Curriculum vitae
Europass

INFORMAŢII PERSONALE

Nume	**MARIOARA MOLDOVAN**	Mobil:
Adresă(e)		
Telefon(oane)		
Fax(uri)		
E-mail(uri)		
Naţionalitate(-tăţi)	ROMANA	
Data naşterii		

EXPERIENŢA PROFESIONALĂ

Perioada	**2008 - prezent**
Numele şi adresa angajatorului	Universitatea Babes Bloyai -ICCRR, Cluj-Napoca
Tipul activităţii sau sectorul de activitate	Laboratorul de Compusi Organici, Colectivul de "Compozite Polimerice"
Funcţia sau postul ocupat	Cercetător ştiinţific gr.I – Director ICCRR
Principalele activităţi şi responsabilităţi	Conduc activitatiile de cercetare în domeniul sintezei si caracterizării materialelor compozite utilizate in medicină, constând în elaborarea de noi monomeri si noi umpluturi anorganice utilizate în formularea acestora. Am intocmit documentatia produselor noi in vederea omologarii si certificarii pentru punerea in fabricaţie conform normelor europene pentru dispozitive medicale. Am desfasurat activitati de transfer tehnologie catre IMM –uri. Implicarea in intocmirea documentatiei tehnici-stiintifice privind castigarea proiectelor noi de cercetare prin participarea la competitiile desfasurate in cadrul Programelor de excelenta si programe internationale. Conceperea si intocmirea documentatiei pentru brevete de inventie si articole publicate in reviste de specialitate.
Perioada (de la – până la)	**2005-2007**
Numele şi adresa angajatorului	Institutul de Chimie „Raluca Ripan”, Cluj-Napoca
Tipul activităţii sau sectorul de activitate	Laboratorul de Compusi Organici, Colectivul de "Compozite Polimerice"
Funcţia sau postul ocupat	Cercetător ştiinţific gr.II
Principalele activităţi şi responsabilităţi	Am raspuns si condus activitatile de cercetare privind elaborarea si caracterizare fazei anorganice si organice utilizata in compozita de uz medical. Caracterizarea materialelor compozite cu utilizare in stomatologia restaurativa, de profilaxie si in protetica stomatologica Conducerea temelor de cercetare. Castigarea proiectelor de cercetare prin participarea la competitiile desfasurate in cadrul Programelor de Excelenta si Programe Internationale. Implicarea in activitatea de obtinere a certificatelor de fabricatie pentru produsele noi omologate. Am desfasurat activitati de transfer tehnologie catre IMM –uri.
Perioada	**1999-2005**
Numele şi adresa angajatorului	Institutul de Chimie „Raluca Ripan”, Cluj-Napoca
Tipul activităţii sau sectorul de activitate	Laboratorul „Compozite Polimerice”
Funcţia sau postul ocupat	Cercetator ştiinţific gr III

Principalele activităţi şi responsabilităţi	Activitati de cercetare privind elaborarea si caracterizare fazei anorganice utilizata in compozita. Caracterizarea materialelor compozite cu utilizare in stomatologia restaurativa, de profilaxie si in protetica stomatologica. Conducerea temelor de cercetare. Castigarea proiectelor de cercetare prin participarea la competitiile desfasurate in cadrul Programelor Nationale de C&D. M-am implict in activitatea de obtinere a certificatelor de fabricatie pentru produsele noi.
Perioada	**1998-1999**
Numele şi adresa angajatorului	Institutul de Chimie „Raluca Ripan”Cluj-Napoca
Tipul activităţii sau sectorul de activitate	Laboratorul „Compozite Polimerice”
Funcţia sau postul ocupat	Cercetător ştiinţific
Principalele activităţi şi responsabilităţi	Activitate de cercetare in domeniul sintezei si caracterizarii rasinilor acrilice, dimetacrilice si pulberi de sticla si ceramice utilizate in formualrea compozitele polimerice. Elaborarea si caracterizarea materialelor compozite
Perioada	**1989-1998**
Numele şi adresa angajatorului	Institutul de Chimie „Raluca Ripan”Cluj-Napoca
Tipul activităţii sau sectorul de activitate	Laboratorul „Compozite Polimerice”
Funcţia sau postul ocupat	Asistent Cercetare
Principalele activităţi şi responsabilităţi	Activitate de cercetare in domeniul obtinerei si caracterizari fazei anorganice utilizata in compozita stomatologica. Elaborarea si caracterizarea materialelor compozite

EDUCAŢIE ŞI FORMARE

Perioada	**1977-1981**
Numele şi tipul instituţiei de învăţământ şi al organizaţiei profesionale prin care s-a realizat formarea profesională	Liceul profil Industrial Viseu de Sus, jud. Maramures
Domeniul studiat / aptitudini ocupaţionale	Profil industrial
Tipul calificării / diploma obţinută	Diploma de Bacalaureat
Nivelul de clasificarea a formei de instruire/ învăţământ în sistemul naţional sau internaţional	Invatamint in sistem national
Perioada	**1983-1989**
Numele şi tipul instituţiei de învăţământ şi al organizaţiei profesionale prin care s-a realizat formarea profesională	Univesitatea "Babes-Bolyai", Cluj-Napoca, Facultatea de Tehnologie Chimica, Sectia Tehnologie Chimica Anorganica
Domeniul studiat / aptitudini ocupaţionale	Profil Chimie Anorganica
Tipul calificării / diploma obţinută	Diploma de Inginer in profilul Chimie
Nivelul de clasificarea a formei de instruire/ învăţământ în sistemul naţional sau internaţional	Invatamind in sistem national
Perioada	**1999-2002**
Numele şi tipul instituţiei de învăţământ şi al organizaţiei profesionale prin care s-a realizat formarea profesională	Universitatea Babes Bolyai, Cluj-Napoca
Domeniul studiat / aptitudini ocupaţionale	Profil Chimie
Tipul calificării / diploma obţinută	Diploma de Doctor in Chimie

Nivelul de clasificarea a formei de instruire/ învăţământ în sistemul naţional sau internaţional	Invatamint in sistem national
Perioada	**3.11- 9 .11. 1993**
Calificarea / diploma obţinută	Certificat de absolvire la "International Centre for Science and High Technology"
Disciplinele principale studiate / competenţe profesionale dobândite	"Advanced Workshop on Whiskers and Particles in Composite Materials Technology" Domeniul: Materiale Compozite
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	University of Trieste, ITALIA
Perioada	**9.05-13.05. 2006.**
Calificarea / diploma obţinută	Diplomă
Disciplinele principale studiate / competenţe profesionale dobândite	Xpert PBS (Xpert Personal Business Skills) promovat de Europäische Prüfungszentrale din Dortmund, Germania care are ca scop final formarea profesională de bază în domeniul competenţelor sociale / managementul de proiect
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Asociaţia EUROED Bucureşti.
Perioada	**7.02-9.02 2008.**
Calificarea / diploma obţinută	Diplomă de participare
Disciplinele principale studiate / competenţe profesionale dobândite	Workshop-ul „Strengthening the Role of Women Scientists in Nano-Science"
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Institutul „Jozef Stefan" din Ljubljana, Slovenia

APTITUDINI ŞI COMPETENŢE PERSONALE	Limba străină 1	Limba străină 2	Limba străină 3	Etc.
Limba(ile) maternă(e)	**Romană**			
Limba(ile) străină(e) cunoscută(e)	Engleză			
abilitatea de a citi	bine			
abilitatea de a scrie	bine			
abilitatea de a vorbi	bine			

Aptitudini şi competenţe artistice Muzică, desen, literatură etc.	Muzica Literatura
Aptitudini şi competenţe şi sociale Locuiţi şi munciţi cu alte persoane, într-un mediu multicultural, ocupaţi o poziţie în care comunicarea este importantă sau desfăşuraţi o activitate în care munca de echipă este esenţială. (de exemplul cultură, sport etc.)	Zona geografica in care locuiesc si muncesc, Transilvania, face ca sa convietuiesc intr-un mediu multicultural, astfel incit comunicarea intre mine si persoanele de alte etnii, respectiv alte culturi, sa fie permanenta si de buna calitate. Intrucit natura activitatii specifice cercetarii necesita munca in echipa, iar pozitia ierarhica in care ma aflu la ora actuala (sef colectiv si director de proiecte de cercetare) implica o comunicare permanenta si buna cu numeroase persoane, ma indreptateste sa consider ca sunt o persoana sociabila, comunicativa, placuta.

Aptitudini şi competenţe organizatorice De exemplu coordonaţi sau conduceţi activitatea altor persoane, proiecte şi gestionaţi bugete; la locul de muncă în acţiuni voluntare (de exemplu în domenii culturale sau sportive) sau la domiciliu.	Am competenta manageriala pentru conducerea proiectelor si a echipei de cercetare prin experienţa rezultata in urma coordonării unui număr important de proiecte in cadrul PNCD, CEEX, PNII si 1 contract international Second Co-Applicant COST CHEMISTRY WORKING GROUP PROPOSAL. Am fost si sunt membru in comitete de organizare si comitetul stiintific in cadrul **3** Conferinte Internationala, **3** Congrese Internationale si **2** Conferinta Nationala. Sunt **expert evaluator CNCSIS** din 2007, pentru următoarele domenii:1.Stiinţa materialelor polimerice; 2.Chimie anorganică; 3.Stiinţa materialelor compozite.Fac parte din **„**Registrul naţional al experţilor din învăţământul superior şicercetare",conform http://www.edu.ro/rne_form2.pdf. **Domenii de expertiză specifică: 1.** Materiale compozite, **2.** Materiale nanostructurate. **Domenii de expertiză generală: 1.** Chimie anorganica, **2** Materiale composite. Am organizat si coordonat activitatea de amenajare si dotare, la stadarde similare cu cele din universitati europene de prestigiu, a laboratoarelor de cercetare in care isi desfasoara activitatea de cercetare grupul pe care il conduc
Aptitudini şi competenţe tehnice (utilizare calculator, anumite tipuri de echipamente, maşini etc.)	Utilizare calculator: Editare Word, Excel, Internet. Am conceput o serie de instalaţii de laborator funcţionale. Actionare si exploatare aparatura specifica de laborator (SEM,HPLC, INSTRON UNIVERSAL, UV-Vis, FTIR)
Permis(e) de conducere	Da
Alte aptitudini şi competenţe Competenţe care nu au mai fost menţionate anterior	
Informaţii suplimentare	
Anexe	Lucrari publicate (**peste 200**), Brevete si cereri de brevete (**20 + 12**), Cărţi si capitole de carte (**2+10**), Premii(**22**), Produse omologate si cu Certificat de fabricatie (CE- **21**); Membru in comisii de doctorat **(peste 35; UMF-Cluj-Napoca, UMF-Targu Mures, UBB- Facultatea de Chimie; UPB-Facultatea de Mediu; USAMV-Cluj-Napoca, UT-Cluj Napoca)**

Marioara Moldovan



Cluj-Napoca
Ianuarie 2026

ANEXE

ARTICOLE ISI PUBLICATE IN REVISTE NATIONALE SI INTERNATIONALE

1. Clichici A.; Dudea D.; Gasparik C. Coadă C.A.; Bâldea I.; Cuc S.; **Moldovan M.,** Characterization of Newly Synthesized Nanobiomaterials for the Treatment of White Spot Lesions, Biomolecules **2026**, 16(1), 112; https://doi.org/10.3390/biom16010112
2. Sarosi C.; **Moldovan M.;** Petean I.; Filip M.; Furtos G.; Balint S.; Carpa R.; Ionescu A. C., Multifunctional GO-Based Hydrogels with Various Inorganic Additives for Oral Health and Photodynamic Activation, Dent. J. **2026**, 14(1), 9; https://doi.org/10.3390/dj14010009
3. Paltinean G. A.; **Moldovan M**.; Sarosi C.; Silaghi-Dumitrescu L.; Cuc S.; Furtos G.; Petean I.; Chis I. C., Graphitic Carbon Nitride in Oral Health: Emerging Applications, Antimicrobial Potential, and Future Perspectives, Int. J. Mol. Sci. **2025**, 26(24), 11860; https://doi.org/10.3390/ijms262411860
4. Mester A.; Bran S.; **Moldovan M**.; Petean I.; Tudoran L. B.; Sarosi C.; Piciu A.; Ene D., Surface and Biocompatibility Outcomes of Chemical Decontamination in Peri-Implantitis Management, Biomedicines **2025**, 13(11), 2748; https://doi.org/10.3390/biomedicines13112748
5. Pogacian-Maier A.C.; Septimiu Campian R.; Mester A.; **Moldovan M**; Petean I; Pall E.; Varvara S.; Piciu A.; Ene D., Electrochemical Behavior and Cytocompatibility of Titanium Dental Implants Under Different Chemical Treatments, Biomedicines **2025**, 13(10), 2457; https://doi.org/10.3390/biomedicines13102457
6. Arghiropol D.; Rusu T.; **Moldovan M**.; Paltinean G.A.; Silaghi-Dumitrescu L.; Sarosi C.; Petean I., Petroleum Hydrocarbon Pollution and Sustainable Uses of Indigene Absorbents for Spill Removal from the Environment—A Review, Sustainability **2025**, 17(17), 8018; https://doi.org/10.3390/su17178018
7. Serfözö N. E.; **Moldovan M**.; Prodan D.; Ilie N., Development and Evaluation of a Novel Self-Etch Dental Adhesive Incorporating Graphene Oxide–Zirconia (GO-ZrO2) and Hydroxyapatite–Zinc (HA-Zn) for Enhanced Bond Strength, Biocompatibility, and Long-Term Stability, Nanomaterials **2025**, 15(11), 803; https://doi.org/10.3390/nano15110803
8. Cuc S.; Moldovan A.; Moldovan M.; Sarosi C.; Buduru S.; Bacali C.; Prodan D.; Lazar V.; Man S. C., Effects of Bromelain and Papain in Tooth Whitening and Caries Removal: A Literature Review, Dent. J. **2025**, 13(3), 132; https://doi.org/10.3390/dj13030132
9. Avram S.E.; Birle B. V.; Cosma C.; Tudoran L.B.; **Moldovan M**.; Cuc S.; . Borodi G; Petean I., Ecological Building Material Obtained Through the Moderate Thermal Consolidation of Ceramic Slurry Collected from Industrial Waste Waters, *Materials* **2025**, *18*(8), 1715; https://doi.org/10.3390/ma18081715
10. Mester A.; Piciu D.; **Moldovan M**.; Sarosi C.; Cuc S.; Petean I.; Moisescu-Pop C.; Piciu A.; Onisor F.; Bran S., Zirconia Implants Indicated Better Stability After Exposure to Radioiodine-131 Therapy Used for Differentiated Thyroid Cancer, Cancers **2025**, 17(4), 678; https://doi.org/10.3390/cancers17040678
11. Furtos G.; Sarosi C.; **Moldovan M**.; Korniejenko K.; Łach M.; Ungureanu V.; Miller L.; Nováková I., The Influence of Alkali-Resistant MiniBars™ on the Mechanical Properties of Geopolymer Composites, Materials **2025**, 18(4), 778; https://doi.org/10.3390/ma18040778
12. Sarosi C.; Muntean A.; Cuc S.; Petean I.; Balint S.; **Moldovan M.;** Mohan A. G., In Vitro Investigation of Novel Peptide Hydrogels for Enamel Remineralization, Gels **2025**, 11(1), 11; https://doi.org/10.3390/gels11010011
13. Tăut M. A.; **Moldovan M**.; Filip M.; Petean I.; Saroşi C.; Cuc S.; Taut A. C.; Ardelean I.; Lazăr V.; Man S. C. Synthesis and Characterization of Microcapsules as Fillers for Self-Healing Dental Composites, Nanomaterials **2024**, 14(22), 1853; https://doi.org/10.3390/nano14221853
14. Schröter, F.-J., **Moldovan, M**., Sarosi, C., Ilie, N., Enhancing dentin bonding through new adhesives formulations with natural polyphenols, tricalcium phosphate and chitosan, Dental Materials, **2024**, 40(2), pp. 276-284, https://doi.org/10.1016/j.dental.2023.11.014
15. Muntean A, Sarosi C., Petean I., Cuc S., Carpa R., Chis IA., Ilea A., Delean A.G., **Moldovan M.**, Developing Bioactive Hydrogels with Peptides for Dental Application, Biomedicines **2024**, 12(3), DOI:10.3390/biomedicines12030694
16. Mirica, I.-C., Furtos, G., **Moldovan, M.,** Prodan D. Petean I., Campian R.S., Pall, E., Lucaciu, O., Morphology, Cytotoxicity, and Antimicrobial Activity of Electrospun Polycaprolactone Biomembranes with Gentamicin and Nano-Hydroxyapatite, Membranes **2024**, 14(1),10, https://doi.org/10.3390/membranes14010010
17. Furtos, G., Prodan, D., Sarosi, C., **Moldovan M,** Korniejenko K., Miller L., Fiala, L., Iveta, N., Mechanical Properties of MiniBars™ Basalt Fiber-Reinforced Geopolymer Composites, Materials, **2024,** 17(1),248, https://doi.org/10.3390/polym15234591
18. Saitis C.; Manea L. D.; **Moldovan M**.; Plesa L. M.; Borodi G.; Petean I.;.Sorin L., Recycled Aggregates Influence on the Mechanical Properties of Cement Lime-Based Mortars, Materials **2024**, 17(20), 5122; https://doi.org/10.3390/ma17205122
19. Furtos G., Prodan D., Sarosi, C., **Moldovan M**., Korniejenko K., Miller L., Fiala L., Iveta N., Mechanical Properties of MiniBars™ Basalt Fiber-Reinforced Geopolymer Composites, Materials **2024,** 17(1) DOI10.3390/ma17010248
20. Prodan, D., **Moldovan, M.,** Cuc, S., Sarosi, C., Petean I., Filip M., Carpa R., Doukeh, R., Mirica, I.-C., Advanced Dentistry Biomaterials Containing Graphene Oxide, *Polymers*, **2024**, 16(12), 1743, DOI10.3390/polym16121743
21. Gheorghe G.F.;. Țâncu A.M.C; Amza O.E.; Suciu I.; Iosif L.; Cuc S.; Petean I.; **Moldovan M**.; Dimitriu B., Influence of

