Science, ISSN1453-083X June 2012, no 2, pag. 20-24. <http://www.csa>.
10. Constantinescu Stela, **Vlad Maria**, Tamara RADU, *Characterization of CVD niobium carbide coatings on hard carbide substrate* Annals of „Dunarea de Jos” University of Galati, Fascicle IX Metallurgy and Materials Science, ISSN1453-083X June 2012, No 2, ISSN 1453-083X, pag. 51 <http://www.csa>,
11. Ștefan DRAGOMIR, **Maria VLAD** - *Cleaning waste water of the continuous steel casting*, Annals of „Dunarea de Jos” University of Galati, Fascicle IX Metallurgy and Materials Science, ISSN1453-083X June 2012, no 2, ISSN 1453-083X, pag 166, <http://www.csa>,
12. Tamara RADU, Anisoara Ciocan, **Maria Vlad**, Stela Constantinescu, *Obtaining and characterizing tin-lead coatings on steel band*, Annals of „Dunarea de Jos” University of Galati, Fascicle IX Metallurgy and Materials Science, ISSN1453-083X June 2012, no 2, ISSN 1453-083X, pag. 46 <http://www.csa>,
13. **Maria Vlad**, *Research on the pollution of underground waters in a certain part of Galati district*, The Annals of „Dunarea de Jos” University of Galati, Fascicle IX Metallurgy and Materials Science, ISSN1453-083X, May 2011, special issue pag.37-45, ISSN 1453-083X, www.fmet.ugal.ro/anale, <http://www.csa>.
14. Radu Tamara, **Vlad Maria**, *Zinc coatings on steel substrate attained by different elements added*, Vol.18 TEHNOMUS, - New Technologies and Products in Machine Manufacturing Technologies, ISSN 1224 029X, Edit. Universitatii Stefan cel Mare din Suceava, 2011, pag.113-138, www.tehnomusjournal.fim.usv.ro, <http://www.scipio.ro>.
15. **Maria Vlad**, Olga Mitoseru, Stela Constantinescu, Emil Stratulat, *Improvement of steel sheet corrosion resistance by thermic coverage method with zinc-aluminium alloys*, Annals of „Dunarea de Jos” University of Galati, Fascicle IX Metallurgy and Materials Science, Anul XVIII(XXIII), No. 2- 2007 , pag.67-72, ISSN 1453-083X, http://www.cnscis.ro/2006_evaluare_rev.php, <http://www.csa>.

