

ANEXĂ CITĂRI (2012-2022)

Numele și prenumele cadrului didactic evaluat	Damian Radu Florin
Funcția didactică	conf.

Data: 13.10.2022

Reviste ISI

A. Pawel Kopyt, Radu Damian, Malgorzata Celuch, Romeo Ciobanu; "Dielectric Properties of Chiral Honeycombs - Modelling and Experiment"; Composites Science and Technology; Volume 70, Issue 7, July 2010, Pages 1080-1088; link: <http://www.sciencedirect.com/science/article/pii/S0266353809003091> citat de:

1. Qing Zheng, Hualin Fan, Jun Liu, Yao Ma, Lin Yang; "Hierarchical lattice composites for electromagnetic and mechanical energy absorptions"; Composites Part B: Engineering; Volume 53, October 2013, Pages 152–158; link: <http://www.sciencedirect.com/science/article/pii/S1359836813002059>
2. Sergio Luiz Moni Ribeiro Filho; Thais A. A. Silva; Luciano Machado Gomes Vieira; Túlio Hallak Panzera; Katarzyna Boba; Fabrizio Scarpa; "Geometric Effects of Sustainable Auxetic Structures Integrating the Particle Swarm Optimization and Finite Element Method"; Materials Research; vol.17 no.3 São Carlos May/June 2014 Epub Mar 11, 2014; format Pubmed: Mat. Res. vol.17 no.3; link: http://www.scielo.br/scielo.php?pid=S1516-14392014005000024&script=sci_arttext
3. V. H. Carneiro, J. Meireles, H. Puga; "Auxetic materials — A review"; Materials Science-Poland; October 2013, Volume 31, Issue 4, pp 561-571; link: <http://link.springer.com/article/10.2478/s13536-013-0140-6#>
4. Yanhong Ma, Fabrizio Scarpa, Dayi Zhang, Bin Zhu, Lulu Chen and Jie Hong; "A nonlinear auxetic structural vibration damper with metal rubber particles"; Smart Materials and Structures; Volume 22 Number 8 ; link: <http://iopscience.iop.org/0964-1726/22/8/084012>
5. Q Zhang, X Yang, P Li, G Huang, S Feng and all; "Bioinspired engineering of honeycomb structure—Using nature to inspire human innovation"; Progress in Materials Science; 74 (2015) 332–400; link: <http://www.sciencedirect.com/science/article/pii/S0079642515000377>
6. Veysel Alankaya; "Analytical study on the mechanical performance of composite sandwich shells for dielectric radar domes"; Journal of Sandwich Structures and Materials; doi:10.1177/1099636215613296; link: <http://jss.sagepub.com/content/early/2015/10/26/1099636215613296.abstract>
7. João Valente , Eric Plum , Ian J. Youngs , and Nikolay I. Zheludev; "Nano- and Micro-Auxetic Plasmonic Materials"; Advanced Materials; Adv. Mater. 2016, 28, 5176–5180; format Pubmed: Adv. Mater. 2016, 28, 5176–5180; link: <http://onlinelibrary.wiley.com/doi/10.1002/adma.201600088/full>
8. Feng, Jiang; Zhang, Yichen; Wang, Peng; et al.; "Oblique incidence performance of radar absorbing honeycombs"; Composites Part B-Engineering; Volume: 99 Pages: 465-471 Published: AUG 15 2016; link: <https://www.sciencedirect.com/science/article/pii/S1359836816309829>
9. Qiu, Kepeng; Feng, Shuqi; Wu, Chen; et al.; "Calculation of Effective Permittivity and Optimization of Absorption Property of Honeycomb Cores with Absorbing Coatings"; Materials Science-Medziagotyra; Volume: 22 Issue: 3 Pages: 317-322 Published: 2016; link: <http://matsc.ktu.lt/index.php/MatSc/article/view/8456/8037>
10. Wang, P., Zhang, Y., Chen, H., Zhou, Y., Jin, F., & Fan, H.; "Broadband radar absorption and mechanical behaviors of bendable over-expanded honeycomb panels"; Composites Science and Technology; 162 (2018): 33-48; link: <https://www.sciencedirect.com/science/article/pii/S0266353817323084>
11. Barba, I., Grande, A., Molina-Cuberos, G.J., García-Collado, Á.J., Represa, J. and Cabeceira, A.C.; "A Full-Dielectric Chiral Material Based on a Honeycomb Structure"; International Journal of Antennas and Propagation; ; link: <https://www.hindawi.com/journals/ijap/2018/4198243/abs/>
12. Ciobanu, R., Schreiner, C. and Damian, R.; "High frequency electromagnetic energy phenomena in chiral dielectric structures with distributed and localized conductive insertions"; Composites Part B: Engineering; 160, pp.241-248; link: <https://www.sciencedirect.com/science/article/pii/S1359836818315105>

13. Zhao, Y., Ren, F., He, L., Zhang, J., Yuan, Y. and Xi, X.; "Design of graded honeycomb radar absorbing structure with wide-band and wide-angle properties"; International Journal of Microwave and Wireless Technologies; 11(2), pp.143-150.; link: <https://www.cambridge.org/core/journals/international-journal-of-microwave-and-wireless-technologies/article/design-of-graded-honeycomb-radar-absorbing-structure-with-wideband-and-wideangle-properties/850C472C9ADE830C140B52934AB542D7>
14. Shukla, S., Behera, B. K.; "Auxetic fibrous structures and their composites: A review"; Composite Structures; Volume 290; link: doi:10.1016/j.compstruct.2022.115530