Direct Coronal Restoration Materials on the Fracture Resistance of Endodontically Treated Premolars: An In Vitro Study, Dent. J. **2024**, 12(9), 294; https://doi.org/10.3390/dj12090294
22. **Moldovan M.,** Dudea D., Cuc S., Sarosi C/, Prodan D., Petean I., Furtos G., Ionescu A., Ilie N., Chemical and Structural Assessment of New Dental Composites with Graphene Exposed to Staining Agents, J. Funct. Biomater. **2023**, 14(3), 163; https://doi.org/10.3390/jfb14030163,
23. Muresan S. M. C., Dreanca A., Repciuc C., Dejescu C., Rotar O., Pop R.A., Pantea S., Pall E., Ciotlaus I., Sarosi C., Mohan A.G., **Moldovan M.** and. Oana L, Dental Hydrogels with Essential Oils with Potential Activity in Periodontitis, Appl. Sci. **2023**, 13(3), 1787; https://doi.org/10.3390/app13031787
24. Kırgız M.S. Mirza J., Cuc S., Prodan D. Saroşi C., Perhaiţă, I., Carpa R., **Moldovan M**., Popa D., Varvara S., Popa M., Physico-Antibacterial Feature and SEM Morphology of Bio-Hydraulic Lime Mortars Incorporating Nano-Graphene Oxide and Binary Combination of Nano-Graphene Oxide with Nano Silver, Fly Ash, Zinc, and Titanium Powders, Buildings **2023**, *13*(1), 172; https://doi.org/10.3390/buildings13010172
25. Beddoe, M., Gölz, T., Barkey, M., Bau E., Godejohann M., Maier S.A., **Moldovan M**, Prodan D., Ilie, N., Tittl, A. Probing the micro- and nanoscopic properties of dental materials using infrared spectroscopy: A proof-of-principle study, Acta Biomaterialia, 2023, 168, pp. 309-322, https://doi.org/10.1016/j.actbio.2023.07.017
26. Rusu, M., Balc, N., **Moldovan, M**., Cuc S. Petean I, Cosma, C., Leordean, D., Recycled PET Composites Reinforced with Stainless Steel Lattice Structures Made by AM, Polymers **2023**, 15(23), 4591; https://doi.org/10.3390/polym15234591
27. Furtos, G., Prodan, D., Sarosi, C., **Moldovan, M**., Łach M., Melnychuk, M., Korniejenko, K., Advanced Geopolymer-Based Composites for Antimicrobial Application, Materials **2023**, 16(23), 7414; https://doi.org/10.3390/ma16237414
28. Ispas, A**., Moldovan, M**., Cuc, S., Petean I., Buduru S., Manziuc, M., Iosif, L., SEM Evaluation of Marginal Adaptation E-Max Crowns Manufactured by Printing-Pressed and Milling, Diagnostics **2023,** 13(23), 3518; https://doi.org/10.3390/diagnostics13233518
29. Lacan, I., **Moldovan, M**., Ardelean, I. The Influence of Chitosan on Water Absorption and Solubility of Calcium Phosphate Cement, Coatings **2023**, 13(9), 1641; https://doi.org/10.3390/coatings13091641
30. Opris, H., Baciut, M., **Moldovan, M**., Cuc S., Petean I., Opris D., Bran S., Onisor F.G.,Armenea, G., Baciut, G., Comparison of the Eggshell and the Porcine Pericardium Membranes for Guided Tissue Regeneration Applications, **2023**, Biomedicines, 11(9), 2529, https://doi.org/10.3390/biomedicines11092529
31. Barbur, I., Opris, H., Crisan, B., Cuc S., Colosi H.A., Baciut, M., Opris D., **Moldovan M**, Prodan D., Crisan L., Dinu, C., Baciut, G., Statistical Comparison of the Mechanical Properties of 3D-Printed Resin through Triple-Jetting Technology and Conventional PMMA in Orthodontic Occlusal Splint Manufacturing, Biomedicines **2023**, 11(8), 2155; https://doi.org/10.3390/biomedicines11082155
32. Lacan, I., **Moldovan, M**., Sarosi, C., Cuc S., Pastrav M., Petean, I., Ene, R, Mechanical Properties and Liquid Absorption of Calcium Phosphate Composite Cements, Materials **2023**, 16(16), 5653; https://doi.org/10.3390/ma16165653
33. Barbur, I., Opris, H., Colosi, H.A., Baciut, M., **Moldovan, M**., Cuc S. Petean I, Opris D., Dinu, C.M., Baciut, G., Improving the Mechanical Properties of Orthodontic Occlusal Splints Using Nanoparticles: Silver and Zinc Oxide, Biomedicines **2023**, 11(7), 1965; https://doi.org/10.3390/biomedicines11071965
34. Ardelean, A.I., Dragomir, M.F., **Moldovan, M**., Sarosi, C. Paltinean G.A., Pall E., Tudoran L.B, Petean, I., Oana, L., In Vitro Study of Composite Cements on Mesenchymal Stem Cells of Palatal Origin, Int. J. Mol. Sci. **2023**, 24(13), 10911; https://doi.org/10.3390/ijms241310911
35. Chiș, I.-A., Andrei, V., Muntean, A., **Moldovan M**., mesaros A., Dudescu, M.C., Ilea, A., Salivary Biomarkers of Anti-Epileptic Drugs: A Narrative Review, Diagnostics **2023**, 13(11), 1962; https://doi.org/10.3390/diagnostics13111962
36. Ilie, N., Ionescu, A.C., Huth, K.C., **Moldovan, M**., Light Transmission Characteristics and Cytotoxicity within A Dental Composite Color Palette, Materials **2023**, 16(10),3773, https://doi.org/10.3390/ma16103773
37. Piciu, D., Bran, S., **Moldovan, M**., Varvara S., Piciu A., Cuc S., Moisescu-Goia C., Barbus, E., Mester, A., Onisor, F., Radioiodine-131 Therapy Used for Differentiated Thyroid Cancer Can Impair Titanium Dental Implants: An In Vitro Analysis, Cancers **2023**, 15(9), 2558; https://doi.org/10.3390/cancers15092558
38. Ilie N., **Moldovan, M**. Ionescu, A. C., Microstructure and Mechanical Behavior of Modern Universal-Chromatic and Bulk-Fill Resin-Based Composites Developed to Simplify Dental Restorative Procedures, J. Funct. Biomater. **2022**, 13(4), 178; https://doi.org/10.3390/jfb13040178
39. Ionescu A.C.; Hahnel, S.; Delvecchio, P.; Ilie, N.; **Moldovan, M**.; Zambelli, V.; Bellani, G.; Brambilla, E., Microbiological models for accelerated development of secondary caries in vitro: Microbiological models simulating secondary caries, Journal of Dentistry 127, **2022**, 104333; https://doi.org/10.1016/j.jdent.2022.104333
40. Iosif, C.; Cuc, S. Prodan, D.; **Moldovan, M.**; Petean I.; Labunet, A.; Barbu T. L.; Badea, I.C.; Man, S. C.; Badea, M. E.; Chifor, R. Mechanical Properties of Orthodontic Cements and Their Behavior in Acidic Environments, Materials **2022**, *15*(22), 7904; https://doi.org/10.3390/ma15227904
41. Voina Cosma, L. L.; **Moldovan, M**.; Muntean, A.; Olteanu, C.D.; Chifor, R.; Badea, M.E., Novel Technology for Enamel Remineralization in Artificially Induced White Spot Lesions: In Vitro Study, Coatings **2022**, *12*(9), 1285; https://doi.org/10.3390/coatings12091285
42. Vartolomei, A.C.; Ghiga, D.V.; Serbanoiu, D.C.; **Moldovan, M**.; Cuc, S.; Pacurar M.; Pollmann, M. C. F., Comparative Evaluation of Two Bracket Systems' Bond Strength: Conventional and Self-Ligating, Dent. J. **2022**, 10(10), 196; https://doi.org/10.3390/dj10100196
43. Ilie N.; Serfözö E.N.; Prodan, D.; Diegelmann, J.; **Moldovan, M.,** Synthesis and performance of experimental resin-

based dental adhesives reinforced with functionalized graphene and hydroxyapatite fillers, Materials & Design, 221, **2022,** 110985, https://doi.org/10.1016/j.matdes.2022.110985

44. Cosma C.; **Moldovan, M.;** Simion, M.; Balc, N., Impact of laser parameters on additively manufactured cobalt-chromium restorations, The Journal of Prosthetic Dentistry, 128 (3), **2022**, 421-429, doi.org/10.1016/j.prosdent.2020.11.043

45. Lacan I.; **Moldovan M**.; Sarosi C.; Ardelean I., Chitosan Effect on Hardening Dynamics of Calcium Phosphate Cement: Low-Field NMR Relaxometry Investigations, Polymers **2022**, 14(15), 3042; https://doi.org/10.3390/polym14153042

46. Tisler C.E.; Moldovan, Moldovan M.; Petean I.; Buduru S.D.; Prodan D.; Sarosi C.; Leucuţa D.C.; Chifor, R.; Badea M.E.; Ene R., Human Enamel Fluorination Enhancement by Photodynamic Laser Treatment, Polymers **2022**, 14(14), 2969; https://doi.org/10.3390/polym14142969

47. Vartolomei, A.C.; Serbanoiu D.C.; Ghiga D.V.; **Moldovan M**.; Cuc S.; Pollmann M.C.F.; Pacurar M., Comparative Evaluation of Two Bracket Systems' Kinetic Friction: Conventional and Self-Ligating, Materials **2022**, 15(12), 4304; https://doi.org/10.3390/ma15124304

48. Lopes P.M.P.; Moldovan D.; **Moldovan M.;** Carpa R.; Saroşi C.; Păşcuţă P.; Moldovan Mazilu A.; Fechete R.; Popescu V., New Composite Hydrogel Based on Whey and Gelatin Crosslinked with Copper Sulphate, Materials **2022**, 15(7), 2611; https://doi.org/10.3390/ma15072611

49. Iosif, C., Cuc S., Prodan, D., Moldovan, M., Petean I. Badea M. E., Sava S. Tonea A. Chifor. R. Effects of Acidic Environments on Dental Structures after Bracket Debonding, Int. J. Mol. Sci. **2022**, 23(24), 15583; https://doi.org/10.3390/ijms232415583

50. Mester, A., **Moldovan, M**., Cuc, S., ...Bran, S., Onisor, F., Structural Changes in Resin-Based Composites in Saliva of Patients with Leukemia before Starting Chemotherapeutic Regimen Polymers, **2022**, 14(3), 569, DOI: 10.3390/polym14030569

51. Prodan, D., **Moldovan, M.,** Chisnoiu, A.M., Chisnoiu R.M.; Furtos G.; Cojocaru I.; Delean, A.G., Cimpean, S.I., Development of New Experimental Dental Enamel Resin Infiltrants—Synthesis and Characterization, Materials, **2022,** 15(3), 803, DOI: 10.3390/ma15030803

52. Tisler, C.E., Chifor, R., Badea, M.E., Chifor, I., **Moldovan M.,** Badea, A.F. Photodynamic Therapy (PDT) in Prosthodontics: Disinfection of Human Teeth Exposed to Streptococcus mutans and the Effect on the Adhesion of Full Ceramic Veneers, Crowns, and Inlays: An In Vitro Study, Biomedicines, **2022**, 10(1), 144, DOI: 10.3390/biomedicines10010144.

53. Mazilu Moldovan A.; Popescu V.; Ionescu, Ionescu C.V.; Cuc S.; Craciun A.; **Moldovan M**.; Dudea D.; Mesaros A.S., Various Aspects Involved in the Study of Tooth Bleaching Procedure: A Questionnaire–Based Study, Int. J. Environ. Res. Public Health **2022**, 19(7), 3977; https://doi.org/10.3390/ijerph19073977

54. Dascalu L.M.; **Moldovan M**.; Sarosi C.; Sava S.; Dreanca A.; Repciuc C.; Purdoiu R.; Nagy A.; Badea M.E.; Paun A.G.; Badea I.C.; Chifor R., Photodynamic Therapy with Natural Photosensitizers in the Management of Periodontal Disease Induced in Rats, Gels **2022**, 8(2), 134; https://doi.org/10.3390/gels8020134

55. Prodan, D.; Filip M.; Vlassa, M.; **Moldovan, M**.; Carpa, R., Chromatographic profile of major whey proteins in some dairy beverages based on milk serum, Turkish Journal of Chemistry **2022**, 46(6), DOI:10.55730/1300-0527.3497

56. Cimpean, S.I.; Ambrosie, I.; **Moldovan, M**.; Delean, A.; Prodan, D.; Prejmerean, C.; Moldovan, M.; Tomoaia-Cotisel, M.; Colceriu-Burtea, L., Testing of new experimental giomers: water sorption, conversion degree, radiopacity, microstructure and biological behavior, Studia Universitatis Babes-Bolyai Chemia **2022**, 67(1), 177 DOI: 10.24193/subbchem.2022.1.12

57. Sarosi, C., **Moldovan, M.,** Soanca, A., ...Gheorghe, G.F., Chisnoiu, R.M., Effects of monomer composition of urethane methacrylate-based resins on the c=c degree of conversion, residual monomer content and mechanical properties, Polymers, **2021**, 13(24), 4415, DOI: 10.3390/polym13244415

58. Prodan, D., **Moldovan, M**., Furtos, G., ...Varvara, S., Popa, D. Synthesis and characterization of some graphene oxide powders used as additives in hydraulic mortars, Applied Sciences, **2021,** 11(23), 11330, DOI: 10.3390/app112311330

59. Mazilu, A., Popescu, V., Sarosi, C., **Moldovan M**., Gheorghe, G.F., Chisnoiu, R.M, Article preparation and in vitro characterization of gels based on bromelain, whey and quince extract, Gels**, 2021**, 7(4), 191, DOI: 10.3390/gels7040191

60. Mester, A., **Moldovan, M.,** Cuc, S., ...Piciu, A., Onisor, F., Characteristics of dental resin-based composites in leukemia saliva: An in vitro analysis Biomedicines**, 2021**, 9(11), 1618, DOI: 10.3390/biomedicines9111618

61. Jiman, P.A., Prodan, D., **Moldovan, M**., ...Popa, C., Pop, A.S., New and recovered temporary anchorage devices, in vitro assessment of structural and surface properties, Materialsthis link is disabled, **2021**, 14(21), 6271, DOI: 10.3390/ma14216271

62. Rusnac, M.E., Prodan, D., **Moldovan, M**., ...Prejmerean, C., Dudea, D, Research on the mechanical properties, fluoride and monomer release of a new experimental flowable giomer in comparison to three commercial flowable giomers, Applied Sciences (Switzerland), **2021**, 11(19), 8921, DOI: 10.3390/app11198921

63. Kolumban, A., Moldovan, M., Ţig, I.A., ...Bud, M., Badea, M.E., An evaluation of the demineralizing effects of various acidic solutions, Applied Sciences (Switzerland), **2021**, 11(17), 8270, DOI: 10.3390/app11178270

64. Mihaela Pastrav, Andrea Maria Chisnoiu, Ovidiu Pastrav, Codruta Sarosi, Doina Pordan, Ioan Petean, Alexandrina Muntean, **Marioara Moldovan**, Radu Marcel Chisnoiu, Surface Characteristics, Fluoride Release and Bond Strength Evaluation of Four Orthodontic Adhesives, Materials **2021**, *14*(13), 3578; https://doi.org/10.3390/ma14133578

65. Cecilia Bacali, Rahela Carpa, Smaranda Buduru, Mirela L. Moldovan, Ioana Baldea, Annemarie Constantin, **Marioara Moldovan,** Doina Prodan, Laura Monica Dascalu (Rusu), Ondine Lucaciu, Florinela Catoi, Mariana Constantiniuc, Mandra

Badea, Association of Graphene Silver Polymethyl Methacrylate (PMMA) with Photodynamic Therapy for Inactivation of Halitosis Responsible Bacteria in Denture Wearers, Nanomaterials **2021**, 11(7), 1643; doi.org/10.3390/nano11071643