Zhu

16. **Maria Vlad**, Elisabeta Vasilescu, Superficial tension of liquid copper with small content of oxygen, Annals of „Dunarea de Jos” University of Galati, Fascicle IX Metallurgy and Materials Science, Anul XVIII(XXIII), 2006, pag.67-71, ISSN 1453-083X, http://www.cncsis.ro/2006_evaluare_rev.php, <http://www.csa>.
17. **Maria Vlad**, *Thermodynamic assesment of the Cu - Ti system in microalloyed copper base alloys*, Annals s of „Dunarea de Jos” University of Galati, Fascicle IX Metallurgy and Materials Science, Anul XVIII(XXIII), 2006, pag., ISSN 1453-083X, http://www.cncsis.ro/2006_evaluare_rev.php, <http://www.csa>.
18. **Vlad Maria**, Mitoseru Olga, Stratulat Emil, *Nonferrous alloys with special properties in high temperature*, Annals of „Dunarea de Jos” University of Galati, Fascicle IX Metallurgy and Materials Science, no.1.,May 2004, ISSN 1453-083X, pag. 70-72 http://www.cncsis.ro/2006_evaluare_rev.php, <http://www.csa>.
19. **Vlad Maria**, Bela Varga, Stratulat Emil, *Recycling Aluminium Waste*, Annals of „Dunarea de Jos” University of Galati, Fascicle IX Metallurgy and Materials Science, No.2., Nov. 2003, ISSN 1453-083X, pag. 99-102 http://www.cncsis.ro/2006_evaluare_rev.php, <http://www.csa>.
20. **M. Vlad**, O. Mitoşeriu, L. Moraru, L. Mitoşeriu, *Alloys and Metallic Coatings in High Temperature Applications, The 14th International Conference on Surface Modification Technologies*, Paris, Franta, 11- 13 sept.2001, ISSN 0-87170-733-0, pag. 575-578 <http://www.csa.com>.
21. **M.Vlad**, A.Chiriac, B.Varga, *Valorisation of aluminium waste*, Annals of „Dunarea de Jos” University of Galati,Fascicle IX Metallurgy and Materials Science, p.75-7-81, ISSN 1335-1532, Anul XVIII(XXIII), 2001, p72-78, ISSN1453-083X, http://www.cncsis.ro/2006_evaluare_rev.php, <http://www.csa>.
22. **M. Vlad**, L. Moraru, A. Ciocan, *Improved copper based alloy physical-mechanical properties by microalloying*, Acta Metallurgica Slovaca, No. 1, vol. 4, pg. 222-224, 1998, ISSN-1335-1532, <http://www.csa.com>.
23. **M.Vlad**, A.Ciocan, A.Chiriac., Chen Huimin, Zhang Youshou., *Study of Making of multi-element Cu-Base Alloy System by Microalloying*, Journal of Hubei Polytechnic University China, Volume 13, No.2, 1998, pag.61-63, ISSN 1003-4684, ACI (Annual Comprehensive Index), <http://pubsonline.informs.org>.
24. **M. Vlad**, L. Moraru, A. Chiriac, Research Concerning the Obtaining of the Cellular Aluminium Alloys, Acta Metalurgica Slovaca, nr. 3/1998, pag. 258-261, Kosice-Slovaia, ISSN-1335-1532, <http://www.csa.com>.
25. **M. Vlad**, A. Chiriac, L. Moraru, *Recherches sur la thermodynamique du systeme binare cuivre-titan*, Acta Metallurgica Slovaca, nr. 3/1998, pag. 262-267, Kosice-Slovaia, ISSN-1335-1532, <http://www.csa.com>.
26. **Fl.Oprea**, O. Mitoseriu, **M. Vlad**, *Metallic Coatings with Zinc-Aluminum Alloys*, Metalurgia (Bucharest) 38:55,221-225,5/1986 <http://www.scopus.com>.
27. L. Moraru, C. Tudose, **M. Vlad**, *The surface tension of molten aluminium and aluminium-silicon eutectic alloy in ultrasonic field*, Romanian Journal of Physics, vol 43, Nov 3-4, pag. 311-315, 1998. <http://www.nipne.ro/rip/index.html>
28. L. Moraru, **M. Vlad**, C. Tudose, *The influence of ultrasound on the superficial tension in aluminium solidification processes*, Metalurgia Nr.. 6-7, Bucureşti, pag. 16-19, 1996, ISSN 0461-9579, <http://www.csa.com>.
29. L. Moraru, C. Tudose, **M. Vlad**, *The influence of ultrasound on electrical conductivity of liquid aluminium*, Metalurgia, No. 4-5, Bucharest, pag. 75-77, 1996, ISSN 0461-9579, <http://www.csa.com>.
30. O.Mitoseriu, **M.Vlad**, V.Bujoreanu, Determination of mercury in ores and rocks by gravimetry with collection in the organic phase, Review Metalurgia, 38 No..8, 1986, pag.373-376, <http://www.scopus.com>.
31. **Fl.Oprea**, O.Mitoseriu, **M.Vlad**, *Research on the zinc recovery from by- products resulted in zinc galvanizing process*, Review Metalurgia, 38 No..9, 1986, pag.443-448 , <http://www.scopus.com>.

■ **Publicatii in volume ale Conferintelor stiintifice internationale (selectate): 30**