B. R. Ciobanu, R.F. Damian, I. Casian Botez; "Electromagnetic Characterization of chiral auxetic metamaterials for EMC applications"; Computer Standards & Interfaces; Volume 32, Issue 3, March 2010, Pages 101-109; link: <http://www.sciencedirect.com/science/article/pii/S0920548909000968> citat de:

1. Joseph N Grima, Roberto Caruana-Gauci, Mirosław R Dudek, Krzysztof W Wojciechowski and Ruben Gatt; "Smart metamaterials with tunable auxetic and other properties"; Smart Materials and Structures; Volume 22 Number 8 2013; link: <http://iopscience.iop.org/0964-1726/22/8/084012>
2. João Valente , Eric Plum , Ian J. Youngs , and Nikolay I. Zheludev; "Nano- and Micro-Auxetic Plasmonic Materials"; Advanced Materials; Adv. Mater. 2016, 28, 5176–5180; format Pubmed: Adv. Mater. 2016, 28, 5176–5180; link: <http://onlinelibrary.wiley.com/doi/10.1002/adma.201600088/full>
3. Yang Yang , Jianqi Zhang , Wenjun Zou , Sai Wu , Fan Wu , Aming Xie , Zhixiang Wei; "Self-Assembled 3D Helical Hollow Superstructures with Enhanced Microwave Absorption Properties"; MACROMOLECULAR RAPID COMMUNICATIONS; Volume: 39, Issue: 3, ; link: <https://onlinelibrary.wiley.com/doi/abs/10.1002/marc.201700591>
4. Zhao, Y., Ren, F., He, L., Zhang, J., Yuan, Y. and Xi, X.; "Design of graded honeycomb radar absorbing structure with wide-band and wide-angle properties"; International Journal of Microwave and Wireless Technologies; 11(2), pp.143-150.; link: <https://www.cambridge.org/core/journals/international-journal-of-microwave-and-wireless-technologies/article/design-of-graded-honeycomb-radar-absorbing-structure-with-wideband-and-wideangle-properties/850C472C9ADE830C140B52934AB542D7>
5. Zheng, Yongfeng; Wang, Yingjun; Lu, Xiang; et al.; "Evolutionary topology optimization for mechanical metamaterials with auxetic property"; INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES; Volume: 179, Article Number: 105638
6. Ivan, M.V., Zala, A., Agop, A., (...), Teodor Iancu, D., Crişan-Dabija, R.; "Several aspects about fractalitaty role in the dynamics of complex systems"; UPB Scientific Bulletin, Series A: Applied Mathematics and Physics; 79 (3), 2017, pp. 235-246

C. Radu-Florin Damian, Romeo-Cristian Ciobanu, Irinel Casian Botez; "Efficiency And Convergence Of The Wave Concept Iterative Procedure"; 23rd European Conference on Modelling and Simulation ECMS 2009, June 9th - 12th, 2009, Madrid, Spain; paper 128; link: http://www.scs-europe.net/conf/ecms2009/ecms2009%20CD/ecms2009%20accepted%20papers/eee_0128_09373756.pdf citat de:

1. Ziar, T., Zaabat, M. and Baudrand, H.; "The study of packaging miniaturization effect on the characteristics of an active planar circuit by using the iterative method"; Int. J. Numer. Model.; link: <http://onlinelibrary.wiley.com/doi/10.1002/jnm.1858/abstract>
2. Souad Berhab, Mehadj Abri, Ramzi Gharbi; "Rigorous iterative full-wave method for the analysis of multi-band arbitrary U-shaped antennas"; Microwave and Optical Technology Letters; 58:2358–2364, 2016; format Pubmed: Microw. Opt. Technol. Lett.; link: <http://onlinelibrary.wiley.com/doi/10.1002/mop.30042/full>

D. S.I. Damian, D. Mihai, R.F. Damian; "Interpretarea evoluţiei datelor statistice cu impact social"; Revista Medico-Chirurgicală a Societăţii de Medici şi Naturalişti din Iaşi; 112 (3), 2008, pag. 412-416; format Pubmed: Rev Med Chir Soc Med Nat Iasi. 2008 Jul-Sep;112(3):764-8.; link BDI: <http://www.ncbi.nlm.nih.gov/pubmed/20201266>; link: <http://www.revmedchir.ro/index.php?loc=editions&ed=3> citat de:

1. Frunza A., Sandu A.; "Formalization of Informed Consent. From Ethical to Administrative Use"; POSTMODERN OPENINGS; Volume: 8 , Issue: 3, Pages: 69-95; link: <http://lumenpublishing.com/journals/index.php/po/article/view/182/pdf>
2. Grigorean, Valentin Titus; Sinescu, Crina Julieta; Stoian, Alexandru Rares; et al.; "Hospital Organizational Ethics"; REVISTA DE CERCETARE SI INTERVENTIE SOCIALA; Volume: 59 Pages: 287-297 Published: DEC 2017; link: <https://www.rcis.ro/en/section1/147-volumul-592017decembrie/2408-hospital-organizational-ethics.html>

E. BG Ioan, V Jitaru, R Damian, SI Damian; "Study on the relationship between the concentration of ethanol in the blood, urine and the vitreous humour"; ROMANIAN JOURNAL OF LEGAL MEDICINE; 23 (3), 211-216; link: <http://legmed.ro/system/revista/35/211-216.pdf>; <http://www.rjlm.ro/index.php/arhiv/438> citat de:

1. Hanganu, B ; Velnic, AA ; Manoilescu, IS ; Ioan, BG; "Challenges to Forensic Medicine in the Postmodern Era- the Impact of the New Technologies"; POSTMODERN OPENINGS; Volume: 8 , Issue: 3, Pages: 12-23; link: <http://lumenpublishing.com/journals/index.php/po/article/view/177/pdf>
2. Ameline, A., Raul, J.S. and Kintz, P.; "La thanatopraxie empêche-t-elle de réaliser une expertise toxicologique de référence?"; Toxicologie Analytique et Clinique; 31(1), pp.3-6.; link: <https://www.sciencedirect.com/science/article/pii/S2352007819300083?via%3Dihub>
3. Savini, Fabio; Tartaglia, Angela; Coccia, Ludovica; et al.; "Ethanol Determination in Post-Mortem Samples: Correlation between Blood and Vitreous Humor Concentration"; MOLECULES ; Volume: 25 Issue: 12 Article Number: 2724 Published: JUN 2020
4. Damian, Simona Irina; Diac, Madalina; Iov, Tatiana; et al.; "Particularities of Medical Education in the Field of Forensic Toxicology. Studying Dangerous Chemical Agents in Forensic Research"; REVISTA ROMANEASCA PENTRU EDUCATIE MULTIDIMENSIONALA; Volume: 11 Issue: 4 Supplement: 1 Pages: 337-344 Published: DEC 2019
5. Buhas, Camelia Liana; Buhas, Bogdan Adrian; Daina, Lucia Georgeta; et al.; "Multiple Fatal Intoxications Caused by Improper Consumption of an Alcoholic Para-Pharmaceutical Product"; REVISTA DE CHIMIE ; Volume: 70 Issue: 7 Pages: 2471-2476 Published: JUL 2019
6. Marian, Paula; Pantis, Carmen; Somlea, Mihaela Cristina; et al.; "Epidemiology of drowning in children in a Western region of Romania"; ROMANIAN JOURNAL OF LEGAL MEDICINE ; Volume: 27 Issue: 2 Pages: 205-212 Published: JUN 2019
7. Crisan, Corina; Judea-Pusta, Claudia Teodora; Mihalache, Gabriel; et al.; "Difficulties and limits in forensic expertise of a fatal aircraft accident"; ROMANIAN JOURNAL OF LEGAL MEDICINE ; Volume: 27 Issue: 1 Pages: 33-37 Published: MAR 2019
8. Al-Asmari, A. I., Altowairgi, M. M., Al-Amoudi, D. H.; "Effects of postmortem interval, putrefaction, diabetes, and location of death on the analysis of ethyl glucuronide and ethyl sulfate as ethanol biomarkers of antemortem alcohol consumption"; Forensic Science International; Volume 335; link: doi:10.1016/j.forsciint.2022.111280

G. Serbezeanu, Diana; Carja, Ionela-Daniela; Nicolescu, Alina; Aflori, Magdalena; Vlad-Bubulac, Tachita; Butnaru, Maria; Damian, Radu-Florin; Dunca, Simona; Shova, Sergiu; "Synthesis, crystal structure and biological activity of new phosphoester-p-substituted-methylparabens"; Journal of Molecular Structure; Volume 1196, 15 November 2019, Pages 637-646; link: <https://www.sciencedirect.com/science/article/abs/pii/S002228601930835X> citat de:

1. Hadji, Djebar; "Phosphates branching effect on the structure, linear and NLO properties of linear phosphazenes"; MATERIALS CHEMISTRY AND PHYSICS ; Volume: 262 Article Number: 124280, 2021
2. Senkuytu, Elif; Davarci, Derya; Olcer, Zehra; et al.; "DNA interaction analysis with automated biosensor of paraben derivative s-triazines"; JOURNAL OF MOLECULAR STRUCTURE ; Volume: 1222 Article Number: 128925, 2020

H. Constantin CP, Aflori M, Damian RF, Rusu RD; "Biocompatibility of Polyimides: A Mini-Review"; Materials; 2019; 12(19):3166; link: <https://www.mdpi.com/1996-1944/12/19/3166> citat de:

1. Panin, S. V.; Luo, J.; Alexenko, V. O.; et al.; "The effect of annealing of milled carbon fibers on the mechanical and tribological properties of solid-lubricant thermoplastic polyimide-based composites"; POLYMER ENGINEERING AND SCIENCE ; Volume: 60 Issue: 11 Pages: 2735-2748 Published: NOV 2020
2. Chiriac, Adriana-Petronela; Butnaru, Irina; Damaceanu, Mariana-Dana; "Electrochemically active polyimides containing hydroxyl-functionalized triphenylmethane as molecular sensors for fluoride anion detection"; ELECTROCHIMICA ACTA ; Volume: 353 Article Number: 136602 Published: SEP 1 2020
3. Das, Soumyadeep; Mitra, Debasis; Mandal, Bappaditya; et al.; "Implantable antenna gain enhancement using liquid metal-based reflector"; APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING; Volume: 126 Issue: 9 Article Number: 738 Published: AUG 27 2020
4. Leones, Adrian; Lieblich, Marcela; Benavente, Rosario; et al.; "Potential Applications of Magnesium-Based Polymeric Nanocomposites Obtained by Electrospinning Technique"; NANOMATERIALS ; Volume: 10 Issue: 8 Article Number: 1524 Published: AUG 2020
5. Ramadan, Qasem; Zourob, Mohammed; "Organ-on-a-chip engineering: Toward bridging the gap between lab and industry"; BIOMICROFLUIDICS ; Volume: 14 Issue: 4 Article Number: 041501 Published: JUL 2020
6. Rusu, Radu-Dan; Constantin, Catalin-Paul; Drobeta, Mioara; et al.; "Polyimide films tailored by UV irradiation: Surface evaluation and structure-properties relationship"; POLYMER DEGRADATION AND STABILITY ; Volume: 177 Article Number: 109182 Published: JUL 2020
7. Xu, Can; Gao, Zhiming; Guo, Yun; et al.; "Study on in-situ growth of polyhedral oligomeric silsesquioxane (POSS) layer on kapton surface and the properties of SiO₂/POSS coatings"; COLLOIDS AND SURFACES A-