66. Violeta Popescu, Andreia Molea, **Marioara Moldovan**, Pompilia Mioara Lopes, Amalia Mazilu Moldovan George Liviu Popescu, The Influence of Enzymatic Hydrolysis of Whey Proteins on the Properties of Gelatin-Whey Composite Hydrogels, Materials **2021**, 14(13), 3507; https://doi.org/10.3390/ma14133507

67. Andrea Maria Chisnoiu, **Marioara Moldovan**, Codruta Sarosi, Radu Marcel Chisnoiu. Doina Iulia Rotaru, Ada Gabriela Delean, Ovidiu Pastrav, Alexandrina Muntean, Ioan Petean, Lucian Barbu Tudoran, Mihaela Pastrav, Marginal Adaptation Assessment for Two Composite Layering Techniques Using Dye Penetration, AFM, SEM and FTIR: An In-Vitro Comparative Study, Appl. Sci**. 2021**, 11(12), 5657; https://doi.org/10.3390/app11125657

68. Radu Marcel Chisnoiu, **Marioara Moldovan**, Doina Prodan, Andrea Maria Chisnoiu, Dana Hrab, Ada Gabriela Delean, Alexandrina Muntean, Doina Iulia Rotaru, Ovidiu Pastrav, Mihaela Pastrav, In-Vitro Comparative Adhesion Evaluation of Bioceramic and Dual-Cure Resin Endodontic Sealers Using SEM, AFM, Push-Out and FTIR, Appl. Sci**. 2021,** 11(10), 4454; https://doi.org/10.3390/app11104454

69. N. Ilie, C. Sarosi, M.C. Rosu, **M. Moldovan**, Synthesis and characterization of graphene oxide-zirconia (GO-ZrO2) and hydroxyapatite-zirconia (HA-ZrO2) nano-fillers for resin-based composites for load-bearing applications, Journal of Dentistry **2021**, 105, Article Number: 103557, doi.org/10.1016/j.jdent.2020.103557

70. Cuc S.; Burde A.; Cosma C.; Leordean D.; Rusu M.; Balc N.; Prodan D.; **Moldovan M.;** Ene R., Adhesion between Biocomposites and Different Metallic Structures Additive Manufactured, Coatings **2021**, 4, 483, DOI: 10.3390/coatings11040483

71. Sabau Emilia; Bere Paul; **Moldovan Marioara**; Petean Ioan; Miron-Borzan Cristina, Evaluation of Novel Ornamental Cladding Resistance, Comprised of GFRP Waste and Polyester Binder, within an Acid Environment", Polymers **2021**, 3, 448, DOI: 10.3390/polym13030448

72. Rusnac M. E.; Prodan D.; Cuc S.; Petean I.; Prejmerean C.; Gasparik C.; Dudea D.; **Moldovan M.**, Water Sorption and Solubility of Flowable Giomers", Materials **2021**, 9, 2399, DOI: 10.3390/ma14092399

73. Muntean A.; Sarosi C.; Sava S.; **Moldovan M.**; Condurache A. I., Delean A. G., Dental sealant composition-retention assessment in young permanent molars, Materials **2021**, 7, 1646, DOI: 10.3390/ma14071646

74. Mirică, I.-C. Furtos, G. Lucaciu, O. Pascuta, P. Vlassa, **M. Moldovan**, M. Campian, R.-S. Electrospun membranes based on polycaprolactone, nano-hydroxyapatite and metronidazole, Materials **2021**, 14(4), 931; doi.org/10.3390/ma14040931

75. Cimpean I. S.; Pop-Ciutrila I.S.; Buduru S.; Pavel L. L.; Florea F. D.; Delean G. A.; **Moldovan M.**; Dudescu C.M.; Berbece S.; Voinescu C. D.; Beznea A.; Negucioiu M.; Stefanescu V., Assessing Fracture Resistance of non Vital Teeth Using Two Different Composite Systems: Short-Fibre-Reinforced Composite and Glass Fibre Post with Microfilled Hybrid Composite, Materiale Plastice 2020, 4, 286-296, DOI: 10.37358/MP.20.3.5381

76. Faur, D.M. **Moldovan, M**, Prodan, D. Aldea, C. Deleanu, D, Bulata, B, Caliment, A Borzan, C, Correlation of trace elements level in the urine of healthy children and chronic kidney disease pediatric patients, Journal of Environmental Protection and Ecology, 21, 2, 710-718, **2020**

19. A. Muntean, S. Sava, C. Sarosi, **M. Moldovan**, M. Pacurar, A.G. Delean, Assessment of water sorption, solubility and interface properties for two different pit and fissure sealants, Materiale Plastice, **2020**, 3, 81-88, DOI: 10.37358/MP.20.3.5381

20. Dreanca A, Sarosi C, Parvu AE, Blidaru M, Enacrachi G, Purdoiu R, Nagy A, Sevastre B, Oros NA, Marcus, I, **Moldovan M**., Systemic and Local Biocompatibility Assessment of Graphene Composite Dental Materials in Experimental Mandibular Bone Defect, Materials, 13, 11, 2511, **2020,** DOI: 10.3390/ma13112511

21. A. Craciun, I. Baldea, A. Ispas, M.E. Badea, I. Petean, C. Sarosi, **M. Moldovan**, S. Cuc, R. Ene, M. Crisan, Evaluation of surface characteristics and cytotoxicity of dental composites, Coatings **2020**, 10(8), Article Number: 749, DOI: 10.3390/coatings10080749

22. A. Muntean, S. Sava, C. Sarosi, M. Moldovan, A.G. Delean, Optical stability and fluoride release of resin-based sealants, Journal of Optoelectronics and Advanced Materials, **2020**, 22 (7-8), 437 – 442

23. Voina C, Delean A, Muresan A, Valeanu, M, Moldovan AM, Popescu V, Petean, I, Ene R, **Moldovan M**, Pandrea S, Antimicrobial Activity and the Effect of Green Tea Experimental Gels on Teeth Surfaces, Coatings, 10, 6, 537, **2020**, DOI: 10.3390/coatings10060537

24. Miron AE, **Moldovan, M,** Prejmerean, CA, Prodan D, Vlassa M, Filip M, Badea ME, Moldovan MA, New Antimicrobial Biomaterials for the Reconstruction of Craniofacial Bone Defects, Coatings, 10, 7, 678, **2020,** DOI: 10.3390/coatings10070678

25. Dascalu (Rusu) LM, **Moldovan M**, Prodan D, Ciotlaus I, Popescu V, Baldea I, Carpa R, Sava S, Chifor R, Badea ME, Assessment and Characterization of Some New Photosensitizers for Antimicrobial Photodynamic Therapy (aPDT), MATERIALS, 13, 13, 3012, **2020**, DOI: 10.3390/ma13133012

26. Bacali C, Baldea I, **Moldovan M,** Carpa R, Olteanu DE, Filip GA, Nastase V, Lascu L, Badea M, Constantiniuc M, Badea F, Flexural strength, biocompatibility, and antimicrobial activity of a polymethyl methacrylate denture resin enhanced with graphene and silver nanoparticles, Clinical Oral Investigations, 24, 8, 2713-2725, **2020**, DOI: 10.1007/s00784-019-03133-2

27. Mirica, Ioana-Codruta; Furtos, Gabriel; Baldea, Bogdan; Lucaciu, Ondine; Ilea, Aranka; **Moldovan, Marioara**; Campian, Radu-Septimiu Influence of Filler Loading on the Mechanical Properties of Flowable Resin Composites,

Materials, 13, 6, **2020**, DOI: 10.3390/ma13061477

28. Pușcaș, C, **Moldovan, M**., Silaghi-Dumitrescu, L, Ungureanu, L., Silaghi-Dumitrescu, R., On the Apparent Redox Reactivity of "Oxygen-Enriched Water" Biological Trace Element Research, **2020**

29. Jiman, Paula Argentina; **Moldovan, Marioara**; Sarosi, Codruta; Muntean, Alexandrina; Pop, Andreea Simona; Tarmure, Viorica; Popa, Catalin; Mohan, Aurel George, Surface Characterization and Cytotoxicity Analysis of The Titanium Alloys For Dentistry, Studia Universitatis Babes-Bolyai Chemia, 65, 1, 149-162**, 2020**

30. Bercean, D.E, Carpa, R, Prodan, D., **Moldovan, M**. Borzan, C Preliminary study on scanning electron microscopy as an additional mean to assess the effectiveness of sterilization of endoscopes used in digestive tract examination Revista de Chimie, 71, 2, 280-287, **2020**

31. Muntean A., Sava S., Sarosi C., Moldovan M., Delean A.G. Optical stability and fluoride release of resin-based sealants Journal of Optoelectronics and Advanced Materials, 22 (7-8) , pp. 437-442., **2020**

32. Alexandra Roman, Stefan Ioan Stratul, Darian Rusu, Marius Boariu, Andrada Soanca, Robert Balazsi, Maria Suciu, **Marioara Moldovan** & Adriana Elena Bulboacă Investigations on the adhesion of new composites for restoring cervical lesions using energy dispersive X-ray analysis and scanning electron microscopy, Scientific Reports, 9(1),9853, **2019**, DOI https://doi.org/10.1038/s41598-019-46340-3

33. Filip, M., Prodan, D., **Moldovan, M**., Vlassa, M., Determination of nitrate and nitrite content in Zonar milk serum and derived dairy drinks using ion-pair reversed-phase high performance liquid chromatography, Studia Universitatis Babes-Bolyai Chemia, 64, 1, 197-206, **2019**, DOI: 10.24193/subbchem.2019.1.16

34. Burtea, L.C. Prejmerean, C.,Prodan, D., Baldea, I., Vlassa, M., Filip, M., **Moldovan, M.,** Lazar (Moldovan), M.A., Antoniac, A., Prejmerean, V., Ambrosie I., New pre-reacted glass containing dental composites (giomers) with improved fluoride release and biocompatibility, Materials 12, 13, 2109, **2019**, DOI: 10.3390/ma12234021

35. Cadar, C., Cretu, A., **Moldovan, M**., Mattea, C., Stapf, S., Ardelean, I., NMR T 1 –T 2 correlation analysis of molecular absorption inside a hardened cement paste containing silanised silica fume, Molecular Physics, 117, 7-8, 1000-1005, **2019,** DOI: 10.1080/00268976.2018.1513582

36. Burde, A.V., Gasparik, C., **Moldovan, M**., Baciu, S., Cosma, C., In vitro Evaluation of Accuracy of Single Dies Captured by Two Intraoral Digital Scanners, Revista de Chimie, 70, 7, 2344-2346, **2019**

37. Cândea Ciurea, A., Şurlin, P., Stratul, Ş.-I., Soancă, A., Roman, A., **Moldovan, M.**, Tudoran, L.B., Pall, E., Evaluation of the biocompatibility of resin composite-based dental materials with gingival mesenchymal stromal cells, Microscopy Research and Technique, **2019,** DOI: 10.1002/jemt.23343

38. Varvara, A.M., Gasparik, C., Culic, B., Bondor, C.I., Varvara, E.B., Furtos, G., **Moldovan, M**., Dudea, D., Radiopacity analysis of some chairside computer-aided design-computer-aided manufacturing milling materials, Studia Universitatis Babes-Bolyai Chemia, 64(1), pp. 161-172, **2019,** DOI: 10.24193/subbchem.2019.1.13

39. Muntean, A., Sava, S., Delean, A.G., Mihailescu, A.M., Dumitrescu, L.S., **Moldovan, M**., Festila, D.G., Toothpaste composition effect on enamel chromatic and morphological characteristics: In vitro analysis, Materials 12, 16, 2610, **2019**, **DOI:** 10.3390/ma12162610

40. Bacali, C., Badea, M., **Moldovan, M.,** Sarosi, C., Nastase, V., Baldea, I., Chiorean, R.S., Constantiniuc, M., The influence of graphene in improvement of physico-mechanical properties in PMMA denture base resins, Materials 12, 14, 2335, **2019**, **DOI:** 10.3390/ma12142335

41. **Moldovan, M**., Balazsi, R., Soanca, A., Roman, A., Sarosi, C., Prodan, D., Vlassa, M., Cojocaru, I., Saceleanu, V., Cristescu, I, Evaluation of the degree of conversion, residual monomers and mechanical properties of some light-cured dental resin composites, Materials 12, 13, 2109, **2019**, **DOI:** 10.3390/ma12132109

42. Mazilu, A., Sarosi, C., Moldovan, M., Miuta, F., Prodan, D., Antoniac, A., Prejmerean, C., Dumitrescu, L.S., Popescu, V., Raiciu, A.D., Saceleanu, V. Preparation and characterization of natural bleaching gels used in cosmetic dentistry, Materials 12, 13, 2106, **2019, DOI:** 10.3390/ma12132106

43. **M. Moldovan**, D. Prodan, C. Sarosi, R. Carpa, C. Socaci, M.C. Rosu, S. Pruneanu, Synthesis, morpho-structural properties and antibacterial effect of silicate-based composites containing graphene oxide/hydroxyapatite, Materials Chemistry and Physics, 217, 15, pp. 48-53, **2018**, doi.org/10.1016/j.matchemphys.2018.06.055

44. A.Soancă, M.Lupse, **M.Moldovan**, E.Pall, M.Cenariu, A.Roman, O.Tudoran, P.Surlin, O.Șoriță̆u, Applications of inflammation-derived gingival stem cells for testing the biocompatibility of dental restorative biomaterials, Annals Of Anatomy - Anatomischer Anzeiger, 218, P. 28-39, **2018**

45. Pogacean F., Coros M., Magerusan L., Rosu M.-C., Socaci C., Gergely S., Van Staden R.-I.S., **Moldovan, M**., Sarosi, C, Pruneanu S., *Sensitive detection of hydroquinone using exfoliated graphene-Au/glassy carbon modified electrode*, Nanotechnology, 29 (9), **2018**

46. Cristina Stefana Miron Borzan, **Marioara Moldovan**, Vlad Bocanet, Evaluation of Surface Modification of PA 2200 Parts Made by Selective Laser Sintering Process, Rev.Chim.69(4), **2018**

47. Rusu L.M., Chifor R, Moldovan M., Sava S, Vigu A, Ispas,A, Badea M.E. Chis, I.C., Badea, A.F, Laser therapy: Physico-chemical properties and assessment of market potential of natural photosensitizers, Journal of Optoelectronics and Advanced Materials, 20, 707-712, **2018**

48. Doukeh R., Bombos M., **Moldovan M**., Bolocan I., Hydrodesulphurization of thiophenes over CoMoRe/ ZSM 5 γ-Al2 O3 catalyst, Revista de Chimie 69(6), 1386-1390, **2018**

49. Burde V., Gasparik A. C., Moldovan M., Baciu S., Cosma C, In vitro evaluation of accuracy of single dies captured by two intraoral digital scanners, Materiale Plastice, 55(2), pp. 176-178, **2018**

50. Buduru S., Mesaros A., Culcitchi C., **Moldovan M**., Prodan D., Szuhanek C., Multivariate assessment of marginal fit of three types of dental crowns using three scanning systems for CAD-CAM technology - In vitro Pilot Study, Materiale Plastice 55(3), pp. 376-379, **2018**

51. Sucală D., Sarosi C., Popa C., Cojocaru I., **Moldovan M**., Mohan A.G., In vitro behaviour of new experimental adhesive systems, Studia Universitatis Babes-Bolyai Chemia, 63(2), pp. 71-81, **2018**

52. Popa, D., Varvara S., **Moldovan M.,** Prodan D., Carpa R., Varsta A., Popa M., Study on the importance of physicochemical characteristics from the walls in the rehabilitation works of heritage buildings, Journal of Environmental Protection and Ecology, 19(3), pp. 1166-1174, **2018**

53. Prodan, D., Filip M., **Moldovan M**., Perhaiţa, I, Scurtu, F., Silaghi Dumitrescu, L, Dreanca, A., Marcus, I. Physicochemical characterisation of some new dairy beverages based on lactoserum, Journal of Environmental Protection and Ecology, 19(2), pp. 686-693, **2018**

54. Dreancă, A., Popescu, R.A., Neagu, A., Enacrachi, G., Cimpoeş, I., Fiţ, N., **Moldovan, M**., Dumitrescu, L.S, Berindan-Neagoe, I., Marcus, I., In vitro testing of a polylactic polymer synthesized from whey, Studia Universitatis Babes-Bolyai Chemia, 63(2), pp. 93-103, **2018**

55. Pogacean F., Rosu M.C., Coros M., Magerusan L, Moldovan M., Sarosi C., Porav, A.S., Stefan-van Staden R.-I., Pruneanu S., Graphene/TiO2 -Ag based composites used as sensitive electrode materials for amaranth electrochemical detection and degradation, Journal of the Electrochemical Society, 165(8), pp. B3054-B3059, **2018**

56. Mesaros A.S., Romanec C., Mesaros M., **Moldovan M.,** Baldea I. *In vitro testing of experimental and commercial bracket bonding materials,* Materiale Plastice, 54 (4), pp. 620-625, **2017**

57. Cosma C., Balc N., **Moldovan M**., Morovic L., Gogola P., Miron-Borzan C, *Post-processing of customized implants made by laser beam melting from pure Titanium,* Journal of Optoelectronics and Advanced Materials, 19 (11-12) , pp. 738-747, **2017,**