1. L G Tiron, **M Vlad** and Ş Baltă, Research on Hydrophilic Nature of Polyvinylpyrrolidone on Polysulfone Membrane Filtration, Euroinvent ICIR 2018, IOP Conference Series: Materials Science and Engineering, Volume 374 (2018) 012059 doi:10.1088/1757-899X/374/1/012059
2. Marius Bodor, Rafael M. Santos, Geanina Cristea, Muhammad Salman, Özlem Cizer, Remus I. Iacobescu, Yi Wai Chiang, Koenraad Van Balen, **Maria Vlad**, Tom Van Gerven, Utilization of Carbonated BOF Slag as Partial Replacement of Aggregate in Cement Mortars Conference: Fifth International Conference on Accelerated Carbonation for Environmental and Material Engineering, June 21-24, 2015 – New York City, United States, DOI: 10.13140/RG.2.1.3779.5682
3. Bodor Marius, Santos Rafael, Kriskova Lubica, Elsen Jan, **Vlad Maria**, Van Gerven Tom, *Synthesis of selected mineral compounds for in-depth analysis of steel slags during carbonation*, Proceedings of the Third International Slag Valorisation Symposium (The transition to sustainable materials management), pag. 307-310, 2013, ISBN 978-94-6018-637-0.
4. R. M. Santos, M. Bodor, P. N. Dragomir, A. G. Vraciu, **M. Vlad**, T Van Gerven, *Magnesium chloride as a leaching and aragonite-promoting additive for the mineral carbonation of calcium-rich materials*, in Proceedings of Fourth International Conference on Accelerated Carbonation for Environmental and Materials Engineering, Leuven, Belgia, 9-12.04.2013, pag. 127-139.
5. M. Bodor, R. M. Santos, L. Kriskova, J. Elsen, **M. Vlad**, T. Van Gerven, *Mineralogical and morphological assessment of carbonated steel slags and synthesized minerals*, în Proceedings of Four International Conference on Accelerated Carbonation – for Environmental and Materials Engineering, Leuven, Belgia, 9-12.04.2013, pag. 235-244
6. R M. Santos, M. Bodor, J. Van Bouwel, L. Kriskova, J. Elsen, **M. Vlad**, T. Van Gerven, *Mineralogical effects on the intensified mineral carbonation of steel slags: kinetics, conversion, basicity and products*, European Mineralogical Conference EMC, 2- 6 September 2012, Frankfurt /Main Germany, Vol.1 EMC2012-378,2012
7. Marius Bodor, Rafael M. Santos, Geanina Cristea, Muhammad Salman, Özlem Cizer, Remus I. Iacobescu, Yi Wai Chiang, Koenraad Van Balen, **Maria Vlad**, Tom Van Gerven, Investigation of carbonated BOF slag used as partial replacement of aggregate in mortars, Conference: New Trends in Environmental and Materials Engineering, October 2013 Galati, Romania.
8. **Maria Vlad**, Gelu Moveianu, Soil pollution with heavy metals, Proceeding of the 5th International conference ARCAST, May 14-15, 2010, Galati, Romania, p.305, ISSN 2068-3510.
9. **Vlad Maria**, Bart Van der Bruggen, *Treated polluted water by membrane filtration*, Proceeding of National Symposium GEPROPOL 2009- Achievements and Perspectives in Metallurgy and Materials 12-13 Iunie 2009, p 369-378, ISSN 2066-5725.