8. Xing, Haiyuan; Li, Ruiyan; Wei, Yongjie; et al.; "Improved Osteogenesis of Selective-Laser-Melted Titanium Alloy by Coating Strontium-Doped Phosphate With High-Efficiency Air-Plasma Treatment"; *FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY*; Volume: 8 Article Number: 367 Published: MAY 12 2020
9. Asadullah, Syed; Mei, Shiqi; Wang, Deqiang; et al.; "Sulfonated porous surface of tantalum pentoxide/polyimide composite with micro-submicro structures displaying antibacterial performances and stimulating cell responses"; *MATERIALS & DESIGN* ; Volume: 190 Article Number: 108510 Published: MAY 2020
10. Al-Qatatsheh, Ahmed; Morsi, Yosry; Zavabeti, Ali; et al.; "Blood Pressure Sensors: Materials, Fabrication Methods, Performance Evaluations and Future Perspectives"; *SENSORS* ; Volume: 20 Issue: 16 Article Number: 4484 Published: AUG 2020
11. Huang, Chien-Ho; Liu, Ying-Ling; "Preparation of Meldrum's acid-functionalized polyimides exhibiting organo-soluble, reactive, self-crosslinkable, and colorless features"; *JOURNAL OF POLYMER SCIENCE*; Volume: 59 Issue: 10 Pages: 893-903; link: doi:10.1002/pol.20210112
12. Luo, Yiqian; Xue, Fei; Liu, Kai; et al.; "Physical and biological engineering of polymer scaffolds to potentiate repair of spinal cord injury"; *MATERIALS & DESIGN* ; Volume: 201 Article Number: 109484; link: doi:10.1016/j.matdes.2021.109484
13. Barzic, Andreea Irina; Albu, Raluca Marinica; Stoica, Iuliana; "Surface alteration implications on potential use of semi-alicyclic polyimide as biomedical materials"; *APPLIED SURFACE SCIENCE* ; Volume: 540 Article Number: 148377 Part: 1; link: doi:10.1016/j.apsusc.2020.148377
14. Wang, Cong; Wei, Yu-Chen; Sung, Ho-Kun; et al.; "Wafer-Scale Fabrication and Assembly Method of Multichannel Microelectrode Arrays for ECoG Application"; *ELECTRONICS* ; Volume: 10 Issue: 3 Article Number: 316; link: doi:10.3390/electronics10030316
15. Chiriac, Adriana-Petronela; Damaceanu, Mariana-Dana; "A novel approach towards crown-ether modified polyimides with affinity for alkali metal ions recognition"; *JOURNAL OF MOLECULAR LIQUIDS* ; Volume: 322 Article Number: 114929; link: doi:10.1016/j.molliq.2020.114929
16. Kerkel, F., Markiewicz, M., Stolte, S., Müller, E., Kunz, W.; "The green platform molecule gamma-valerolactone - ecotoxicity, biodegradability, solvent properties, and potential applications"; *Green Chemistry*; 23(8), pp. 2962-2976; link: doi:10.1039/d0gc04353b
17. García-Estrada, P., García-Bon, M. A., López-Naranjo, E. J., Basaldúa-Pérez, D. N., Santos, A., Navarro-Partida, J.; "Polymeric implants for the treatment of intraocular eye diseases: Trends in biodegradable and non-biodegradable materials"; *Pharmaceutics*; 13(5); link: doi:10.3390/pharmaceutics13050701
18. Wang, X., Gao, J., Zhang, J.; "Biocompatibility of polyimide fibers with human gastric cells in vitro"; *Fibers and Polymers*; 22(9), 2380-2387; link: doi:10.1007/s12221-021-0199-3
19. Constantin, C. -, Asandulesa, M., Varganici, C., Melinte, V., Bruma, M., Jankowski, A., . . . Damaceanu, M. -; "Exploring the potential of thin films made from poly(imide-amide-sulfone)s for engineering applications"; *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*; 270; link: doi:10.1016/j.mseb.2021.115217
20. Maenhout, G., Markovic, T., Nauwelaers, B.; "Flexible, segmented tubular design with embedded complementary split-ring resonators for tissue identification"; *IEEE Sensors Journal*; 21(14), 16024-16032; link: doi:10.1109/JSEN.2021.3075570
21. Sellers, K. K., Chung, J. E., Zhou, J., Triplett, M. G., Dawes, H. E., Haque, R., Chang, E. F.; "Thin-film microfabrication and intraoperative testing of μ CoG and iEEG depth arrays for sense and stimulation"; *Journal of Neural Engineering*; 18(4); link: doi:10.1088/1741-2552/ac1984
22. Panin, S. V., Luo, J., Buslovich, D. G., Alexenko, V. O., Kornienko, L. A., Bochkareva, S. A., & Byakov, A. V.; "Experimental—fem study on effect of tribological load conditions on wear resistance of three-component high-strength solid-lubricant pi-based composites"; *Polymers*; 13(16); link: doi:10.3390/polym13162837
23. Yousuff, C. M., Tirth, V., Irshad, M. Z. A. B., Irshad, K., Algahtani, A., & Islam, S.; "Numerical study of joule heating effects on microfluidics device reliability in electrode based devices"; *Materials*; 14(19); link: doi:10.3390/ma14195819
24. Kashina, A. V., Meleshko, T. K., Bogorad, N. N., Lavrentyev, V. K., & Yakimansky, A. V.; "Molecular brushes with a polyimide backbone and poly(ϵ -caprolactone) side chains by the combination of atp, rop, and cuaac"; *Polymers*; 13(19); link: doi:10.3390/polym13193312
25. Panin, S. V., Luo, J., Buslovich, D. G., Kornienko, L. A., Aleksenko, V. O., Bochkareva, S. A.; "Development of an optimal composition of three-component high-strength wear-resistant composites based on polyimide"; *Journal of Applied Mechanics and Technical Physics*; 62(6), 1028-1036; link: doi:10.1134/S0021894421060183
26. Kim, K. -, Lee, K. W., Kang, S. -, Nam, S. -, Kim, J., Kim, Y. -, Park, S. K.; "Stress-released amorphous Oxide/Carbon nanotube CMOS amplifier circuits for skin-compatible electronics"; *ACS Applied Electronic Materials*; 3(11), 4950-4958; link: doi:10.1021/acsaelm.1c00751
27. Gu, C., Jiang, J., Tao, T. H., Wei, X., Sun, L.; "Long-term flexible penetrating neural interfaces: Materials, structures, and implantation"; *Science China Information Sciences*; 64(12); link: doi:10.1007/s11432-021-3321-7