58. Boboia A., Feher L.A., Cuc S., **Moldovan M**., *Comparative study between the sales of antiulcer drugs H2 antagonists and proton pump inhibitors,* Farmacia, 65 (4), pp. 635-642, **2017**

59. Perez M.M., Salas M., **Moldovan M.**, Dudea D., Yebra A., Ghinea R., *Scattering, absorption and transmittance of experimental graphene dental nanocomposites*, Proceedings of SPIE - The International Society for Optical Engineering, 10453 , art. no. 1045313, **2017**

60. Sucala D., Sarosi C., Cuc S., **Moldovan M.,** Popa C. *SEM analysis of the interface of five adhesive systems*, Key Engineering Materials, 752 KEM , pp. 18-23, **2017**

61. Prodan D., Filip M., Perhaita I., Vlassa M., Popescu V., Marcus I., **Moldovan M**., *The influence of minerals and lactose content on the stability of whey protein powders*, Studia Universitatis Babes-Bolyai Chemia, 62 (4) pp. 397-410, **2017**

62. Orasan O.H., Chisnoiu A.M., Dascalu Rusu M.L., Pastrav O., Pastrav M., Moldovan M., Chisnoiu R., *Optical properties and microstructural changes of hard dental tissues in gastro-esophageal reflux disease patients*, Studia Universitatis Babes-Bolyai Chemia, 62 (3) , pp. 215-223, **2017**

63. Septelean R.A., Velnazarov M., Prodan D., Perhaita I., Nemes O., **Moldovan M**., *New functionalized glass fibers employing calixarenic systems,* Studia Universitatis Babes-Bolyai Chemia, 62 (4), pp. 381-389, **2017**

64. Cojocaru, I. Prodan, D., Popescu, V., **Moldovan M**, *SEM analysis of composites with TCP/HA/chitosan/poly (methylmethacrilate), Materiale Plastice*, 54, 1, 60-62, **2017**

65. M. A Rusu, D. Leordean, C. Cosma, M. Filip, **M. Moldovan**, L. Silaghi-Dumitrescu, O. H. Orasan, *Characterization polyethylene terephthalate nanocomposites mixing with nano-silica and titanium oxide*, MATEC Web of Conferences 137, 08005, **2017**

66. A. Saplontai-Pop, **M. Moldovan**, M. Filip, R. Oprean, C. Ionescu, V. Lazar Leordean, O. Orasan, I. Baldea, *Thiosulfinate Compounds from Allium cepa Extracts: Chromatographic Identification and Biocompatibility Testing*, Chemistry of Natural Compounds, 5, 860–861, **2017**

67. O. Orăşan, R. Oprean, A. Saplonţai-Pop, M. Filip, R. Carpa, C. Saroși, **M. Moldovan**, S.C. Man, Antimicrobial activity and thiosulfinates profile of a formulation based on Allium cepa L. extract, *Open Chemistry*, **2017**, 15(1), 175-181 (IF = 1.027/2016).

68. M. Filip, L. Silaghi-Dumitrescu, D.Prodan, C. Sarosi, **M. Moldovan**, I. Cojocaru, Analytical Approaches for Characterization of Teeth Whitening Gels Based on Natural Extracts, *Key Engineering Materials*, ISSN: 1662-9795, **2017**, 752, 24-28.

69. T. Gherman, **M. Moldovan**, M. Filip, A.Trifoi, M. Râpă, S.Cuc, Effect of PEG Content on the Mechanical Properties of Bis- GMA/TEGDMA/UDMA Dental Resin Composites, *Key Engineering Materials*, ISSN: 1662-9795, **2017**, 752, 3-10.

70. Baldea, I., Olteanu, D.E., Filip, A.G., Cenariu, M., Dudea, D., Tofan, A., Alb, C., **Moldovan, M.,** *Toxicity and efficiency study of plant extracts-based bleaching agents***,** Clinical Oral Investigations, 21, 4, , 1315-1326, **2017**, DOI: 10.1007/s00784-016-1882-4

71. Molea, A., Popescu, V. Popescu, G.L., Suciu, R.C., Dinescu, A., **Moldovan, M.,** *Synthesis and characterisation of titanium dioxide nanoparticles sensitised with natural chlorophyll dye extracted from Mentha leaves*, Journal of Optoelectronics and Advanced Materials, 19(3-4), 272-27, **2017**

72. Mahmoud, E., Pacurar, M. Bechir, E.S., Maris, M., Olteanu, C., Dascalu, I.T., Moldovan, M., *Comparison of shear bond strength and adhesive remnant index of brackets bonded with two types of orthodontic adhesives,* Materiale Plastice, 54(1), 141-144, **2017**

73. Muntean, A., Mesaros, A.S., Porumb, A., Cuc S., **Moldovan, M**., Balan, A., Enamel apperance after orthodontic attachment removal in vitro SEM analysis, Revista de Chimie, 68(1), 125-127, **2017**

74. Coneac, A., Orăsan, M.S., Leucuţa, D.C., Orăsan, R.I., Moldovan, M., Effect of curcumin on oxidative stress in a model of turpentine induced acute experimental inflammation, Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 45(1), 65-74, **2017**

75. Patroi, D.N., **Moldovan, M**., Mitariu, I.S.C., Coman, C., Barbu, H.M., Water sorption and solubility in different environments of composite luting cements: An in vitro study, Materiale Plastice, 53(4), 646-652, **2017**

76. Roman, A., Páll, E.,**Moldovan, M.**, Rusu, D., Şoriţău, O., Feştilă, D., Lupşe, M., *Cytotoxicity of Experimental Resin Composites on Mesenchymal Stem Cells Isolated from Two Oral Sources,* Microscopy and Microanalysis,1-16, **2016**, DOI: http://dx.doi.org/10.1017/S1431927616011624

77. Cristina Prejmerean, Doina Prodan, Mihaela Vlassa, Mihaela Streza, Tinca Buruiana, Loredana Colceriu, Vasile Prejmerean, Stanca Cuc, **Marioara Moldovan**, *„ATR technique an appropriate method for determining the degree of conversion in dental giomers* Measurement Science and Technology, 27, **2016,** 124008, doi:10.1088/0957-0233/27/12/124008.

78. Chisnoiu, A.M., Chisnoiu, R., **Moldovan M.**, Lascu, L.M., Picoş, A.M., Etiological factors associated with temporomandibular joint disorder – Study on animal model**,** Romanian Journal of Morphology and Embryology,57, 1, 185-189, 2016

79. Chisnoiu, R., **Moldovan, M.**, Pstrav, O., Delean, A., Chisnoiu, A.M., The influence of three endodonic sealers on bone healing: An experimental study, Folia Morphologica (Poland), 75, 1, 14-20, **2016**, DOI: 10.5603/FM.a2015.0079

80. Cornea, D., Silaghi-Dumitrescu, L., Balazsi, R., Oprean, R., Dudea, D., **Moldovan, M.**, The study of pit and fissure sealants concerning water sorption and solubility, Studia Universitatis Babes-Bolyai Chemia, 61, 2, 239-248, **2016**

81. I.S. Pop-Ciutrila, D. Dudea, M.E. Badea**, M. Moldovan**, S.I. Cîmpean, R. Ghinea, Shade Correspondence, Color, and Translucency Differences between Human Dentine and a CAD/CAM Hybrid Ceramic System, Journal of Esthetic and Restorative Dentistry, 28 (S1), 46-55, **2016**, DOI: 10.1111/jerd.12195

82. A. Caracostea Objelean, A. Labunet, L. Silaghi-Dumitrescu, **M. Moldovan**, S. Sava, M. E. Badea*, In Vitro* Chewing Simulation Model Influence on the Adhesive-Tooth Structure Interface, Key Engineering Materials, 10.4028/www.scientific.net/KEM.695.77, **2016**, 695, 77-82

83. A.V. Burde, D. Dudea, S. Cuc, **M. Moldovan**, R. S. Campian, Three - dimensional Evaluations of the Coating Thickness of Two Optical Conditioning Scanning Sprays, Materiale Plastice, 53, 1, 65-67, **2016**

84. A.Muntean, A. Mesaros, D. Festila, **M. Moldovan**, M. Mesaros, In Vitro Microleakage Evaluation Around Three Types of Dental Sealants, Materiale Plastice, 53, 1,166-169, **2016**

85. A. Saplonţai-Pop, **M. Moldovan**, C.Ionescu, M. Suciu-Petrescu, I. Cojocaru, R. Oprean, Antiplatelet Effect Of Allium Cepa L. Extracts: A Short Review, Key Engineering Materials Submitted, vol 695, 303-308, **2016** 10.4028/www.scientific.net/KEM.695.303

86. C.Sarosi, Al.R. Biris, A.Antoniac, S.Boboia, C. Alb, I.Antoniac, **M.Moldovan,** The nanofiller effect on properties of experimental graphene dental nanocomposites, Journal of Adhesion Science and Technology, **2016**,30(16),1779-1794

87. **M.Moldovan**, D.Prodan, V.Popescu, C.Prejmerean, C.Sarosi, M.Saplonţai, S.Ţălu, E.Vasile, *Structural and morphological properties of HA-ZnO powders prepared for biomaterials,* Open Chemistry, 13, 725-733, **2015**

88. S. Boboia**, M. Moldovan**, A. Burde, I. Ardelean*, The effects of the curing regime and the composition on the absorption, solubility and the amount of residual monomers of dental flowable composites*, Journal of Optoelectronics and Advanced Materials, 17(9-10), 1487-1493, **2015**

89. S. Boboia, **M. Moldovan**, C. Prejmerean, C. Saroşi, A. Roman, I. Ardelean, *Influence of initiation system and filler ratio on the properties of new flowable dental composites*, Materiale Plastice, 52(1), 104-108, **2015**

90. A.Mesaros, B:Culic, C.Alb, M.Mesaros, **M.Moldovan**, L.Brucifre, M.Badea, *Influence of Accelerated Staining and Bleaching Procedures on the Shear-bond Strength Orthodontic Adhesives An in vitro study*, Revista de Chimie, 1, 66-69, **2015**.

91. A.Muntean, A.Mesaroş, D.Festila, **M.Moldovan**, S.Boboia, M.Mesaroş, Comparative in vitro study for orthodontic adhesives relatively to sorption and solubility, AIP Conference Proceedings 1700, 060008, **2015**

92. R.Chişnoiu, **M.Moldovan**, O.Păstrăv, A.Delean, D.Prodan, S.Boboia, V.Prejmerean, A.Chişnoiu, *Radiopacity measurements of three endodontic sealers using digital X-rays*, AIP Conference Proceedings 1700, 060010, **2015**

93. R. Chisnoiu, O. Pastrav, A. Delean, D. Prodan, S. Boboia, **M. Moldovan**, A. Chisnoiu, *Push - out Bond Strengths of Three Different Endodontic Sealers A comparative study*, Materiale Plastice, 52(2), 239-242, **2015**

94. I Cojocaru, **M. Moldovan**, C. Sarosi, D. Leordean, C. Alb*, Morphological Biodegradation and the Citotoxicity Effect of Some Experimental Biomaterials***,** Materiale Plastice, 52, 3, p.321-324, **2015**

95. S.Sava, **M. Moldovan,** C. Sarosi, A. Mesaros, D. Dudea, C. Alb, *Effects of Graphene Addition on the Mechanical Properties of Composites for Dental Restoration,* Materiale Plastice, 52, 1, p. 90-92, **2015**

96. R. Chisnoiu, **M. Moldovan**, O. Pastrav, A. Delean, A. M. Chisnoiu, *The influence of three endodontic sealers on bone healing – an experimental study,* Folia Morphologica"**DOI:** 10.5603/FM.a2015.0079, 4, **2015**

97. V. Popescu, A. Molea, A. Dinescu, C. Rusu-Trişcă, **M. Moldovan**, G. L. Popescu, *Optical properties of pbs crystals obtained on glass substrate from solutions containing hydroxylamine hydrochloride in an ultrasonic baths,* Chalcogenide Letters, 12, 7, 363 – 373, **2015**

98. A. Bebe, A. Pop, **M. Moldovan**, I. Ardelean, *The influence of silanized nano-SiO2 on the hydration of cement paste:*

NMR investigations, AIP Conference Proceedings 1700, 060006-5, **2015**

99. Ionas, **M, Moldovan**, M, Badea, ME, Bota, G , *The effect of surface preparation techniques on the color of dental composite resins immersed in different solutions*, Optoelectronics and Advanced Materials Rapid Communications, 9, 78, 1041-1046, **2015**

100. Saplontai-Pop,A , Mot. A, **Moldovan. M** ; Oprean. R, Silaghi-Dumitrescu, R, Orasan, O, Parvu, M, Gal, E, Ionescu, C, *Testing antiplatelet and antioxidant activity of the extract of seven varieties of Allium cepa L*., Open Life Sciences, 10, 1, 89-98, DOI: 10.1515/biol20150011, **2015**

101. M. Ionas, M. Eugenia Badea, L. Silaghi Dumitrescu, T. Ionas, **M. Moldovan.** *Influence of Wine Components on the Reflection Properties of the Visible Light of Dental Composites,* Materiale Plastice, 51(4), p.435-439, **2014**

102. Aniela Saplonţai-Pop, **Marioara Moldovan**, Radu Oprean, Olga Orasan, Stefan Saplontai, Corina Ionescu, *Correlation between the estimated total thiosulfinates content and antiplatelet activity of three different varieties A. Cepa,* Studia UBB Chemia, LIX, 4, p. 39-46, **2014**

103. Viorica Saplontai, Monica Saplontai, Ioan Roman, Dan Leordean, Roxana Trusca, Tamas Robert Toth, Ileana Cojocaru, Nicolae Balc, **Marioara Moldovan**, *Electrochemical and Structural Investigation on Ti6Al7Nb Alloy, Coated with Hydroxyapatite and Titanium Dioxide,* Rev. Chim., 65, No. 10 ,p. 1249-1252, **2014**

104. Ovidiu Cristian Pastrav, Ada Gabriela Delean, Codruta Sarosi, Laura Silaghi Dumitrescu, Anda Muntean, Marius Gociu, **Marioara Moldovan**, Translucence Study Through New Experimental Hybrid Composites, *Key Engineering Materials* Vol. 614, p. 148-154, **2014**, doi:10.4028/www.scientific.net/KEM.614.148

105. C.Sarosi, A.Antoniac, C. Prejmerean, O. Pastrav, D. Patroi, G. Popescu, **M. Moldovan,** *Hydrolytic degradation of dental composites*, Key Engineering Materials, Vol. 614 p. 113-117, **2014**, doi:10.4028/www.scientific.net/KEM.614.113

106. Colceriu, L., Cimpean, S., Nicola, C., Sava, S., Trif, M., Buruiana, T., **Moldovan, M**., Silaghi-Dumitrescu, L., Antoniac, A., Blajan, A.-I., Prejmerean, C., *Effect on adhesion to tooth structure for some experimental dental adhesive system Key Engineering Materials*, Vol. 614, p. 100-104, doi:10.4028/www.scientific.net/KEM. 614.100, **2014**

107. V. Prejmerean, L. Silaghi-Dumitrescu, D. Prodan, C. Prejmerean and **M. Moldovan**, *Study of some Dental Biomaterials Properties Using an Original Software Application***,** Key Engineering Materials,*vol.* 587, p.121-127, **2014**

108. D.Prodan, **M.Moldovan**, C.Prejmerean, L.Silaghi-Dumitrescu, S.Boboia, V.Popescu, V.Pascalau, A.Molea, D.Lazar, I.Perhaiţa*, Synthesis and characterization of an experimental Zn-hydroxyapatite powders with application in dentistry*, Key Engineering Materials, vol. 587, p 43-51, **2014**.