Zhu

10. **Maria VLAD**, Tamara RADU., Ecaterina MATEI, *Researches Concerning the Development of Industrial Water Pollution Prevention and Wastewater Treatment*, Proceedings - International Conference on Xenobiotic in the Urban water Cycle XENOWAC 2009, 11 -13.March, PAPHOS- Cipru, ISBN 978-9963-671-89-2
11. **M.Vlad**, T. Radu, O. Mitoseru, F. Potecasu, *Environment quality improvement at hot dip galvanization and the recycling of zinc by-products*, International U.A.B.-B.En.A. Conference, Management and sustainable protection of environment, 6-7 May 2009,Alba Iulia, Romania, ISBN 978-973-1890-30-2, p.248.
12. Tamara RADU, **Maria VLAD**, Olga MITOSERIU, *Prevention and reduction of waste in the hot dip galvanizing steel sheet*, Proceeding of the 8th INTERNATIONAL CONFERENCE ON TECHNOLOGY AND QUALITY FOR SUSTAINED DEVELOPMENT, TQSD 2008, October, 30-31, 2008, Bucharest, Romania, p.59÷ 64, ISSN: 1844 -9158.
13. **Maria VLAD**, Stela CONSTANTINESCU, Tamara RADU, Stefan BALTA, *The management of municipal solid waste in Galati city area*, Proceeding of the 8th INTERNATIONAL CONFERENCE ON TECHNOLOGY AND QUALITY FOR SUSTAINED DEVELOPMENT, TQSD 2008, October, 30-31, 2008, Bucharest, Romania, p. 103÷108, ISSN: 1844-9158.
14. **M. Vlad**, L. Moraru, *Alloying elements influence on surface tension of aluminium based alloys*, In ALUMINIUM 2007 Transaction of the Universities of Kosice, ISSN 1335-2334, pag.117-122.
15. L. Moraru, **M. Vlad**, *Cavitation erosion of aluminium in water*, in ALUMINIUM 2007 Transaction of the Universities of Kosice -ALUMINIUM 2007, ISSN 1335-2334, pag.257-262.
16. **Maria Vlad**, Chiriac Alexandru Emil Stratulat, *Microalloying with rare metals of Al - Si - Mg ternary system base alloys*, Volume Scientific Conference Ugal Mat 2005, Technologies and advanced materials, from 20÷23 October 2005,p.88-91, ISBN 973-627-238-9
17. **M. Vlad**, E. Strățulat, *Obtaining of Al-Si-Mg alloys used for casting cult objects* Volume of ARTCAST Congress, 14-15 may 2004, "Dunarea de Jos" University, Galati, Romania, p.182-185, ISBN 973-8316-43-X
18. **M.Vlad**, A.Chiriac, L. Moraru, *Improving Mechanical Properties of Al Si 10 Mg Alloy by Microalloying* Review Aluminium 2003", Decin, Cehia, Vol.1, pag. 273÷277.
19. **M.Vlad**, L.Moraru, V. Bela, G.Murariu, *Aluminium Foundry West Processing*, Volume II Mezinardni Konference ALUMINIUM 2001, Sbornik Prednasek, Decin Strelnice 3-5 rijen 2001, 213-217.
20. L.Moraru, **M.Vlad**, C.Tudose, *Estimation of Melting Temperature for 99.97 wt pct Al From Activation Energy for Viscous Flow*, Volume II Mezinardni Konference ALUMINIUM 2001, Sbornik Prednasek, Decin Strelnice 3-5 rijen 2001, 117-122
21. **M. Vlad**, L. Moraru, C. Georgescu, *The Influence of Low Oxygen Content on the Copper Viscosity*, 7th European Conference on Advanced Materials and Processes, EUROMAT 2001, Rimini, Italy, 10-14 June, 2001.
22. **M.Vlad**, L.Moraru A.Chiriac, *Recovery and waste disposal*, Volume MOC'39,Odesa, April 26-2, 2000,p 147
23. **M.Vlad**, A.Ciocan, L.Moraru, A. Chiriac, F. Tudorie, *Copper Alloys Obtaining by Microalloying with Superior Physical and Mechanical Properties*.EUROMAT '98, Conference on Materials in Oceanic Environment, 22-24 July 1998, pag.175-178
24. A.Ciocan, **M.Vlad**, *Prealloys Used for Obtaining Port Steel of the Off-Share Drilling Rigs*, EUROMAT '98, Conference on Materials in Oceanic Environment, 22-24 July 1998, Lisabon, Portugal, p. 179-183
25. **M. Vlad**, L. Mitoseriu. *Nonferrous alloys based on copper with superior physical and mechanical properties obtained by microalloying*,Volume II(CILT II) - 9th Proceedings of the International Metallurgy and Materials Congress, Istanbul-Turkey, 11-15 June 1997, p.1117-1121, ISSN 1301-3637.
26. **M. Vlad**, A Chiriac, *Improving physico- chemical properties of Al-Si-Mg alloys by microalloying with heavy metals fusible*, Achievements and Perspectives in Metallurgy and Materials Science, Galati, 13-14 October 2000, Publishing house F.M.R.Bucharest, 393-398, ISBN 973-8151-02-3, p. 80-86.
27. **Vlad Maria**, *Influence of oxygen content on liquid copper viscosity*, Achievements and Perspectives in Metallurgy and Materials, Galati, 13-14 oct. 2000, Publishing house F.M.R. Bucharest, 393-398, ISBN 973-8151-02-3, p.86-92.
28. **M.Vlad**, F.Tudorie, P.Ferreira, Gh.Dima., *Binary, Ternary and Multicomponent System in Microalloyed Copper base Alloys.*" Proceedings of the 8th National Meeting of the Portuguese Materials Society", Morinha Grande, 11-13 June 1997, Portugal, p. 339-344.
29. L.Moraru, **M.Vlad**, *Grain and fine structure of Al 99,99% and AlSi12 eutectic alloy solidified in ultrasonic field*, Volume "Ninth International Symposium on Light Metals Production", Tromso - Transheim Norway, 18 - 21aug.1997, p.195-199.
30. **M.Vlad**, L.Moraru, *Effect of dissolved oxygen on the surface tension of liquid Copper*, Volume "Ninth International Symposium on Light Metals Production", Tromso - Transheim Norway, 18-21 aug. 1997, p. 201-206.