28. Urbano-Gámez, J. D., Valdés-Sánchez, L., Aracil, C., de la Cerda, B., Perdignes, F., Reyes, Á. P., . . . Quero, J. M.; "Biocompatibility study of a commercial printed circuit board for biomedical applications: Lab-on-PCB for organotypic retina cultures"; *Micromachines*; 12(12); link: doi:10.3390/mi12121469
29. Lim, J., Goh, B., Qu, W., Kim, Y., Choi, J., & Hong, S.; "Adhesive-free bonding of PI/PDMS interface by site-selective photothermal reactions"; *Applied Surface Science*; 571; link: doi:10.1016/j.apsusc.2021.151123
30. Sharafkhani, N., Kouzani, A. Z., Adams, S. D., Long, J. M., Lissorgues, G., Rousseau, L., Orwa, J. O.; "Neural tissue-microelectrode interaction: Brain micromotion, electrical impedance, and flexible microelectrode insertion"; *Journal of Neuroscience Methods*; 365; link: doi:10.1016/j.jneumeth.2021.109388
31. Nica, S. L., Hulubei, C., Popovici, D., Dobromir, M.; "Metallized polyimide films for biomedical applications: X-ray photoelectron spectroscopy, surface tension, and blood compatibility studies"; *Polymer Engineering and Science*; 62(3), 648-663; link: doi:10.1002/pen.25872
32. Balakrishnan, G., Song, J., Mou, C., Bettinger, C. J.; "Recent progress in materials chemistry to advance flexible bioelectronics in medicine"; *Advanced Materials*; 34(10); link: doi:10.1002/adma.202106787
33. Nguyen, D., Lawrence, M. M., Berg, H., Lyons, M. A., Shreim, S., Keating, M. T., . . . Botvinick, E. L.; "Transcutaneous flexible sensor for in vivo photonic detection of pH and lactate"; *ACS Sensors*; 7(2), 441-452; link: doi:10.1021/acssensors.1c01720
34. Lee, D. U., Kim, D. W., Lee, S. Y., Choi, D. Y., Choi, S. Y., Moon, K. -, . . . Moon, M. J.; "Amino acid-mediated negatively charged surface improve antifouling and tribological characteristics for medical applications"; *Colloids and Surfaces B: Biointerfaces*; 211; link: doi:10.1016/j.colsurfb.2021.112314
35. Panin, S. V., Alexenko, V. O., Buslovich, D. G.; "High performance polymer composites: A role of transfer films in ensuring tribological Properties—A review"; *Polymers*; 14(5); link: doi:10.3390/polym14050975
36. Panin, S. V., Luo, J., Buslovich, D. G., Alexenko, V. O., Berto, F., Kornienko, L. A.; "Effect of transfer film on tribological properties of anti-friction PEI- and PI-based composites at elevated temperatures"; *Polymers*; 14(6); link: doi:10.3390/polym14061215
37. Debbarma, S., & Bhadra, S.; "A flexible wearable electrooculogram system with motion artifacts sensing and reduction"; *IEEE Transactions on Biomedical Circuits and Systems*; 16(2), 324-335; link: doi:10.1109/TBCAS.2022.3168236
38. Dahiya, A. S., Zumeit, A., Christou, A., Dahiya, R.; "High-performance n-channel printed transistors on biodegradable substrate for transient electronics"; *Advanced Electronic Materials*; ; link: doi:10.1002/aelm.202200098
39. Kullmann A, Kridner D, Mertens S, Christianson M, Rosa D, Diaz-Botia CA.; "First Food and Drug Administration Cleared Thin-Film Electrode for Intracranial Stimulation, Recording, and Monitoring of Brain Activity-Part 1: Biocompatibility Testing"; *Frontiers in Neuroscience*; Volume16, Article Number 876877; link: doi: 10.3389/fnins.2022.876877
40. Hsieh, FC ; Huang, CY ; Lu, YP ; "Wettability and Surface Roughness of Parylene C on Three-Dimensional-Printed Photopolymers"; *MATERIALS*; Volume15, Issue12, Article Number4159; link: doi: 10.3390/ma15124159
41. Yang, X ; Ma, W ; Lin, H ; Ao, SX ; Liu, HR ; Zhang, H ; Tang, WQ ; Xiao, HY ; Wang, FJ ; Zhu, JY ; ; "Molecular mechanisms of the antibacterial activity of polyimide fibers in a skin-wound model with Gram-positive and Gram-negative bacterial infection in vivo"; *NANOSCALE ADVANCES*; Volume4, Issue14, Page3043-3053; link: doi: 10.1039/d2na00221c
42. Kaewmanee, R ; Wang, F ; Mei, SQ ; Pan, YK ; Yu, BQ ; Wu, ZY ; Meesane, J ; Wei, J ; "Molybdenum disulfide nanosheet/polyimide composites with improved tribological performances, surface properties, antibacterial effects and osteogenesis for facilitating osseointegration"; *JOURNAL OF MATERIALS CHEMISTRY B*; Volume10, Issue26, Page5058-5070; link: doi: 10.1039/d2tb00776b
43. Park, SJ ; Tucker, R ; Pickwell-MacPherson, E ; Cunningham, JE ; "Design of a Split Ring Resonator Integrated with On-Chip Terahertz Waveguides for Colon Cancer Detection"; *ADVANCED THEORY AND SIMULATIONS*; Volume5, Issue9, Article Number2200313; link: doi: 10.1002/adts.202200313
44. Panin, SV , ; Bogdanov, AA , ; Eremin, AV , ; Buslovich, DG ; Alexenko, VO ; "Estimating Low- and High-Cyclic Fatigue of Polyimide-CF-PTFE Composite through Variation of Mechanical Hysteresis Loops"; *MATERIALS*; Volume15, Issue13, Article Number4656; link: doi: 10.3390/ma15134656
45. McGlynn, E ; Walton, F ; Das, R ; Heidari, H ; "Neural microprobe modelling and microfabrication for improved implantation and mechanical failure mitigation"; *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*; Volume380, Issue2228, Article Number20210007; link: doi: 10.1098/rsta.2021.0007
46. Daus, A , ; Jaikissoon, M ; Khan, AI ; Kumar, A ; Grady, RW ; Saraswat, KC , ; Pop, E , ; "Fast-Response Flexible Temperature Sensors with Atomically Thin Molybdenum Disulfide"; *NANO LETTERS*; Volume22, Issue15, Page6135-6140; link: doi: 10.1021/acs.nanolett.2c01344
47. Constantin, CP ; Gradinaru, LM ; Plopa, O ; Rusu, RD ; "Surface modification of polyimide films towards very low contact angles"; *POLYMER DEGRADATION AND STABILITY*; Volume202, Article Number110036; link: doi: 10.1016/j.polymdegradstab.2022.110036
48. Hamciuc, C ; Vlad-Bubulac, T ; Bercea, M ; Suflet, DM ; Doroftei, F ; Rimbu, CM ; Enache, AA ; Kalvachev, Y ; Todorova, T ; Butnaru, M ; ; "Electrospun Copoly(ether imide) Nanofibers Doped with