109. D. Prodan, M. Moldovan, G. Furtos, R. Chisnoiu, V. Popescu, O. Pastrav, "Achieving and evaluation by in vitro tests of new experimental endodontic sealers", in revista romana de materiale-romanian journal of materials, 44, 4, p. 414-420, **2014**

110. M.Gociu, D.Patroi, C.Prejmerean, O.Pastrav, S.Boboia, D.Prodan, **M.Moldovan**, *Biological test and cytotoxicity of dental materials in vitro,* Rom J Morphol Embryol, 54(2), p. 261–265, **2013**

111. D.Patroi, M. Gociu, C. Prejmerean, L.Colceriu, L. Silaghi Dumitrescu, **M. Moldovan,** *Assessing the biocompatibility of the dual polymerisation system produc, Rom J Morphol Embryol*, 54(2): 321–326, **2013**

112. M. R. Filip, A. Pop, I. Perhaiţa, **M.Moldovan**, R.Truşcă, *Investigation of thermal and catalytic degradation of polystyrene waste into styrene monomer over natural volcanic tuff and Florisil catalysts,* Cent Eur J Chem, 11(5), p.725-736, **2013**

113. S. Boboia**, M. Moldovan**, I. Ardelean, *Determination of residual monomers resulting from chemical polymerization process of dental materials*, AIP Conference Proceedings 1565, p. 90-93, **2013**

114. L. Silaghi Dumitrescu, O. Pastrav, C. Prejmerean, D. Prodan, S. Boboia, S. Codruta, **M. Moldovan**, *The translucency of dental composites investigated by UV-VIS spectroscopy*, AIP Conference Proceedings 1565, p. 151-155, **2013**

115. Violeta Pascalau, Violeta Popescu, George L. Popescu, Mircea C. Dudescu, Gheorghe Borodi, Adrian M. Dinescu, and **Marioara Moldovan,** *Obtaining and Characterizing Alginate/k-Carrageenan Hydrogel Cross-Linked with Adipic Dihydrazide,* Advances in Materials Science and Engineering, Article ID 380716, 12 pages, http://dx.doi.org/10.1155/2013/380716, **2013**

116. M.Saplontai, N.Balc, V.Saplontai, I.Cojocaru, R.Toth, **M. Moldovan,** Synthesis and characterization of nano hydroxyapatite used for immobilizing heavy metals, Review of Chemistry,63, 12, p. 1228- 1230, **2012**

117. A. Soanca, A. Roman, M.Moldovan, I.Perhaita, L.Barbu Tudoran, M. Românu, *Study on thermal behavior, structure and filler morphology of some indirect composite resins*, Digest Journal of Nanomaterials and Biostructures, 7(3), p.1071 – 1081, **2012**

118. M. Ionas, **M. Moldovan**, M.Trif, C. Sarosi, C. Alb, T.Ionas, G. L. Popescu, *Qualitative Evaluation by Means of SEM on the Qualities of the Hybrid Layer Formed by an Experimental Self Etching Adhesive,* Review of Chemistry, 62, 5, p.514-517, **2011**

119. G. Furtos, L. Silaghi-Dumitrescu, **M. Moldovan**, B. Baldea, R. Trusca, C. Prejmerean. *Influence of filler/reinforcing agent and post-curing on the flexural properties of woven and unidirectional glass fiber reinforced composites,* 47, p.3305-3314, **2012**

120. G. Furtos, B. Baldea, L. Silaghi-Dumitrescu, D. Bratu, **M. Moldovan**, C. Prejmerean, "Measuring the Radiopacity of Flowable Resin Composites Using Scanned Radiograph Images", Particulate Science and Technology, 30, 5, p. 391-402, **2012**.

121. G.Furtos, L. Silaghi-Dumitrescu, **M. Moldovan**, B. Baldea, R. Trusca, C. Prejmerean, "Influence of filler/reinforcing

agent and post-curing on the flexural properties of woven and unidirectional glass fiber-reinforced composites", Journal of Materials Science, 47, 7, p. 3305-3314, **2012**

122. C. Prejmerean, M.Tomoaia-Cotisel E. Vasile G. Furtos L. Pop, **M. Moldovan**, C. Sarosi, I.Petean, C*haracterisation of surface organisation and morphology of some new experimental dental resin-based composites,* Int. J. Nano and Biomaterials, 3, 4, **2011**

123. A. Soanca, M. Rominu, **M. Moldovan**, C. I. Bondor, C. Nicola, A. Roman , *Microscopic evaluation of the interface between composite biomaterials and dentin biostructure,* Digest Journal of Nanomaterials and Biostructures , 6, 1 , p. 383 – 392, **2011**

124. **M. Moldovan,** L. Silaghi-Dumitrescu, C. Prejmerean, D. Dudea, V. Popescu, S. Boboia, D. Prodan, I. Cojocaru, *The Effect of Experimental Bleaching Agent on Coloured Dental Composites,* Plastics Materials,Vol.47, No.4, p. 421-425, **2010**

125. M. Ionaş, **M. Moldovan**, V. Pascalău, A. Delean, T. Ionaş, The effect of the light curing source and of the photoinitiation system on the light cured adhesive systems, Optoelectronics and Advanced Materials–Rapid Communications,4, 8, p.1215 – 1218, **2010**

126. R. R. Cara, C. Nicola, C. Prejmerean, S. Sava, G. Băciut, M. Băciut, S. Bran C. Bondor, D.Prodan, **M. Moldovan**, T. Buruiană, I. Pătraşcu, *Influence of Bis-GMA Derivative Monomer-Based Particulate CompositeResins on the Cuspal Deformation and Microleakage of Restored Teeth,* Particulate Science and Technology: An International Journal, 28, 3, p.191 – 206, **2010**

127. V.Popescu**,** N. Jumate, G.L.Popescu, **M.Moldovan**, C.Prejmerean, *Studies of some electrical and photoelectrical properties for PbS film obtained by sonochemical methods,* Chalcogenide Letters, 7, 1, p. 95 – 100, **2010**

128. D.Dudea, **M.Moldovan,** L.Silaghi-Dumitrescu, H.Colosi, A.Botos, A.Irimie, C.Alb, *In vitro study on the effectiveness of a group of experimental hydrogen peroxide and carbamide peroxide bleaching gels upon dental enamel,* Studia Universitatis Babeş-Bolyai, Chemia, LV, 1, p.66-75**, 2010**

129. C Alb, S Alb, D Dudea, C Nicola, **M Moldovan**, B Culic, S Buduru, A Mesaros. In vitro testing of an experimental dental composite resin and adhesive system, Rev Med Chir Soc Med Nat, 114(1), p.227-32, **2010**

130. **M.Moldovan**, A.Almasi, C.Prejmerean, O.Musat, L.Silaghi-Dumitrescu, C.Nicola, I.Cojocaru, O.Pastrav, *The study the some experimental and commercial nanocomposites used in dentistry,* Plastics Materials, MPLAAM, 46(4), p.404-409, **2009.**

131. I.Cojocaru, **M.Moldovan**, M.Trif, D.Prodan, G.L.Popescu, I.Constantinescu, *The influence of some alumina and titanium nanoparticles on the mechanical properties of the composites based on poly (methyl methacrylate),* Plastics Materials, MPLAAM, 46(4), p.383-386, **2009**.

132. C.Alb, **M.Moldovan**, C.Prejmerean, M.Trif, C.Sarosi, D.Dudea, V.Simon, *Microstructure, mechanical properties and tissue/biomaterial interface behaviour of new dental restorative composites,* Optoelectronics and Advanced Materials–Rapid Communications, 3, 4, p.350–355, **2009**

133. V.Popescu, C.Vasile, M.Brebu, G.L.Popescu, **M.Moldovan**, C.Prejmerean, L.Stănuleţ, C.Trişcă-Rusu, I.Cojocaru, *The characterization of recycled PMMA,* Journal of Alloys and Compounds, 483, p. 432–436, **2009**

134. V.Popescu**,** G.L.Popescu, **M.Moldovan**, C.Prejmerean, *Photosensitization of PbS films by thermal treatment in controlled environment,* Chalcogenide Letters, 6, 9, p.503–508, **2009**

135. A. Popovici, C.Nicola, **M.Moldovan**, C.I.Bondor, C.Badetb, A.Roman, G.Băciuţ, M.Băciuţ, S.Bran, *A microleakage comparative study for indirect composite restorations on posterior teeth*, Journal of Optoelectronics And Advanced Materials, 11, 4, p.490–493, **2009**

136. A.Popovici, M.Trif, **M.Moldovan**, O.Fodor, C.Nicola, D.Borzea, *Scanning electron microscopy evaluation of composite inlays luted with different adhesive systems,* Journal of Optoelectronics and Advanced Materials - Rapid Comunications, 6, 3, p.616-620, **2009**

137. S. Simon, R.V.F. Turcu, T. Radu, **M. Moldovan**, V. Simon, *Multispectroscopic investigation of silanised glass particles for dental fillers,* Journal of Optoelectronics And Advanced Materials, 11, 11, p.1660–1670, **2009**

138. T.Buruiana, E.C.Buruiana, V.Melinte, A.Colceriu, **M.Moldovan,** Urethane dimethacrylate oligomers for dental composite matrix. Synthesis and properties, Polymer Engineering and Science, 49, 6, p.1127–1135**, 2009**

139. C. Nicola, S.Sava, **M.Moldovan**, C.Prejmerean, M.Romînu, C.Bondor, D.Dudea, F.Zeno, *Effect of adhesive system on microleakage in class II direct composite restorations*, Journal of Optoelectronics and Advanced Materials, 10, 4, p. 954–957, **2008**

140. T.Buruiana, E.C.Buruiana, V.Melinte, V.Pohoata, C.Prejmerean, **M.Moldovan,** *New urethane dimethacrylate for testing in dental applications. Relational aspects in chemistry and photochemistry of composite materials*, Journal of Optoelectronics and Advanced Materials, 10, 4, p.969-974, **2008**

141. C.Prejmerean, Gh.Tomoaia, M.Tomoaia-Cotisel, A.Mocanu, O.Horovitz, **M.Moldovan**, D.Dudea, G.Voicu, I Petean, *Surface organization and stability of some composites exposed to biologic medium. Atomic force microscopy observation,* Journal of Optoelectronics and Advanced Materials., 10, 3, p.597-601, **2008**

142. A. Popovici, O. Fodor, **M. Moldovan**, A. Roman, D. Borzea, In vitro study of a new composite biomaterial for indirect restorations, Journal of Optoelectronics and Advanced Materials- Rapid Comunications, 2, 12, p.891-894, **2008**

143. M.Trif, **M.Moldovan**, C.Prejmerean, C.Tamas, G.Furtos, A.Colceriu, D.Prodan, L.Silaghi, *Microcristaline hydroxyapatite. Obtaining and investigation,* Journal of Optoelectron Advanced Material, 9, 11, p.3312–3315, **2007**

144. **M.Moldovan**, C.Prejmerean, A.Colceriu, C.Tamas, G.Furtos, D.Prodan, M.Trif, C.Alb, S.Neamt, V. Popescu, *Effect*

of coupling agents on the local mechanical properties of bioactive dental composites, Journal of Optoelectronics and Advanced Material, 9, 10-11, p.3415-3418, **2007**

145. A. Colceriu, T. Buruiana, **M. Moldovan**, C.Prejmerean, C.Tamas, O.Fodor, L.Oprean, V.Popescu, *The characterization of some new dental composites,* Optoelectronics and Advanced Materials – Rapid Communications, 1, 5, p.231-234, **2007**

146. E.C.Buruiana, T.Buruiana, V.Melinte, M.Zamfir, A.Colceriu, **M.Moldovan,** *Synthesis of oligomeric urethane dimetacrylates with carboxylic groups and their testing in dental composites*, Journal of Polymer Science: Part A: Polymer Chemistry, 45, p.1956-1967, **2007**

147. V. Simon, A. Colceriu, C. Prejmerean, **M. Moldovan**, M. Prinz, M. Neumann, *X-ray photoelectron spectroscopic study of composite glass fillers*, Journal of Optoelectron Advanced Materials, 9, 11, **2007**

148. T.Buruiana, E.C.Buruiana, **M.Moldovan,** *Synthesis and properties of polyurethane cationomers with urethane-cholesteryl and dodecylmethylammonium moieties,* Designed Monomers and Polymers, 9, 1, p. 41-53, **2006**

149. A. Gritco, **M.Moldovan**, R. Grecu, V. Simon, *Thermal and infrared analyses of aluminosilicate glass systems for dental implants,* Journal of Optoelectronics and Advanced Materials, 7, 6, p.2845–2847, **2005**

150. C.Tamas, **M.Moldovan**, C.Prejmerean, A.Colceriu, G.Furtos, L.Vezsenyi, D.Prodan, R.Grecu, V.Simon, *Structure and properties of inorganic fillers for dental composites,* Journal of Optoelectronics and Advanced Materials, 7, 6, p.2849–2852, **2005**

151. G. Furtos, V. Cosma, C. Prejmerean, M. Moldovan, M. Brie, A. Colceriu, L. Vezsenyi, L. Silaghi-Dumitrescu, C. Sirbu, "Fluoride release from dental resin composites", Materials Science & Engineering C-Biomimetic And Supramolecular Systems, 25, 2, p. 231-236, **2005**

152. V. Popescu, H. Nascu, I.Pop, L.Marta, **M. Moldovan**, M.Rosu, M.Filip, The composition influence of PbS films on photosensitivity, Roumaine Review of Chemistry, 54, 6, p.484-486, **2003**

153. M. Brie, L. Kekedy, **M.Moldovan**, C.Prejmerean, R. Grecu, G. Furtos, A.Colceriu, Preparation of X-ray opaque dental composite materials and evaluation their radiopacity, Roumaine Review of Chemistry, 48, 6, p.445-454, **2003**

154. M. Brie, C. Prejmerean**, M. Moldovan**, G. Furtos, I. Silberg, *Obtaining and characterizing some composites based on polyelectrolytic systems modified with compatible monomers and superficially active glass,* Roumaine Revue of Chemistry, 47, p.187–192, **2002**

155. C.Prejmerean**, M. Moldovan**, M. Brie, G. Furtos, D. Prodan, *Synthesis of modified Bis-GMA and their influence on diacrylic composite properties used for dentistry,* Roumaine Review of Chemistry, 52, 9, p.500-506, **2001**

156. O.Muşat, **M. Moldovan**, M.Brie, C.Prejmerean, M.Vezsenyi, *The influence study of inorganic fillers on the characteristics of light-curing composition for post dental restorations,* Roum. Rev. of Chemistry, 52, 1-2, p.57-62, **2001**

157. **M. Moldovan**, C.Prejmerean, M. Brie, V.Popescu, G. Furtos, The influence of the reinforcing materials dental the properties of the dental composites, Studia Universitatis Babeş-Bolyai, Chemia, XLVI, 1-2, p.207-212**, 2001**

158. C.Prejmerean, M.Vezsenyi, **M. Moldovan**, R.Grecu, O.Muşat, M.Brie, *The synnthesis of Bis-GMA oligomers and their effects upon the properties of some experimental dental composites,* Roumaine Review of Chemistry, 45, 6, p.567-577, **2000**

159. M.Brie, R.Grecu, **M.Moldovan**, C.Prejmerean, O.Muşat, M.Vezsenyi, The optical properties of some dimethacrylic composites Materials Chemistry and Physics, 60, p.240-246, **1999**

ABSTRACTE PUBLICATE IN REVISTE INTERNATIONALE COTATE ISI

1. **M.Moldovan**, C.Prejmerean, D.Prodan, L.Slilaghi-Dumitrescu, R.Carpa, S.Pruneanu, C.Sarosi, Antibacterial activity and flexural strength for experimental composites with graphene, Dental Materials, **2017**, 33, e54-e55,https://doi.org/10.1016/j.dental.2017.08.107
2. **M. Moldovan**, C.Prejmerean, V.Popescu, C.Sarosi, D.Prodan, I.Baldea, I.Cojocaru, The effect of bleaching agents on the surface hardness and biological test upon composite materials, European cells & materials, **2015**; Supl0:53, http://www.ecmjournal.org/journal/supplements/vol030supp01/pdf/vol030supp01a053.pdf
3. A.Colceriu, C.Fratila, I.Roman, **M.Moldovan**, M.Trif, C.Prejmerean, C.Tamas, *Microstructural and citotoxicity evaluation for different surface treatments of TA6V4 alloy,* European Cells and Materials, Vol.16, Suppl.1, p.29, **2008,** ISSN 1473-2262
4. A.Colceriu, **M.Moldovan**, C.Prejmerean,T.Buruiana,E.C.Buruiana, G.Furtos, L.Vezsenyi, D. Prodan, C.Tamas, *Nanocomposite used in dentistry,* European Cells and Materials Journal, Vol.10. Suppl.1, p.19, **2005**, ISSN 1473-2262
5. C.Tamas, C. Prejmerean, **M. Moldovan**, A.Colceriu, L.Vezsenyi, G.Furtos, D.Prodan, *Water sorption of some experimental dental composites based on (modified-Bis-GMA) superior olygomers,* European Cells and Materials Journal, Vol.10. Suppl.1, p.33, **2005**, ISSN 1473-2262
6. L.Colceriu, S.Cimpean, A.Pop, **M.Moldovan**, A.Colceriu, *Using mineral trioxide aggregate and calcium hydroxide as a pulp-capping materials,* European Cells and Materials Journal, Vol.10. Suppl.1, p.20, **2005,** ISSN 1473-2262
7. I.A.Tig, O.Fodor, **M.Moldovan,** *Comparative SEM observation of classical and bonded amalgam restorations,* European Cells and Materials Journal, Vol.10. Suppl.1, p.34, **2005,** ISSN 1473-2262
8. O. Fodor, I. Tig, **M.Moldovan,** *In vitro" evaluation of the composite adhesion to dentine,* European Cells and Materials Journal, Vol.10. Suppl.1, p.3, **2005**, ISSN 1473-2262