 **Prezentari orale, postere, la Conferintelor internationale: 38 – selectate**

Prezentari orale

1. **Laurenția Geanina Tiron**, Maria Vlad, Ștefan Baltă, *Research on hydrophilic nature of polyvinylpyrrolidone on polysulfone membrane filtration*, International Conference on Innovative Research – Euroinvent ICIR 2018, Iasi, Mai 2018
2. **Laurenția Geanina Tiron**, Ștefan Baltă, Maria Vlad, *The influence of Polyvinylpyrrolidone additive of PSf membranes properties*, Scientific Conference of Doctoral Schools from "Dunărea de Jos" University of Galati (CSSD-UDJC), Perspectives and challenges in doctoral research, 6th Edition, 6th Edition, 7-8 June 2018
3. Ștefan Cătălin PINTILIE, **Laurenția Geanina TIRON**, **Maria VLAD**, Iulian Gabriel BIRSAN, Ștefan BALTĂ, *Light transmission analysis on phase inversion membranes using smartphone light sensor*, Scientific Conference of Doctoral Schools from "Dunărea de Jos" University of Galati (CSSD-UDJC), Perspectives and challenges in doctoral research, 6th Edition, 6th Edition, 7-8 June 2018

Zhu

4. Ștefan Cătălin PINTILIE, Laurenția Geanina TIRON, Andreea Liliana LAZAR, **Maria VLAD**, Iulian - Gabriel BIRSAN, Ștefan Baltă, *The influence of nanoparticle type on the organic-inorganic membranes used for wastewater treatment*, 3rd International Conference on Desalination using Membrane Technology, Spania, Aprilie 2017
5. Laurenția Geanina TIRON, Ștefan Cătălin PINTILIE, Andreea Liliana LAZĂR, **Maria VLAD**, Ștefan BALTĂ, Marius BODOR, *Influence of polymer concentration on membrane performance in wastewater treatment*, 29th European Symposium on Applied Thermodynamics – ESAT 2017, București, Mai 2017
6. Laurenția Geanina TIRON, Ștefan Cătălin PINTILIE, **Maria VLAD**, Iulian Gabriel BIRSAN, Ștefan BALTĂ, *Characterization of polysulfone membranes prepared with thermally induced phase separation technique*, International Conference on innovative Research, Mai 2017, Iași
7. Laurenția Geanina TIRON, Ștefan Cătălin PINTILIE, Ștefan BALTĂ, **Maria VLAD**, *Research on membranes with different thicknesses and concentrations of polysulfone with application on wastewater treatment*, International Conference of Young Researchers, Octombrie 2017
8. Laurenția Geanina TIRON, **Maria VLAD**, Ștefan Cătălin PINTILIE, Ștefan BALTĂ, *Influence of factors from the manufacturing process on the properties of polymeric membranes used in wastewater treatment*, International Conference of Young Researchers, Octombrie 2015
9. Ileanuța SEVERIN, **Maria VLAD**, Tamara RADU, Stela CONSTANTINESCU, Marius BODOR, *The Influence of the Nature of the Materials Subjected to the Geopolymerisation Process over the Structure and Mechanical Properties of the Synthesized Geopolymers*, 4-th Edition of Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galați CSSD-UDJG, 2nd and 3rd of June 2016
10. Laurenția Geanina TIRON, **Maria VLAD**, Ștefan Cătălin PINTILIE, Ștefan BALTĂ, *Research on obtaining and characterization of polymeric membranes for wastewater treatment*, 4-th Edition of Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galați CSSD-UDJG, 2nd and 3rd of June 2016
11. Maria-Iuliana MĂRCUȘ, **Maria VLAD**, Tamara RADU, Lucica BALINT, Stela CONSTANTINESCU, *Selective Extraction of Metal Compounds from Electroplating Sludge*, 4-th Edition of Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galați CSSD-UDJG, 2nd and 3rd of June 2016.
12. Vasile BAȘLIU, **Maria VLAD**, Gelu MOVILEANU, *Composites with Technological Role by Embedding FeTi30 Particles into a Metallic Matrix*, 4-th Edition of Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galați CSSD-UDJG, 2nd and 3rd of June 2016
13. Vasilica-Viorica (Corcoțoi) TONIȚĂ, **Maria VLAD**, *The influence of steelworks sludge physico-chemical properties on the agglomerate quality*, 4-th Edition of Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galați CSSD-UDJG, 2nd and 3rd of June 2016
14. MĂRCUȘ Maria-Iuliana, **VLAD Maria**, MIȚIU Mihaela Andreea, *Influence of different galvanic sludge types on the extraction efficiency of chromium ions*, Conference on material science & engineering, UgalMat 2016, May 19-21, Galați, Romania.