- Silver- Loaded Zeolite as Materials for Biomedical Applications"; ACS APPLIED POLYMER MATERIALS; Volume4, Issue8, Page6080-6091; link: doi: 10.1021/acsapm.2c00892
49. Kamalov, A ; Smirnova, N ; Kolbe, K ; Borisova, M ; Bystrov, S ; Didenko, A ; Vlasova, E ; Yudin, V ; "Activation of R-BAPB polyimide with cold plasma dielectric barrier discharge for improvement of cell-material interaction"; JOURNAL OF APPLIED POLYMER SCIENCE; Volume139, Issue42, Article Number e53024; link: doi: 10.1002/app.53024
 50. Lee, K ; Lee, D ; Baek, S ; Kim, J ; Park, J ; Lee, SJ ; Park, S ; Kim, J ; Lee, JL ; Chung, WK ; "Radiation Damage of Polydimethylsiloxane and Polyimide by X-ray Free-Electron Laser"; APPLIED SCIENCES-BASEL; Volume12, Issue17, Article Number8431; link: doi: 10.3390/app12178431
 51. Kamalov, A ; Shishov, M ; Smirnova, N ; Kodolova-Chukhontseva, V ; Dobrovol'skaya, I ; Kolbe, K ; Didenko, A ; Ivan'kova, E ; Yudin, V ; Morganti, P ; "Influence of Electric Field on Proliferation Activity of Human Dermal Fibroblasts"; JOURNAL OF FUNCTIONAL BIOMATERIALS; Volume13, Issue3, Article Number89; link: doi: 10.3390/jfb13030089
 52. Panin, SV ; Luo, J ; Buslovich, DG ; Alexenko, VO ; Kornienko, LA ; "Effect of the Matrix Structure on the Tribological Properties of Solid-Lubricant Composites Based on High-Temperature Polyimide Thermoplastics"; RUSSIAN PHYSICS JOURNAL; Volume65, Issue3, Page526-534; link: doi: 10.1007/s11182-022-02664-8

I. Romeo Ciobanu, Cristina Schreiner, Radu Damian; "High frequency electromagnetic energy phenomena in chiral dielectric structures with distributed and localized conductive insertions"; Composites Part B: Engineering; Volume 160, 1 March 2019, Pages 241-248; link: <https://www.sciencedirect.com/science/article/pii/S1359836818315105> citat de:

1. Huang, Haoming; Wang, Wen; Cao, Taishan; et al.; "Broadband radar absorbing performance of corrugated structure"; COMPOSITE STRUCTURES ; Volume: 253 Article Number: 112809 Published: DEC 1 2020
2. Huang, Haoming; Wang, Wen; Hua, Manyu; et al.; "Broadband radar absorbing characteristic based on periodic hollow truncated cone structure"; PHYSICA B-CONDENSED MATTER ; Volume: 595 Article Number: 412368 Published: OCT 15 2020
3. Wu, Wenwang; Hu, Wenxia; Qian, Guian; et al.; "Mechanical design and multifunctional applications of chiral mechanical metamaterials: A review"; MATERIALS & DESIGN ; Volume: 180 Article Number: 107950 Published: OCT 15 2019

Reviste BDI

A. R. Ciobanu, R.F. Damian, I. Casian Botez; "Electromagnetic Characterization of chiral auxetic metamaterials for EMC applications"; Computer Standards & Interfaces; Volume 32, Issue 3, March 2010, Pages 101-109; link: <http://www.sciencedirect.com/science/article/pii/S0920548909000968> citat de:

1. Tesloianu, D., Ivan, M.V., Adrian, C., (...), Agop, M., Crisan-Dabija, R.; "Non-linear effects at differentiable-non-differentiable scale transition in complex fluids (II)"; Journal of Computational and Theoretical Nanoscience; 14 (7), pp. 3296-3311
2. Bejinariu, C., Cazac, A.M., Darabont, D.C., (...), Agop, M., Constantinescu, S.; "Experimental and theoretical aspects of nanostructuring by multiaxial forging"; Journal of Computational and Theoretical Nanoscience; 14 (4), pp. 1744-1750
3. Tesloianu, D., Ghizdovăţ, V., Butuc, I., (...), Agop, M., ŞtefĂnescu, C.; "Structure coherence at small and large scales"; Journal of Computational and Theoretical Nanoscience; 12 (12), pp. 5587-5592
4. Doroftei, B., Duceac, L.D., Iacob, D.D., (...), Agop, M., Aursulesei, V.; "The harmonic oscillator problem in the scale relativity theory. Its implications in the morphogenesis of structures at various scale resolutions"; Journal of Computational and Theoretical Nanoscience; 12 (12), pp. 5870-5881
5. Ştefan, G., Duceac, L.D., Gaţu, I., (...), Manea, L.R., Rotaru, M.; "Structures morphogenesis in complex systems at nanoscale"; Journal of Computational and Theoretical Nanoscience; 12 (12), pp. 5358-5362
6. Zhou, W., Wang, J., Luo, F., (...), Huang, Z., Qing, Y.; "Problems faced with high-temperature microwave absorbing materials"; Materials China; 32 (8), pp. 463-472
7. Timofte, D., Ochiuz, L., Vasincu, D., Crumpei, G., Gavriluţ, A., Agom, M.; "Chaos and self-structuring behaviors in the dynamics of biological structures: Implications of drug release from the polymeric matrix process"; Advances in Nonlinear Dynamics Research; pages 165-200, 978-153610740-1; link: https://www.novapublishers.com/catalog/product_info.php?products_id=60710
8. Tesloianu, D., Scurtu, D., Jimborean, G., Ianosi, S.E., Postolache, P., Nica, P.E., Ghizdovat, V., Iancu, L.S., Agop, M. and Constantinescu, S.; "Complex fluids flow at meso and nano scales and its implications in biological structures behaviors"; Journal of Computational and Theoretical Nanoscience; 14(4), pp.1690-1699; link: <https://www.ingentaconnect.com/content/asp/jctn/2017/00000014/00000004/art00003>

B. Constantin CP, Aflori M, Damian RF, Rusu RD; "Biocompatibility of Polyimides: A Mini-Review"; *Materials*; 2019; 12(19):3166; link: <https://www.mdpi.com/1996-1944/12/19/3166> citat de:

1. Mazzotta, A., Carlotti, M., Mattoli, V.; "Conformable on-skin devices for thermo-electro-tactile stimulation: Materials, design, and fabrication"; *Materials Advances*; 2(6), 1787-1820; link: doi:10.1039/d0ma00817f
2. Schaufler, A., Fritzsche, H., Bertrand, J., Lohmann, C., Boese, A., Friebe, M.; "Sensor-based measurement for advanced monitoring and early detection of PE wear in total knee arthroplasties"; *Current Directions in Biomedical Engineering*; 7(2), 283-286; link: doi:10.1515/cdbme-2021-2072

Conferințe ISI

A. C. Donciu, O. Costea, M. Temneanu, R. Damian, M. Branzila; "New Prototype Architecture For Automated Irrigation Based On Power Line Communications"; Springer series on "Signals and Communication Technology", capitol in "Grid Enabled Remote Instrumentation", pg. 499-509; ISBN 978-0-387-09662-9; link: http://link.springer.com/chapter/10.1007/978-0-387-09663-6_33 citat de:

1. AS Ardeleanu, M Temneanu; "Fundamental frequency estimation based on mean values"; 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 2013; 23-25 May 2013, Bucuresti, Romania; link: <http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6563350>
2. M Temneanu, AS Ardeleanu; "Hardware and software architecture of a smart meter based on electrical signature analysis"; 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 2013; 23-25 May 2013, Bucuresti, Romania; link: <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6563499>