9. C. Alb, M.Manole, S. Alb, **M. Moldovan**, D. Dudea, *The structure, composition and visual opacity of some dental composite resins,* European Cells and Materials Journal, Vol.10. Suppl.1, p.10, **2005,** ISSN 1473-2262
10. **M. Moldovan**, C.Prejmerean**,** D.Borzea, C.Nicola, A.Farcas, A.Colceriu, G.Furtos, L.Vezsenyi, S.Sava, *Filler Systems, Interface and Radiopacity of some New Light-Curing Composite Materials, European Cells and Materials Journal, Vol.9, Suppl.1, p.7-8, **2005***
11. C.Prejmerean, **M. Moldovan**, L. Vezsenyi,D. Borzea, C.Nicola, S.Sava, & A.Farcas, *Influence of the chemical composition upon the properties of some experimental dental indirect resin composites,* European Cells and Materials Journal, Vol.9, Suppl.1, p.10-11, **2005**
12. S.Sava, D.Borzea, C.Nicola, A. Delean, C.Prejmerean, **M. Moldovan**, *Study of the toxicological, biological and clinical properties for new restorative material,* European Cells and Materials Journal, Vol.9, Suppl.1, p.9, **2005**
13. C.Nicola, S.Sava, D.Borzea, **M. Moldovan,** C.Prejmerean, *An experimental dental indirect composite resin-biological and clinical trials,* European Cells and Materials Journal, Vol.9, Suppl.1, p.12-13, **2005**

ARTICOLE B$^+$ PUBLICATE IN REVISTE NATIONALE SI INTERNATIONALE

14. Dascalu M.L., Sarosi C., **Moldovan M**., Badea M.E. *A study on revealing agents in the context of photodynamic therapy in dental medicine - A literature review*, Defect and Diffusion Forum, 376, pp. 54-65, **2017**
15. Hrab, D., Chisnoiu, A.M., Badea, M.E., **Moldovan, M**., Chisnoiu, R.M., Comparative radiographic assessment of a new bioceramic-based root canal sealer, Clujul Medical, 90(2), 226-230, **2017**
16. S.C. Cosma, N. Balc, D. Leordean, **M. Moldovan,** M. Dudescu, C. Borzan, *Customized medical applications of selective laser melting manufacturing,* Academic Journal of Manufacturing Engineering; 13(1):24-32, **2015**
17. S.C. Cosma, N. BALC, **M. Moldovan**, C. S. Miron-Borzan, *Surface treatments applied on titanium implants,* Ovidius University Annals of Chemistry, 26, 1, 41 - 48, **2015**, doi: 10.2478/auoc-2015-0008
18. **M. Moldovan**, D.Pordan, C. Prejmerean, C. Saroşi, V. Eugen and A. Saplonţai-Pop, *Obtaining and characterisation of hydroxyapatite–zirconia powders by chemical precipitation,* International Porous Powder Materials Symposium and Exhibition, Sep 03 -06, **2013** in Cesme, Izmir – Turkey, Conference Proceedings, p.222-226, **2013**; ISBN: 978-975-6590-05-8
19. I. Cojocaru, S. Boboia, V. Saplontai, D. Prodan, L. Silaghi Dumitrescu, **M. Moldovan,** *Preparation and characterization of the composites with HA/ZrO_2/poly(methyl methacrylate)*, International Porous Powder Materials Symposium and Exhibition, Sep 03 -06, **2013** in Cesme, Izmir – Turkey, Conference Proceedings, p.160-163, **2013**; ISBN: 978-975-6590-05-8
20. I. Cojocaru, S.Boboia, V. Saplontai, M. Saplontai, **M.Moldovan,** *Study of biofilms with hydroxyapatite- poly(methyl methacrylate),* Annals of the University of Craiova, XVII (LIII), p.615-18, **2012**
21. R. T. Toth, V.Saplontai, D.Dobrean, M.Saplontai, C. Plesa, **M.Moldovan**, R. Morar **,** *Combined electrostatic separation and classc methods of recycling plastics from end-of-life vehicles,* Buletinul AGIR no. 3, p.887-892, **2012**
22. I. A. Tig, O. Fodor, **M. Moldovan**, H. Câlniceanu, *Comparative observation of SEM images of amalgam-tooth interface in classical and bonded amalgam restorations,* Romanian Dentistry Review, Vol.LVI, No.1, **2010**
23. I. A. Tig, O. Fodor, **M. Moldovan**, H. Câlniceanu, *Analysis of composite resins surface and of their interface with adhesive resins, Romanian Dentistry Review,* Vol.LVI, No.3, **2010**
24. **M.Moldovan**, C.Prejmerean, M.Trif, L.Silaghi Dumitrescu, O.Musat, D.Prodan, C.Sarosi, G.Furtos, I.Roman, S.Boboia, *Interaction between biocomposites and co alloys for dental crowns,* Metal Elements in Environment, Medicine and Biology,Tome IX, Cluj University Press, p.148-153, **2009**; ISBN 978-973-620-437-1
25. C.Alb, O.Fodor, I.Tig, **M.Moldovan**, S.Campian, C.Sarosi, D.Dudea, A.Popovici,*Tensile bond strength of four adhesive systems,* UASVM Bulletin, Veterinary Medicine, Vol.66, No.1, p.188-195, **2009**; ISSN1843-5270, Electronic ISSN 1843-5378
26. **M.Moldovan**, T.Buruiana, M.Trif, C.Prejmerean, D.Prodan, G.Furtos, L.Silaghi-Dumitrescu, V.Popescu, S.F.Alb, Structural properties and resistance against abrasion of some new dental materials, UASVM Bulletin, Veterinary Medicine, Vol.66, No.1, p.213-219, **2009,** ISSN1843-5270, Electronic ISSN 1843-5378
27. M.Trif, **M.Moldovan**, C.Prejmerean, C.Tamas, D.Prodan, L.Silaghi-Dumitrescu, C.Trisca-Rusu, *Study of dental restorative materials by SEM microscopy,* Journal of Optoelectronics and Advanced Materials-Symposia, Vol.1, No.1, p.78–81, **2009**
28. L.Silaghi-Dumitrescu, C.Prejmerean, **M.Moldovan**, G.Furtos, A.Colceriu, V.Prejmerean, C.Tamas, D.Prodan, M.Trif, *Discoloration of some experimental dental composites,* Journal of Optoelectronics and Advanced Materials-Symposia, Vol.1, No.1, p.74-77, **2009**
29. A.Popovici, M.Trif, C.Nicola, **M.Moldovan**, O.Fodor, A.Roman, S.Sava, T.L.Barbu, *Comparative study regarding some experimental hydroxyapatite adhesive systems,* Journal of Optoelectronics and Advanced Materials-Symposia, Vol.1, No.1, p.20–23, **2009**
30. M.Ionaş, **M.Moldovan**, V.Paşcalău, A.Fraţilă, C.Boitor, A.Delean, T.Ionaş, *Quantity variation of residual monomer of two commercial adhesive systems in time,* Romanian Dentistry Review, , No.3, p.177-181, **2009,** ISSN 1843-0805
31. M. Ionaş, A. Delean, **M. Moldovan**, T.Ionaş, *SEM evaluation of adhesion quality obtained with a total-each adhesive in two-stroke,* Cluj Medical, Vol.LXXXII, No.4, p.505-508, **2009,** ISSN 1222-2119
32. M.Ionaş, **M.Moldovan**, T. Ionas, *Study the double residual variation of a commercial etch adhesive,* Acta Medica

Transilvania Review, Nr.1, p.85-88, **2009**, ISSN-1453-1968

33. D. Dudea, S. Neamţu, A.Florea, **M.Moldovan**, M. Badea, L.Silaghi-Dumitrescu, C. Nicola, *Study the side effects of an experimantal bleaching gel on dental enamel*, Cluj Medical, Vol.82, No.1, p.123-128, **2009**
34. C.Alb, **M.Moldovan**, C.Prejmerean, D.Prodan, M.Trif, C.Sarosi, L.Silaghi-Dumitrescu, V. Pascalau, *"The effect of ZrO_2 and ZrO_2-SiO_2 nanostructured filler particles on polymeric composites for thin dental coatings,* Studia Universitas Babes-Bolyai, Physica, Vol.LIII, No.2, p.95-102, **2008**
35. **M. Moldovan**, C. Fratila, I. Roman, M. Trif, C. Prejmerean, C. Tamas, D. Prodan, A. Colceriu, G. Furtos, L.Silaghi-Dumitrescu, I. Baldea, *Surface treatments of TA6V4 alloy in relation with microstructure and cytotoxicity,* "Research of Excellence-Romanian favorable premise for the development of space research", Tehnica Publisher, Brasov, Vol.1, No.2, p.1-6, **2008**
36. C. Prejmerean, **M. Moldovan**, T.Buruiana, A.Badanoiu, G.Voicu, M. Trif, G. Furtos, D. Prodan, A. Colceriu, C. Tamas, *Microstructure and mechanical properties of some dental resin modified glass ionomer cements,* Research of Excellence-Romanian favorable premise for the development of space research", Tehnica Publisher, Brasov, Vol.1, No.132, p.1-6, **2008**
37. O. Fodor, I. Tig, **M. Moldovan**, S. Cîmpean, I. Filimon, *The water effect on the composite resin-dentin adhesio*n, Review Medicine Chir.Soc. Med Iasi, No.1, Supl.1, **2008**
38. O. Fodor, I. Tig, **M. Moldovan**, A. Popovici, A.Pop, Dental adhesives as means of protection for dentin wound: A study of electronomicroscopic, Transylvania Dental, No.2, **2007**
39. O. Fodor, I. Tig, **M. Moldovan**, A. Popovici, A.Pop, Mechanical properties of four resins composite, Transylvania Dental, No.2, **2007**
40. I.A. Tig, O.Fodor, **M. Moldovan**, A. Pop , Adhesive bond strength appreciation in case amalgam obturation, Transylvania Dental, No.2, **2007**
41. I.A. Tig, O.Fodor, **M. Moldovan**, A.Pop, *Comparative observatin on the electronmicroscopy of tooth-filing interface in classical and adhesive amalgam fillings,* Transylvania Dental, No.2, **2007**
42. **M.Moldovan**, C.Prejmerean, D.Prodan, G.Furtos, A.Colceriu, C.Tamas, M.Trif, L.Silaghi-Dumitrescu, *New indirect restorative materials,* Workshop on nanoscience and nanotechnology. Biomaterials Design and Applications, Predeal, Romania, p.347-352, **2007**
43. C.Prejmerean, **M.Moldovan**, R.Setnescu, G.Furtos, A.Colceriu, C.Tamas, D.Prodan, M.Trif, L.Silaghi-Dumitrescu, *Color changes versus stabilization of dental resin composites,* Workshop on nanoscience and nanotechnology. Biomaterials Design and Applications, Predeal Romania, p.135-142, **2007**
44. V. Popescu, G. Popescu, E. Indrea, **M. Moldovan,** *Structural properties of thin PbS, CuS and CdS films obtained by chemical methods,* Bulletin of the Transilvania University of Brasov, Workshop: Thin Films Design and Applications, BRAMAT, **2007**
45. M.Trif, **M.Moldovan**, C.Prejmerean, I.Roman, C.Tamas, D.Prodan, A.Colceriu, G.Furtos, L. Silaghi-Dumitrescu, *Microstructural investigation at the interface alloy/composite with hydroxyapatite,* Research of Excellence-Romanian favorable premise for the development of space research", Tehnica Pubilsher, Brasov, No.2, p.1-6, **2007**
46. C. Prejmerean, **M. Moldovan**, T.Buruiana, A.Badanoiu, G.Voicu, M. Trif, G. Furtos, D. Prodan, A. Colceriu, C. Tamas, *"Relationship between resin matrix and the properties of some experimental dental resin modified glass ionomer cements"*"Research of Excellence-Romanian favorable premise for the development of space research", Tehnica Publisher, Brasov, No.132, p.1-6, **2007**
47. **M. Moldovan**, C. Prejmerean, V. Popescu, A. Colceriu, G. Furtos, C. Tamas, M.Bârsan, D. Prodan, M. Trif, Ceramic biomaterials used in medicine, Research of Excellence-Romanian favorable premise for the development of space research", Printech Publisher, Braşov, Vol.1. L1-16, p.1-4, **2006**
48. S.Simon, M.Vasilescu, **M.Moldovan**, V.Simon, NMR and IR investigation of aluminosilicate glasses as components of dental materials, Studia Universitatis Babeş-Bolyai, PHYSICA, Vol.50, No.2, p.87-92, **2005**
49. D.Borzea, C.Nicola, S.Sava, A.Delean, **M.Moldovan**, C.Prejmerean, G.Furtos, A.Colceriu, Chemical composition and properties of dental biocomposites used as restorative materials and as pit and fissure sealants, Cluj Medical, Vol.LXXVII, No.1, p.121-126, **2004**
50. L.Vezsenyi,C.Prejmerean, **M.Moldovan**, G.Furtos, A.Colceriu, R.Grecu, L.Silaghi- Dumitrescu, N.Cazangiu, *"Structural Characterization of the Dental Resins Used in Inlay-Onlay Techniques,* Proc.Rom.Acad.,Series B, No.2, p.95-99, **2004**
51. C.Prejmerean, **M. Moldovan**, M. Brie, G. Furtos, A. Colceriu, Influence of chemical composition upon the proprieties of some experimental dental resin-modified glass ionomer composites, Proc.Rom.Acad, No.1, p.15-21, **2004**
52. C.Prejmerean, **M. Moldovan,** M. Brie, G. Furtos, A. Colceriu, L. Vezsenyi, Properties of some experimental self-curing and light-curing dental composites versus composition of resin matrix, Proc. Rom. Acad, No.1, p.7-13, **2004**
53. **M. Moldovan,** C.Prejmerean, V.Popescu, N. Jumate, G. Furtos, A. Colceriu, *Properties of photopolymerizable dental composite materials with hybrid filler based on strontium and zinc glasses,* Acta Technica Napocensis, No.45, p.187-192, **2002**
54. C.Prejmerean, **M. Moldovan**, M. Brie, A. Mateiu, G. Furtos, Determination of the quantity of residual double bonds in dental polymers, Proc.Rom. Acad, Series B, No.2, p.91-97, **2001**
55. **M. Moldovan,** C. Prejmerean**,** M. Brie, V. Popescu, M. Vezsenyi, G. Furtos, *Comparison of quartz, porcelain and*

(washed and unwashed) glass used as fillers in dental composites, Annals of Oradea University, Chemical Fascicola IX, p.283–288, **2002**

56. **M. Moldovan,** C.Prejmerean, M. Brie, V.Popescu, M.Vezsenyi, G. Furtos, Fillers systems used indental posterios composites, Annals of Oradea University, Chemical Fascicola VIII, p.283–288, **2001**
57. C.Prejmerean, **M. Moldovan**, M.Brie, R.Grecu, M. Trif, M.Vezsenyi, O.Muşat, *Influence of the chemical nature of polyalkenoic acids and superficially active glasses on the proprties of some experimental dental ionomer cements,* Proc. Rom. Acad, Series B, No.2, p.117-125, **2000**
58. C.Prejmerean, R.Grecu, M.Brie, O.Muşat, M.Vezsenyi, **M. Moldovan,** *Influence of the chemical composition of some experimental dimethacrylic primers on the adhesion of the restorative composite resins to dental enamel,* Proc. Rom. Acad., Series B, No.3, p.197-203, **2000**
59. **M. Moldovan,** C.Prejmerean, D.Prodan, M.Brie, L.Pascu, G.Furtos, M.Vezsenyi, C.Măruţoiu, *The influence of some mixed fillers on physical and chemical stability of dental hybrid composites,* Acta Universitatis Cibiniensis, Seria F,No.2, p.51– 62, **2000**