15. BAȘLIU Vasile, **VLAD Maria**, MOVILEANU Gelu, *Possibilities of obtaining composite materials with technological role by incorporating granular particles in metal matrix*, Conference on material science & engineering, UgalMat 2016, May 19-21, Galați, Romania.
16. Ileanuța Severin, **Maria Vlad**, *Properties of alkali activated ground granulated blast furnace slag based geopolymers*, Conference on material science & engineering, UgalMat 2016, May 19-21, Galați, Romania.
17. Tonita (Corcoțoi) Vasilica Viorica, **Maria Vlad**, Severin Ileanuța, Andrei Berbecaru, *Chemical and mineralogical composition influence of steelworks dust on agglomerate quality*, Conference on material science & engineering, UgalMat 2016, May 19-21, Galați, Romania.
18. R. M. Santos, M. Bodor, P. N. Dragomir, A.G. Vraciu, **M. Vlad**, T. Van Gerven, *Magnesium chloride as a leaching and aragonite-promoting additive for the mineral carbonation of calcium-rich materials*, The Fourth International Conference on Accelerated Carbonation for Environmental and Materials Engineering, Leuven, Belgia, 9-12.04.2013.
19. M. Bodor, R. M. Santos, L. Kriskova, J. Elsen, **M. Vlad**, T. Van Gerven, *Mineralogical and morphological assessment of carbonated steel slags and synthesized minerals*, The Fourth International Conference on Accelerated Carbonation for Environmental and Materials Engineering, Leuven, Belgia, 9-12.04.2013.
20. Bodor Marius, Santos Rafael, Kriskova Lubica, Elsen Jan, **Vlad Maria**, Van Gerven Tom, *Synthesis of selected mineral compounds for in-depth analysis of steel slags during carbonation*, Proceedings of the Third International Slag Valorisation Symposium (The transition to sustainable materials management), Leuven, Belgium, 19-20.03.2013.
21. Bodor Marius, Santos Rafael, Kriskova Lubica, Elsen Jan, **Vlad Maria**, Van Gerven Tom, *Synthesis of selected mineral compounds for in-depth analysis of steel slags during carbonation*, Proceedings of the Third International Slag Valorisation Symposium (The transition to sustainable materials management), pag. 307-310, 2013, ISBN 978-94-6018-637-0.
22. R. M. Santos, M. Bodor, P. N. Dragomir, A. G. Vraciu, **M. Vlad**, T. Van Gerven, *Magnesium chloride as a leaching and aragonite-promoting additive for the mineral carbonation of calcium-rich materials*, In Proceedings of Fourth International Conference on Accelerated Carbonation for Environmental and Materials Engineering, Leuven, Belgia, 9-12.04.2013, pag. 127-139.
23. M. Bodor, R. M. Santos, L. Kriskova, J. Elsen, **M. Vlad**, T. Van Gerven, *Mineralogical and morphological assessment of carbonated steel slags and synthesized minerals*, in Proceedings of Four International Conference on Accelerated Carbonation for Environmental and Materials Engineering, Leuven, Belgia, 9-12.04.2013, pag. 235-244
24. Rafael M. Santos, Marius Bodor, Jens Van Bouwel, Lubica Kriskova, Jan Elsen, **Maria Vlad**, Tom Van Gerven, *Mineralogical effects on the intensified mineral carbonation of steel slags: kinetics, conversion, basicity and products*, European Mineralogical Conference, Frankfurt, Germany, 2-6 September 2012.
25. Marius Bodor, Rafael Santos, Lubica Kriskova, Jan Elsen, **Maria Vlad**, Tom Van Gerven, *Synthesis of major mineral components of steel slags for carbonation process detailed analysis*, The second PhD student symposium, Galați, România, 13-14.12.2012.
26. R.M. Santos, M. Bodor, J. Van Bouwel, L. Kriskova, J. Elsen, **M. Vlad**, T. Van Gerven, *Mineralogical effects on the intensified mineral carbonation of steel slags: kinetics, conversion, basicity and products*, European Mineralogical Conference EMC, 2- 6 September 2012, Frankfurt /Main Germany, Vol.1 EMC2012-378,2012
27. Marius Bodor, **Maria Vlad**, Ștefan Baltă, *Latest work on mineral carbonation of steelmaking slags for carbon dioxide trapping*, The International Conference New trends in environmental and materials engineering, Galați România, 18-20.05.2011.
28. Bodor Marius, **Vlad Maria**, Thomas van Gerven, *Converter slags analysis and literature study on carbon dioxide sequestration by steel slags*,

Zhu

International Workshop Research quality in doctoral school increased industrial and international visibility, prezentare orală, 2011.

Postere:

29. Vasile Başliu , Nicolae Diaconu , Gelu Movileanu , Maria Vlad, *Manufacturing and characterization of metal matrix composites with SiC granular particles*, 8th Conference on Material Science & Engineering – UGALMAT 2018, October 11 – 13, 2018, Galati, Romania
30. MĂRCUŞ Maria-Iuliana, VLAD Maria, PANAIT Ana-Maria, MONCEA Andreea- MÎȚIU Mihaela Andreea, MOVILEANU Gelu, *Chemical and structural characterization of chromium-based pigments extracted from hazardous sludge*, 8th Conference on Material Science & Engineering – UGALMAT 2018, October 11 – 13, 2018, Galati, Romania
31. Vasile Başliua, Gelu Movileanub, Nicolae Diaconuc, **Maria Vlad**, *Research regarding the obtaining and characterization of metal matrix composites with granular particles of SiC*, Scientific Conference of Doctoral Schools from "Dunărea de Jos" University of Galati (CSSD-UDJC), Perspectives and challenges in doctoral research, 6th Edition, 7-8 June 2018
32. Maria-Iuliana MĂRCUŞ, **Maria VLAD**, Andreea MONCEA, Mihaela Andreea MÎȚIU, Gelu MOVILEANU, *Characterization of ceramic pigments obtained by extraction from galvanic sludge*, Scientific Conference of Doctoral Schools from "Dunărea de Jos" University of Galati (CSSD-UDJC), Perspectives and challenges in doctoral research, 6th Edition, 6th Edition, 7-8 June 2018
33. Maria-Iuliana MĂRCUŞ, Maria VLAD, Mihaela Andreea MÎȚIU, Andreea MONCEA, Gelu MOVILEANU, *Valorisation potential of the inorganic compounds recovered from galvanic sludge in decorative ceramic glazes*, Scientific Conference of Doctoral Schools from "Dunărea de Jos" University of Galati (CSSD-UDJC), 5th Edition, 8-9 June 2017
34. Bodor Marius, Santos Rafael, Kriskova Lubica, Elsen Jan, **Vlad Maria**, Van Gerven Tom, *Synthesis of selected mineral compounds for in-depth analysis of steel slags during carbonation*, Proceedings of the Third International Slag Valorisation Symposium (The transition to sustainable materials management), Leuven, Belgium, 19-20.03.2013.
35. Marius Bodor, Rafael Santos, Lubica Kriskova, Ştefan Baltă, **Maria Vlad**, Tom van Gerven, *Minerals Synthesis for Detailed Analysis of Steel Slag Carbonation Process*, International Conference ArtCast 2012, Galați.
36. Tamara Radu, **Maria Vlad**, Marius Bodor, *Environmental risk management at hot-dip galvanizing*, The International Conference New trends in environmental and materials engineering, Galați România, 18-20.05.2011.
37. Ştefan Baltă, Marius Bodor, Lucica Balint, **Maria Vlad**, *Evaluation of noise in Galati city*, The International Conference New trends in environmental and materials engineering, Galați România, 18-20.05.2011.
38. Constantinescu Stela, **Maria Vlad**, Marius Bodor, *Characterization of niobium carbide cematic deposition from vapour at normal pressure*, International Workshop Research quality in doctoral school increased industrial and international visibility, Poster, 2011.

3. LISTA PROIECTE/GRANTURI DE CERCETARE DEZVOLTARE

 **Director sau membru in echipa de cercetare: 48 contracte**

Proiecte internationale

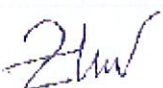
1. Proiect COST 636 , Xenobiotic in the Urban Water Cycle, 2005-2009, member of the Management Committee and in Working Group 2 -Methods for waste water treatment.