CARTI si CAPITOLE DE CARTE

1. Rusu ML, **Moldovan M**, Chifor R, Chifor I, Prodan D, Filip M, Badea ME. Medicina dentara de la cercetare la practica- Studiu privind proprietatile fizico-chimice si mecanice ale unor revelatori naturali utilizati in terapia fotodinamica. a8-a ed. Cluj-Napoca (Romania): Colorama; 2018, P.74-83.
2. Chifor I, Chifor R, Rusu (Dascalu) ML, Rotar A, Picos A, **Moldovan M**, Badea I, Badea M. Medicina dentara de la cercetare la practica- Aplicatii ale terapiei fotodinamice pentru controlul biofilmului oral. a8-a ed. Cluj-Napoca (Romania): Colorama; 2018, P.63-74.
3. Cosmin COSMA, Nicolae BALC, **Marioara MOLDOVAN,** Petru BERCE, Medical applications of macro-porous structures additive manufactur, Chapter 2. Medical Applications of Macro-Porous Structures Additive Manufactured, in R. Dobrina (EDd), ADVANCED INDUSTRIAL ENGINEERING - NEW TENDENCIES IN MATERIAL ENGINEERIN, G Wydawnictwo Fundacji Centrum Nowych Technologii, Bielsko-Biala, Poland, ISBN 9788394970929, 47-64, (**2017)**
4. Cosmin COSMA, Nicolae BALC, **Marioara MOLDOVAN**, Petru BERCE*, Surface treatments applied on titanium implat*, Chapter 2. Medical Applications of Macro-Porous Structures Additive Manufactured, in R. Dobrina (EDd), ADVANCED INDUSTRIAL ENGINEERING - NEW TENDENCIES IN MATERIAL ENGINEERIN, G Wydawnictwo Fundacji Centrum Nowych Technologii, Bielsko-Biala, Poland, ISBN 9788394970929, 65-84, **(2017**)
5. Codrula Sarogi, Marcela Rosu, Cristina Prejmerean, Laura Silaghi-Dumitrescu, Stanca Cuc, Doina Prodan, **Marioara Moldovan**, Cercetarea in medicina dentara-proprietati optice ale dintilor si materialelor dentare, Cap: Efectul diferitelor bauturi asupra stabilitatii culorii nanocompozitelor experimentale cu grafene, Editura Colorama, ISBN 978-606-9389-6-4, 95-101, (**2016)**
6. **M.Moldovan**, C.Prejmerean, D.Prodan, M.Filip, S.Cuc, L.Silaghi-Dumitrescu, C.Gasparik, D.Dudea, *Produse naturale indicate în stomatologia cosmetică*, Cercetarea in Medicina dentara, de la studii fundamentale spre domenii aplicative, Editura Colorama, ISBN 978-606-9389-6-4, 236-246 (**2015**).
7. S.Cuc, C.Saroşi, L.Silaghi-Dumitrescu, D.Prodan, G.Popescu, D.Dudea**, M.Moldovan**, *Efectul unor agenţi de albire experimentali asupra durităţii suprafeţei unor materiale compozite dentare*, Cercetarea in Medicina dentara, de la studii fundamentale spre domenii aplicative, Editura Colorama, ISBN 978-606-9389-6-4, 187-203, (**2015**).
8. C.Sarosi, M.Rosu, S.Boboia, M.Filip, C.Alb, **M.Moldovan,** *Efectul nanoparticulelor asupra cantităţii de monomer rezidual la nanocompozitele cu grafene*, Cercetarea in Medicina dentara, de la studii fundamentale spre domenii aplicative, Editura Colorama, ISBN 978-606-9389-6-4, 88-93 (**2015**).
9. D.Dudea, M.Mesaros**, M.Moldovan***, Efectele secundare ale tratamentelor de albire, Cercetarea in Medicina dentara- de la stud fundamentale spre domenii aplicative*, Cercetarea in Medicina dentara, de la studii fundamentale spre domenii aplicative , Editura Colorama, Cluj-Napoca, ISBN 978-606-93891-6-4, (**2015**).
10. D.Prodan**,** D. Bogdan, **M.Moldovan**, C. Prejmerean, V. Popescu, S. Cuc, O. Pastrav, Cercetarea in medicina dentara, de la studii fundamentale spre domenii applicative, *Materiale de sigilare radiculară pe bază de răşini* , Cercetarea in Medicina dentara, de la studii fundamentale spre domenii aplicative, Editura Colorama, ISBN 978-606-9389-6-4, 236-246 (**2015**).
11. C. Prejmerean, D.Prodan, S. Cuc, **M. Moldovan**, L. Colceriu, I. Hodisan, D. Dudea, V. Prejmerean, D. Bogdan, Cercetarea in medicina dentara, de la studii fundamentale spre domenii applicative, *Giomerii- un nou concept de material pentru stomatologie. Compoziţie, studiul morfologiei suprafeţelor si colorării acestora*, Editura Colorama, ISBN 978-606-9389-6-4, 236-246 (**2015**).
12. Laura Silaghi-Dumitrescu, Doina Prodan, Gabriel Furtos, Alexandrina Roman, Vasile Prejmerean, **Marioara Moldovan**, *Proprietati optice ale materialelor composite*, Cercetarea in Medicina dentara, de la studii fundamentale spre domenii aplicative, Editura Colorama, ISBN 978-606-9389-6-4, 236-246 (**2015**).
13. C. Prejmerean, T. Buruiana, T. Nunes, **M. Moldovan** and L.Colceriu**,** *Biocomposites Based on New Monomer Systems Reinforced with Micro /Nanoparticles and Glass Fibers,* InTech Open Acces Publisher, Composite Materials/Book 2, **2011**, ISBN 978-953-307-353-8

14. **M. Moldovan**, O. Fodor, C. Alb, C. Prejmerean, *"Resin adhesion to hard dental tissues,* Casa Cartii de Stiinta" Publisher, Cluj-Napoca, **2010**, 210 pp
15. O. Horovitz, V.Popescu, **M.Moldovan**, C.Prejmerean, *"Macromolecules and Composite. Experimental Applications"* Mediamira Publisher, Cluj-Napoca, **2005**, 218 pp, ISBN 973-713-053-7

BREVETE si CERERI de BREVETE

1. C. Prejmerean, **M. Moldovan**, T. Buruiana, D. Prodan, L. Silaghi-Dumitrescu, C.L. Sarosi, G. Furtos, S. Cuc, I. Hodisan, A.L. Colceriu-Burtea, D.N. Dadarlat, M. Sreza, C. Agapescu, *Adhesive system for use in restorative dentistry in combination with materials from the classes of giomers, composites and ionomers cements photopolymerizable* , **Patent no. RO 130609/30.07.2019**
2. C. Prejmerean, **M. Moldovan**, D. Prodan, T. Buruiana, L. Silaghi-Dumitrescu, C.L. Sarosi, M. Vlassa, A.L. Colceriu-Burtea, I. Hodisan, S. Boboia, , D.N. Dadarlat, M. Sreza, C. Agapescu, Photopolymerizable giomer composition, **Patent no. RO 132534/30.09.2019**
3. C. Prejmerean, **M. Moldovan**, D. Prodan, L. Silaghi-Dumitrescu, G. Furtos, H. Iovu, C.M. Damian, V. Popescu, V. Pascalau, C.L. Sarosi, S. Boboia, M. Filip, A.L. Colceriu-Burtea, R.L. Silaghi-Dumitrescu, *Organic matrix and indirect restoration composite for use in stomatology*, **Patent no. RO 128800 B1/30.06.2017**
4. Prejmerean C, Musat O, **Moldovan M**, Prodan D, Silaghi-Dumitrescu L, Furtos G, Trif M, Iovu H, Petrea C, Sarosi C, Boboia S, Colceriu-Burtea A L, Silaghi-Dumitrescu R L, Damian C M, Sarosi L C*;"Compozita stomatologica pentru restauraria si profilaxia cariei*"; **Brevet nr. 127617/30.03.2016**
5. **M.Moldovan**,O.Musat,C.Prejmerean,T.Buruiana,C.Sarosi,D.Prodan,S.Boboia,V.Popescu, *„Endodontic materials used for obturation and sealing root canals"- Compozitie Endodontica pentru obturarea si sigilarea canalelor radiculare*, **Brevet nr. 27718/30.12.2015**
6. **M.Moldovan,** O.Musat, C.Prejmerean, A.Colceriu, G.Furtos, B.Petru, T.Buruiana, C.Alb, „*Adhesive system for adhesion of restorative materials to hard dental tissues, including etching agent, an adhesion primer and an adhesive, and procedure for obtaining adhesion primer and adhesive included in this system*", **Brevet nr. 123439/29.06.2012**
7. **M.Moldovan,** O.Musat, M.Trif , C.Prejmerean, T.Buruiana C.Tamas, D.Prodan, L.Silaghi-Dumitrescu, D.Dudea, "*Self-etch adhesives used in dentistry*"**, Brevet nr. 123454/30.05.2012**
8. C.Prejmerean, A.Petrescu, A.Enescu, **M.Moldovan**, G.Furtos, A.Colceriu, C.Tamas, M.Ionescu,M.Trif, D.Prodan, O.Musat, L. Silaghi Dumitrescu, P.Bodogam, *Dental product composite type armed with glass fiber* **Brevet nr. 123334/30.09.2011**
9. C.Prejmerean, T.Buruiana, E.Buruiana, **M.Moldovan**, M.Trif, A.Antoniac, D.Prodan, G.Furtos, L.Silaghi-Dumitrescu, C.Sarosi, O.Musat, *Photopolymerizates composites in dentistry applies,* ***Brevet nr. 125579/30.09.2011***
10. Cristina Prejmerean;**Marioara Moldovan**; Tinca Buruiana, Emil Buruiana, Alina Badanoiu; Georgeta Voicu; Marcela Trif, Laura Silaghi-Dumitrescu, Gabriel Furtos; Aurora Colceriu; Codruta Tamas; Doina Prodan, Olga Musat, *„Compozitie de matrice organica pe baza de acizi polialchenoici modificati si 2-hidroxi-etil-metacrilat, si compozitie de ciment ionomer modificat cu rasini, de uz stomatologic, care o contine,* ***Brevet nr. 123366 B1/ 30.11.2011***
11. **M.Moldovan**, C.Prejmerean, O.Musat, A.Colceriu, P.Bodoga, G.Furtos, L.Vezsenyi, D.Prodan, C.Tamas, S.Muresan, „*Composite material based on nanofiller meant for aesthetic dental restoration and process for preparing the same*", **Brevet nr. 122833/30.03.2010**
12. C.Prejmerean, **M.Moldovan**, A.Colceriu, G.Furtos, L.Vezsenyi, A.I.Farcas, D.Prodan, S.Muresan, P.Bodoga, „*Organic matrix, light-polymerizable paste and multifunction compomer to be used in dentistry,* **Brevet nr. 122762/29. 01.2010**
13. C.Prejmerean, **M.Moldovan**, A.Colceriu, L.Stanulet, C.Marcu, A.Ardelean, E.Hategan, P. Bodoga; O.Musat. *„Dentistry nanofiller composite for dental restorations"***Brevet nr. 122837/30.03.2010**
14. M.Brie, **M. Moldovan**, C.Prejmerean, O.Musat, T.Negreanu Popescu, G. Furtos, *„Radio-opaque composition for dental restoration and process for preparing the same",* **Brevet nr. 122832/30.03.2010**
15. **M.Moldovan**, C.Prejmerean, O.Musat, T.Buruiana, A.Colceriu, P.Bodoga, T.Marcela, G.Furtos, D.Prodan, C.Tamas *"Photopolymerisable biocomponents for tooth restoration",* ***Brevet nr. 122434/30.06.2009***
16. **M.Moldovan**, C.Prejmerean, O.Musat, A.Colceriu, P.Bodoga, G.Furtos, L.Vezsenyi, D.Prodan, C.Tamas, S. Muresan *"Direct restoration composite and process for preparing the same",* **Brevet nr. 122440/30.06.2009**
17. O.Musat, **M.Moldovan**, C.Prejmerean, M.Vezsenyi, M.Brie, *"Composition for dental restoration and process for producing the same",* **Brevet nr. 119112/30.06.2008**
18. M.Brie, M.Vezsenyi, O.Musat, **M.Moldovan**, C.Prejmerean*, Composition for etching tooth enamel and the process for obtaining it,* **Brevet nr. 119277/30.06.2008**
19. C.Prejmerean**, M.Moldovan,** G.Furtos, A.Colceriu, L.Vezsenyi, *"Dental restoration composite material*" **Brevet nr. 122076/30.12.2008**
20. **M. Moldovan**, C.Prejmerean**,** A.Colceriu, P.Bodoga, G.Furtos, L.Vezsenyi, A.I.Farcas, S.Muresan, *"Single paste-type bi-component composition for the prophylaxis of dental decay",* **Brevet nr. 122071/30.12.2008**

21. C.Prejmerean, **M.Moldovan**, A.Colceriu, G.Furtos, L.Vezsenyi, D.Prodan, S.Muresan, P.Bodoga, *„Dental cement composition,* **Brevet nr. 122075/30.12.2008**
22. C.Prejmerean, **M.Moldovan**, T.Buruiana, E.Buruiana, A.Badanoiu, G.Voicu, M.Trif, L.Silaghi-Dumitrescu, G.Furtos, A.Colceriu, C.Tamas, D.Prodan, O.Musat, *„Dental product, ionomer cement type ‚resins modified and the process of obtaining it".* **Cerere de brevet nr. A/00478/23.06.2008**
23. **M.Moldovan**, O.Musat, I.Antoniac, C.Prejmerean, M.Trif, C.Sarosi, S.Boboia, L.SilaghiDumitrescu**,** *„Biomimitic biodegradable composition used for bone implants manufacture",* **Cerere de brevet nr. A/01325/ 10.12.2010**
24. **Moldovan M**, Prejmerean C, Prodan D, Silaghi D L, Sarosi C, Cuc S, DudeaD, *Compozitia gelului de albire pe bază de agenţi natuali***", Cerere de brevet nr. A/00482/8.07.2015**
25. **M. Moldovan**, S. Pruneanu, C. Socaci, M. C. Rosu, C. Sarosi, S. Cuc, D. Prodan, *Material compozit pe baza de oxid de grafena destinat restaurarilor dentare*, **Cerere de brevet nr. A/00902/24.11.2016**
26. **M.Moldovan,** C.Prejmerean, D.Prodan, C.Sarosi, L.Silaghi-Dumitrescu, D.Dudea, C.Gasparik, G.Popescu, C.Agapescu, *Compoziţie destinată albirii şi regenerării smalţului dentar cu proprietăţi specifice utlilzării acesteia în cosmetica dentară*, **Cerere de brevet nr. A00900/ 24.11.2016**
27. **M.Moldovan,** R.Oprean, A.C.Saplonţai–Pop, D.Prodan, L.C.Saroşi, L.Silaghi-Dumitrescu, S.Cuc, C.Agapescu, *Antiagregante plachetare naturiste pe bază de extract de Allium cepa L utilizate in preventia primara cardiovasculara*, **Cerere de brevet nr. A00677/18.09.2017**
28. **M.Moldovan,** A.L.Roman, A.Soanca, C.A.Prejmerean, L.C.Saroşi, L.Silaghi-Dumitrescu, D.Prodan, S.Cuc, *Compozit destinat restaurărilor eroziunilor dentare în timpul tratamentelor chirurgicale de acoperire radiculară,* **Cerere de brevet nr. A00676/18.09.2017**

PREMII

1. Premiu pentru rezultatele obtinute în cercetare în anul **2014** la UBB**, CSI Moldovan Marioara** (Babeş-Bolyai University, Cluj-Napoca, 12.01. **2015**
2. Premiul **BUNEA DANIEL** for **2012 years**, **Moldovan Marioara** (Babeş-Bolyai University,Cluj-Napoca) granted by the Romanian Society of Biomaterials ,
3. Gold Medal to PRO INVENT 2012, "Composition biomimetics biodegradable destined the manufacturing of bone implants " **Request Patent A/01325/ 10.12.2010, Autori: Moldovan Marioara**, Olga Musat, Vasile Iulian Antoniac, Prejmerean Cristina, Marcela Trif, Codruta Sarosi, Stanca Boboia, Laura Silaghi Dumitrescu
International Salon of Inventica PRO INVENT, Xth march, **2012**, Cluj-Napoca
4. ***Silver Medal to EUREKA, 2010,*** **M.Moldovan,** C.Prejmerean, A.Colceriu, P.Bodoga, G.Furtos, L.Vezsenyi, A.Farcas
„Two component composition, mono-paste type, for dental caries prophylaxis" **Patent No.122071/30.12.2008**
The Belgian and International Trade Fair for Technological Innovation, 20th nov., Brussels
5. ***Gold Medal to PRO INVENT 2010,*** **M.Moldovan**, C.Prejmerean, A.Colceriu, P.Bodoga, G.Furtos, L.Vezsenyi, A.Farcas , "Two-component composition, manopasta type, for dental caries prophylaxis" **Patent No.122071/30.12.2008**
International Salon of Inventica PRO INVENT, VIII th march, **2010**, Cluj-Napoca
6. ***Diploma of excellence and Silver Medal toPRO INVENT 2010,*** **M.Moldovan,** C.Prejmerean, A.Colceriu, P.Bodoga, G.Furtos, L.Vezsenyi, A.Farcas, "Two-component composition, manopasta type, for dental caries prophylaxis" **Patent No.122071/30.12.2008.** International Salonu of Inventica PRO INVENT, VIII thmarch, **2010**, Cluj-Napoca
7. Gold Medal to INVENTIKA 2009, C.Prejmerean, A.Petrescu, A.Enescu, **M.Moldovan**, G.Furtos, A.Colceriu, C.Tamas, M.Ionescu, M.Trif, D.Prodan, O.Musat, L.Silaghi-Dumitrescu, P.Bodoga, *Dental product composite type armed with glass fiber and the process forobtaining it,* ***Patent No.123334/20.04.2007***
8. ***Bronz Medal to INVENTIKA 2009,*** **M.Moldovan**, O.Musat, M.Trif, C.Tamas, D.Prodan, L.Silaghi–Dumitrescu, D.Dudea, *"Self-etch adhesives used in dentistry",* **Patent.Nr.123454/30.05.2012**
9. Prize for the best poster, C. Sarosi, **M.Moldovan,** C.Prejmerean, M.Trif, M.Rusu, Gh. Marcu, L.Silaghi-Dumitrescu, C.Nicola, "*SEM and IR analysis of some experimental nanocomposites used in medicine"*
International Conference "Biomaterials & Medical Devices" BiomMedD'2008, 13-16th november, **2008,** Bucharest
10. ***Prize for the best poster,*** A.Almasi, **M.Moldovan**, D.Prodan, C.Tamas, D.Borzea
"*The comparative absorption and solubility of experimental and commercial nano-composites in 4 diverse environments*"
International Congress on Dentistry "NAPOCA BIODENT",8-10th november, **2007**, Cluj-Napoca,ISBN 978-973-8915-45-9
11. Excellence ***Diploma and 1st Prize,*** **M. Moldovan**, C. Prejmerean, A. Colceriu, G. Furtos, L. Vezsenyi
Technology transfer for dental products: SEALING S/L; RESTACRIL AP/P; RESTACRILAL/C, Created in Romania, CONRO, 7-12th octombrie, **2003**, Bucharest
12. 1st Prize, M. Moldovan, C. Prejmerean, A. Colceriu, G. Furtos, L. Vezsenyi, *Technology transfer for dental products: SEALING S/L; RESTACRIL AP/P; RESTACRILAL/C,* National Symposium MATNANTECH, iuly, **2003**, Neptun

13. ***Diploma for the best poster,*** **M. Moldovan,** C.Prejmerean, A.Colceriu, G.Furtos, L.Vezsenyi, D. Prodan, *„Preparation and Characterization of same Nanofiller and Nanocomposite used in Dentistry",* International Conference "Biomaterials&Madical Devices", november, **2004**, Bucharest, ISBN 973-718-083-6

14. ***Prize for the best poster,*** O. Fodor, **M. Moldovan,** A. Pop, I. Tig, "Physical, chemical and structural characteristics of composite resins", International Congress of Dental Materials-NAPOCA BIODENT, november, **2005,** Cluj-Napoca

15. ***ExcellenceDiploma for "Best oral presentation supported by a young research",*** A.Colceriu, **M.Moldovan**, C.Prejmerean, G.Furtos, L.Vezsenyi, A.Farcas, *" Composite with zirconium nanofillers used to restore the morphology of dental crowns",* National Symosium MATNANTECH, 14thFebruary, **2004**, Busteni

16. Second Prize in the "Young Researches in Matnantech Program", A.Colceriu, **M.Moldovan**, C.Prejmerean, G.Furtos, L.Vezsenyi, D.Prodan, *„Composite with zirconium nanofillers used to restore the morphology of dental crowns"* National Symosium MATNANTECH, 15thOctomber, **2004**, Sinaia

17. C.Tamas, **M.Moldovan**, M.Rusu, V.Simon, A.Colceriu, D.Prodan, G.Furtos, C.Alb, *"Nanoparticles for dental composites, preparation and characterization",* Travel Award, 20th European Conference on Biomaterials, September-Octomber, **2006,** Nantes

18. A.Colceriu, **M.Moldovan**, C.Prejmerean, D.Prodan, L.Vezsenyi, G.Furtos, C.Tamas, L.Colceriu, *"The obtaining and characterization of some dental nanocomposites and the relationship between the abrasive wear and their nanostructure"* Travel Award, 19th European Conference on Biomaterials, September, **2005,** Sorrento, Italia

19. C.Alb, S.Alb, **M.Moldovan**, D.Dudea, A.Pop, S.Baciu, *"In vivo and in vitro study of a new dental composite material" (prezentare orala),* Travel Award, 19th European Conference on Biomaterials", September, **2005**, Sorrento, Italia

CONFERINTE INVITATE

1. Moldovan Marioara

6th International Conference "Biomaterials, Tissue Engineering & Medical Devices" **BIOMMEDD'*2014*** on 17th–20stSeptember, **2014**, "Effect of a natural whitening agent application on restorative composites "

2. M. Moldovan

5th International Conference "Biomaterials, Tissue Engineering & Medical Devices" BiomMedD'2012, on 29thAugust – 1stSeptember, **2012**.

3. M. Moldovan, C. Prejmerean, M.Trif, O. Musat, A.Colceriu, G. Furtos, C. Tămaş, D. Prodan, L.Silaghi-Dumitrescu "Cytotoxic effects and chemical properties of the dental adhesives"
Workshop Support, COST D33, Vilnius University, Faculty of Chemistry, march, **2009**
(oral presentation)

4. C. Prejmerean, **M. Moldovan**, M. Trif, L. Silaghi-Dumitrescu, G. Furtos, D. Prodan, C. Sarosi, S.Boboia
Study of dental tissues / resin-based materials interface"
COST D33 Final Workshop Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials, 13th–15th May, **2009,** Cluj – Napoca, Romania, ISBN: 978-606-8008-30-1 ***(oral presentation)***

5. M. Moldovan, C. Prejmerean, M.Trif, O. Musat, A.Colceriu, G. Furtos, C. Tămaş, D.Prodan, L.Silaghi-Dumitrescu
"Possible breakage mechanism to the filler-resin link and composite/dentine interface"
Workshop Support, COST D33, **2008,** Obernei, Franta ***(oral presentation)***

6. M.Moldovan, C.Prejmerean, M.Trif, A.Colceriu, G.Furtos, C.Tamas, D.Prodan
„*Biochemical and microbiological processes occurring at the interfaces between dental materials and oral medium"*
Workshop Support, COST D33, Dipartimento Di Fisica, CASTI, CNR-INFM Regional Laboratory, Università degli Studi dell'Aquila, May, **2007,** Aquila, Italy ***(oral presentation)***

7. M. Moldovan, C. Prejmerean, M.Trif, A.Colceriu, G. Furtos, C. Tamas, D. Prodan *"Establish chemical, biochemical and microbiological processes, who happened at the interfaces: metal; composite; dental hard tissue in oral medium"*
Workshop Support, COST D33, Dunarea de Jos University, September, **2006,** Galati, Romania (***oral presentation)***

8. M. Moldovan, C. Prejmerean, M.Trif, A.Colceriu, G. Furtos, C. Tamas, D. Prodan
"Chemical, biochemical and microbiological processes, at the interface metal/composite materials in artificial saliva"
Workshop Support, COST D33, TNO Science and Industry, December, **2006**, Den Helder, Nederland ***(oral presentation)***

9. M.Moldovan, C.Prejmerean, A.Colceriu, C.Tamas, G.Furtos, D.Prodan, M.Trif, M.Barsan
"Effect of coupling agents on the local mechanical properties of bioactive dental composites"
International Conference on Biomaterials & Medical Devices- BiomMedD'2006, November, **2006**, Iasi, Romania ***(oral presentation)***

PROIECTE DE CERCETARE

Programul/Proiectul	**Funcţia**	**Perioada**
1. ORIZONT 2000, Proiect 246	Executant	1998
„Obtinerea unor materiale compozite polimerice auxiliare pentru protetica si tratamente dentare" ORIZONT 2000, Proiecte 246 şi 977	Executant	1997
2. „*Cercetari privind obtinerea unor materiale biocompatibile si tehnologiile pentru realizarea unor implante de uz uman prin pulverizare cu jet de plasma"* M.I.-D.G.S.I.C.M.; ISIM Timisoara, Contract 17/B18,	Executant	1996
ORIZONT 2000, Proiect 246,	Executant	1996
3. „Studii privind aprofundarea si dezvoltarea domeniului compozitelor polimerice acrilice si polipirolice**"** Ministerul Cercetării şi Tehnologiei, Program "ORIZONT 2000" Contract nr. 284/B/95,	Executant	1995
4.„Cercetari privind realizarea unei proteze vasculare grefata la suprafata cu substante anticoagulante" Ministerul Cercetării şi Tehnologiei,	Executant	1994-1995
5. Ministerul Industriei şi Tehnologiei, Contract nr. 65/B,	Executant	*1994*
6. „Studiul structurii si proprietatilor unor compozite polimerice cu noi compozitii ale fazei organice si ale umpluturii" Ministerul Cercetării şi Tehnologiei, Contract nr. 956/B,	Executant	1993
7. Ministerul Învăţământului şi Ştiinţei, Contract nr. 1004/515,	Executant	1990-1991
8. „Studiul structurii si proprietatilor compozitelor polimerice dimetacrilice cu perspective de aplicare in domeniul medical" Ministerul Industriei Chimice şi Petrochimice, Contract nr. 490,	Executant	1990-1991
9. "Compozite polimerice dimetacrilice de uz stomatologic" Ministerul Industriei Chimice şi Petrochimice, Contract nr. 489,	Executant	1990-1991
10. Program RELANSIN, Subprogram 5, Proiect: 1414, Executant, *„Cercetări privind realizarea de materiale opace la raze X cu aplicabilitate in medicina"*	Executant	1999-2001
11. Program VIASAN, Subprogram 1, Proiect: 58, *„Biomateriale composite bazate pe sisteme monomerice si umpluturi anorganice bioactive cu aplicabilitate in protetica stomatologica "*	Executant	2001-2003
12. Program MATNANTECH, Subprogram 3, **Proiect: 18**, Director Proiect, *„Transfer tehnologic pentru produsele stomatologice SIGILAR S/L; RESTACRIL AP/P; RESTACRIL AL/C"*	**Director Proiect**	2001-2002
13. Program BIOTECH, Subprogaram 1, Proiect: 02-1-PV-429/2002, Executant, *„Biomateriale compozite bazate pe oligomeri superiori de răşini epoxidice modificate cu acizi nesaturaţi şi umpluturi de sticle, cu aplicabilitate în stomatologia restaurativă"*	Executant	2002-2005
14. Program **INVENT**, Subprogram PT2, **Proiect: 49,** Director Proiect, *„Biocompozite bazate pe sisteme monomerice fotopolimerizabile şi umpluturi anorganice cu aplicabilitate în profilaxia stomatologică"*	**Director Proiect**	2002-2004
15. Program MATNANTECH, Subprogram 1, Proiect: 123(301) Titlul temei„Material compozit cu nanoumplutura pe baza de zirconiu utilizat pentru refacerea morfologiei coroanelor dentare"	**Director Proiect**	2003- 2005
16. Program MATNANTECH, Subprogram 1, Proiect: 154(301) Titlul temei„Elaborarea unui ciment compozit stomatologic cu priza dubla utilizat pentru fixarea protezelor unitare si partiale fixe"	Executant	2003- 2005
17. Program VIASAN, Subprogram 1, Proiect: 260 Titlul temei „Elaborarea unor noi biomateriale autohtone bazate pe sisteme de rasini compozite utilizate ca si componente fizionomice pentru protezele dentare fixe metalo-polimerice"	**Director Proiect**	2003- 2005
18. Program BIOTECH, Subprogram 1, Proiect: 3360 Titlul temei„Produs stomatologic multifuncţional de tip compomer pe bază de sticle superficial active şi monomeri dimetacrilici modificaţi"	Executant	2003- 2005
19. Program BIOTECH, Subprogram 1, Proiect: 4555 Titlul temei„Elaborarea unui nou bioprodus de tip compozit armat cu fibra de sticla cu aplicabilitate in protetica stomatologica"	Executant	2004-2006
20.Program MATNANTECH, Subprogram 1, Proiect: 188(401)	**Director**	2004-2006

Titlul temei „Biomateriale Compozite Avansate cu Nanoumpluturii si Polimeri Uretanici utilizate in Biomedicina”	**Proiect**	
21. Program MATNANTECH, Subprogram 9, Proiect: 261(409) Titlul temei „Biocompozite cu nanoumpluturi utilizate in medicina”	Executant	2004-2006
22. Program RELANSIN, Subprogram 5, Proiect: 1917 Titlul temei „Biocompozite fotopolimerizabile cu umplutura de sticla pigmentata utilizate pentru restaurari fizionomice directe”	**Director Proiect**	2004-2006
23. Program MATNANTECH-CEEX, Subprogram S1, Proiect: 30 Titlul temei: “Nanomateriale si adezivi noi cu aplicatii de inalta performanta in medicina”	**Director Proiect**	2005-2008
24. Program RELANSIN-CEEX, Proiect: 2 Titlul temei: “Noi materiale si sisteme pentru protetica si implantologia dentara”	**Director Proiect**	2005-2008
25. Program MATNANTECH-CEEX, Proiect 56 Titlul temei: ”Biocompozite avansate bazate pe noi sisteme de monomeri armati cu nanoparticule si fibre de sticla cu aplicabilitate in stomatologie”	Executant	2006-2008
26. Program CEEX, Proiect 132 Titlul temei: “Noi biocompozite monomere bazate pe acizi polialchenoici modificati cu rasini si sticle superficial active cu aplicatii multiple in medicina”	Executant	2006-2008
27. Program MATNANTECH-CEEX, Proiect 87 Titlul temei: “Nanomateriale UV fotoreticulabile, multifunctionale cu proprietati speciale, pentru aplicatii decorative si dentare”	**Responsabil proiect**	2006-2008
28. Program MENER-CEEX, Proiect 761 Titlul temei: “Cercetari privind obtinerea unor combustibili si materii prime din surse regenerabile”	**Responsabil proiect**	2006-2008
29. Program VIASAN-CEEX, Proiect: 152, „Studiu clinic si experimental al unor factori privind incidenta, etiopatogenia si tratamentul neinvaziv al modificarilor de culoare dentara	**Responsabil proiect**	2006-2008
30. Program PN-II, Proiect 71-057 Titlul temei: “Realizarea de implanturi cu biocompatibilitate avansata prin utilizarea straturilor nanostructurate, ceramice, crescute electrochimic pe titan”	**Responsabil proiect**	2007-2010
31. ANCS, Program PN-II, Proiect 72-190 Titlul temei: “Biomateriale complexe cu grad avansat de specificitate utilizate in tratamentele endodontice”	**Director de proiect**	2008-2011
32. ANCS, Program PN-II, Proiect 72-192 Titlul temei: “Implante resorbabile utilizate in artroscopie realizate din biomateriale biomimetice”	**Responsabil proiect**	2008-2011
33. ANCS, Program PN-II, Proiect 72-158 Titlul temei: “Compozite avansate pentru implantologia dentara”	**Responsabil proiect**	2008-2011
34. ANCS, Program PN-II, Proiect 72-168 Titlul temei: “Biomateriale compozite bazata pe noi sisteme de monomeri fluorurati armati cu nano si microumpluturi bioactive cu proprietati anticariogenice remanente si adeziune superioara la tesuturile dure dentare”	CSI	2008-2011
35. Centrul National de Management Programme **PN II – CO – PC Ctr.165/2012**; Noi generatii de biomateriale pentru stomatologia cosmetica	**Director Proiect**	2012-2016
36. Centrul National de Management Programme **PN II – CO – PC Ctr.189/2012** Noi biomateriale avansate, inteligente de tip giomer cu diverse aplicatii in stomatologie	CSI	2012-2016
37. UEFISCDI-PARTENERIATE IN DOMENIILE PRIORITARE; **Program PN-II, Proiect 230/2014**; Noi materiale compozite pe baza de polimeri biocompatibili si grafene pentru aplicatii dentare	**Responsabil proiect**	2014-2017
38. UEFISCDI-PARTENERIATE IN DOMENIILE PRIORITARE **Program PN-II, Proiect 191/2014;** Antiagregante plachetare naturiste in preventia primara cardio-vasculara	**Responsabil proiect**	2014-2017
39. UEFISCDI-PARTENERIATE IN DOMENIILE PRIORITARE; **Program PN-II, Proiect 127/2014**; Comportamentul celulelor mezenchimale orale in relatie cu un nou material compozit in terapia parodontala regenerativa moderna.	**Responsabil proiect**	2014-2017
40. UEFISCDI-PARTENERIATE IN DOMENIILE PRIORITARE; **Program PN-II, Proiect 115/2014;** Implanturi cranio-faciale personalizate obtinute prin prototipare inovativa 3D din materiale compozite ranforsate cu fibre de sticla	CSI	2014-2017
41. Program PNCDI III, **Proiect PN-III-P2-2.1-BG-2016- 0204, 112BG/ 2016**,	**Responsabil**	**2016-2018**

Optimizarea procesului de obţinere a unor chelaţi ai aminoacizilor în vederea obţinerii unor materiale cu noi aplicaţii,.	**proiect**	
42. Program PNCDI III, **Proiect PN-III-P2-2.1-BG-2016- 0335, 28 BG/2016**, Dezvoltarea unor produse funcționale nutraceutice cu aplicații în alimentația sănătoasă și medicina regenerativă, obținute prin utilizarea unor tehnologii inovatoare și sustenabile,	**Responsabil proiect**	**2016-2018**.
43. **Program PNIII, PN-III-P2-2.1-PED-2016-1907**, Proiect 101 PED/2017, Noi materiale de cimentare cu grafene utilizate în stomatologie**,**	CSI	**2017-2018**
44. Program PNIII, **PN-III-P2-2.1-PED-2016-1415, Proiect 142PED/ 2017**, **T**erapia fotodinamica cu fotosensibilizatori naturali utilizati in controlul biofilmului oral,	**Responsabil proiect**	**2017-2018**
45. **PN-III-P2-2.1-PED-2016-1936, 253PED/2017**, Dezvoltarea unui material compozit inovativ, ranforsat cu fibre de sticla, pentru aplicatii CAD/CAM in medicina dentara **,**	CSI	**2017-2018**
46**. PN-III-P2-2.1-PED2019-2953, 334PED/2020,** The new materials for minimally invasive treatment for the incipient caries and white spots	**Director de proiect**	**2020-2022**
47. **PN-III-P2-2.1-PED-2019-3739, 565PED/2020,** Development of some innovative products from advanced materials (mortars), used in the rehabilitation of heritage buildings	**CSI**	**2020-2022**
48. **PN-IV-P1-PCE-2023-1482, 87PCE/2025,** Materiale noi îmbogățite cu grafen și nitrură de carbon grafitică, utilizate în afecțiunile ţesuturilor bucale prin terapie fotodinamică	**Director de proiect**	**2025-2028**

Marioara Moldovan



Cluj-Napoca
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