Proiecte nationale de Cercetare-Dezvoltare-Inovare

1. Contract nr. 22DPST/ 20 08 2013, cu titlul: "Tehnologii de obtinerea a benzilor subtiri din otel cu valoare adaugata ridicata prin acoperire chimica cu aliaje de nichel si compozite in matrice de nichel"-PNCDI-INOVAR-EPST membru in echipa de cercetare.
2. Proiect MIS ETC code 1676, Contract grant nr. 93370/11.12.2013, intitulat "Cross-border interdisciplinary cooperation for the prevention of natural disasters and mitigation of environmental pollution in Lower Danube Euroregion, membru in echipa de cercetare.
3. Contract de finantare pentru executie de proiecte, Nr.1421.11.06.2008 (CDI) *Tehnologii avansate si ecologice de realizare a materialelor de protectie pentru rezistenta la corozione- ECOVER*, membru in echipa de cercetare.
4. Proiect nr.71012/2007(Directia de cercetare:7- Materiale, procese si produse inovative), *Tehnologii noi de fabricatie pentru produsele platedin oteluri speciale cu valoare adaugata ridicata*, membru in echipa de cercetare.
5. Proiect CEEX Tip P-CD (PROFEFIN) Nr. 147/2006-2008, subcontract Nr.5824/14.07.2006, *Solutii de procesare si utilizare a deseurilor feroase ultrafine din industria otelului prin dezvoltarea de nano si microprocesse de contact, urmarind incadrarea in criteriile de dezvoltare durabila*, membru in echipa de cercetare.
6. Program CALIST (proiect PNCDI) 2004 – 2006. *Procedura pentru identificarea si determinarea rapida a unor metale grele din apa*, membru in echipa de cercetare.

Granturi finantate de Uniunea Europeana: 5

1. Proiect POSDRU/159/1.5/S/132397/2014-2015, Excelență în cercetare prin burse doctorale și postdoctorale (ExcelDOC), Valoare proiect (partener) 2.196 738 lei, **coordonator partener**.
2. Proiect POSDRU 156/1.2/G142055/2014-2015, Programe de master inovative pentru viitorii profesioniști, **expert pe termen scurt**
3. Grant POSDRU/21/1.5/G/19524/2009-2011, Domeniul major de interventie 1.5 "Programe doctorale si postdoctorale în sprijinul cercetării", titlul proiectului: Creșterea calității în formarea cercetătorilor pe bază de programe doctorale îmbunătățite prin parteneriat, PhD EXPERT, Valoare proiect 1.500.000 lei, **director proiect**.



4. Proiect TACIS Phare, RO2006/018-447.01.01.07, Dezvoltarea si Extinderea Laboratorului de monitorizare Integrata a Factorilor de Mediu (aer,apa,soil)in Euro-regiunea Dunarea de Jos-zona Galați-Cahul, Valoare proiect : membru in echipa de cercetare.
5. Proiect TACIS-Phare, RO 2004/016-941.01.01.04, Monitorizarea integrate a mediului înconjurător (air, water, soil) in Euro-regiunea Dunarea de Jos-zona Galați-Cahul, membru in echipa de cercetare.

Proiecte cu mediu socio-economic: 36 contracte, selectate 2

1. Contract no. 267 /2000, *Analiza deșeurilor solide (praf de la aglomerare, deșuri refractare, praf de var si calcar, praf dolomita, amestecuri de formare uzate) din SIDEX SA*, beneficiar SIDEX, **director proiect**.
2. Contract nr.204/1998 *Studiul electrochimic al acoperirilor compozite in matrice de nichel comparativ cu straturile de nichel pur obtinute prin electrodepunere*, beneficiar: SIDEX S.A, membru in echipa de cercetare.

ALTE CONTRIBUTII STIINTIFICE

Premiu al Academiei Romane

1. **Maria Vlad**, Nicolae Ciocan, Anisoara Ciocan, Florea Oprea, Sanda Oprea, The award „Traian Vuia” of Romanian Academy in 1987 for the paper „Research on the mechanism of physico-chemical processes in the development of new complex alloys from the extractive metallurgy”.

Patent

Galvanizing process of thin steel strips in zinc baths with complex microalloying with bismuth-cadmium-tin- nickel, owner Galfinband SA, OSIM, Romania, No. A/00642/29.06.2010. Authors: Eni Cristinel, Tamara Radu, **Vlad Maria**, Florentina Potecasu, Ciuta Stephen Coman Mihaita Mitu

Zhu