B. Pawel Kopyt, Radu Damian, Malgorzata Celuch, Romeo Ciobanu; "Dielectric Properties of Chiral Honeycombs - Modelling and Experiment"; *Composites Science and Technology*; Volume 70, Issue 7, July 2010, Pages 1080-1088; link: <http://www.sciencedirect.com/science/article/pii/S0266353809003091> citat de:

1. Olszewska, M.; Gwarek, W.; "A novel wide-band microwave absorber with a decreased thickness"; *Microwave Radar and Wireless Communications (MIKON)*, 2012; 19th International Conference on , vol.2, no., pp.446,450, 21-23 May 2012; link: http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6233572&url=http%3A%2F%2Fieeexplore.ieee.org%2F%2F%2Fabs_all.jsp%3Farnumber%3D6233572
2. Olszewska-Placha, M. ; Salski, B. ; Gwarek, W. ; "Angular and spectral characteristics of a wideband microwave absorber"; *Microwaves, Radar, and Wireless Communication (MIKON)*, 2014 20th International Conference on; link: http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6899863&url=http%3A%2F%2Fieeexplore.ieee.org%2F%2F%2Fabs_all.jsp%3Farnumber%3D6899863
3. Barba, I., Grande, A., Lopez-Cabeceira, A.C., Represa, J.; "A bi-isotropic hexachiral grid in PCB"; 2017 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications, NEMO 2017; ; link: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7964251>

C. R. Ciobanu, R.F. Damian, I. Casian Botez; "Electromagnetic Characterization of chiral auxetic metamaterials for EMC applications"; *Computer Standards & Interfaces*; Volume 32, Issue 3, March 2010, Pages 101-109; link: <http://www.sciencedirect.com/science/article/pii/S0920548909000968> citat de:

1. George-Andrei, Ursan; Olga, Plopa; Cosmin, Contofan; et al.; "Optical Evaluation Systems for Anisotropic Composite Materials Quality Assessment"; 2019 INTERNATIONAL CONFERENCE ON ELECTROMECHANICAL AND ENERGY SYSTEMS (SIELMEN); Article Number: 272
2. Ciobanu, Romeo Cristian; Olariu, Marius Andrei; Ursan, George-Andrei; et al.; "Modeling and Simulation of Nanoparticles Dispersion for the Realization of ACFs"; 2018 INTERNATIONAL SYMPOSIUM ON FUNDAMENTALS OF ELECTRICAL ENGINEERING (ISFEE);

D. Constantin CP, Aflori M, Damian RF, Rusu RD; "Biocompatibility of Polyimides: A Mini-Review"; *Materials*; 2019; 12(19):3166; link: <https://www.mdpi.com/1996-1944/12/19/3166> citat de:

1. Xu, X., Fang, Z., Zheng, J., Gao, B., & Xu, W.; "Theoretical and experimental studies of electrochemical impedance based micro calorimetric flow sensor"; 21st International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS 2021; 1223-1226; link: doi:10.1109/Transducers50396.2021.9495732

2. Yeon, S.H., Shu, T., Rogers, E.A., (...), Freed, L.E., Herr, H.M.; "Flexible Dry Electrodes for EMG Acquisition within Lower Extremity Prosthetic Sockets"; IEEE RAS and EMBS International Conference on Biomedical Robotics and Biomechatronics, 2020-November; pp. 1088-1095
3. Aflori, M., Maria, B., Doroftei, F., Drobota, M., Barbalata-Mandru, M., Maria, S., . . . Ursache, S.; "Antimicrobial properties of polyimide film obtained by two-step treatments"; 9th E-Health and Bioengineering Conference, EHB 2021; ; link: doi:10.1109/EHB52898.2021.9657584

Conferințe BDI

A. Pawel Kopyt, Radu Damian, Malgorzata Celuch, Romeo Ciobanu; "Dielectric Properties of Chiral Honeycombs - Modelling and Experiment"; Composites Science and Technology; Volume 70, Issue 7, July 2010, Pages 1080-1088; link: <http://www.sciencedirect.com/science/article/pii/S0266353809003091> citat de:

1. M Olszewska, W Gwarek, M Celuch, B Salski; "A Wide-band Microwave Absorber Based on a Cellular Slab"; Progress In Electromagnetics Research Symposium, Moscow, Russia, August 19-23, 2012; pp:112-113; link: <http://piers.org/piersproceedings/piers2012MoscowProc.php>

B. R. Ciobanu, R.F. Damian, I. Casian Botez; "Electromagnetic Characterization of chiral auxetic metamaterials for EMC applications"; Computer Standards & Interfaces; Volume 32, Issue 3, March 2010, Pages 101-109; link: <http://www.sciencedirect.com/science/article/pii/S0920548909000968> citat de:

1. R Ciobanu, JFB Villalba, T Schreiner, B Tamba; "Thermal Simulation of Biological Tissues with Magnetite Microinsertions under Microwave Energy in Support of Chemo-Hyperthermal Delivery"; 20th IMEKO TC4 International Symposium and 18th International Workshop on ADC Modelling and Testing; Benevento, Italy, September 15-17, 2014
2. Scarpa, F.; "Auxetic and kirigami systems in multiphysics and EMC applications"; International Conference and Exposition on Electrical and Power Engineering (EPE); Iasi, 2014 ; link: <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6969862>

C. Constantin CP, Aflori M, Damian RF, Rusu RD; "Biocompatibility of Polyimides: A Mini-Review"; Materials; 2019; 12(19):3166; link: <https://www.mdpi.com/1996-1944/12/19/3166> citat de:

1. Deshpande, A., Pourshaban, E., Ghosh, C., Banerjee, A., Kim, H., Mastrangelo, C.; "Adhesion strength of PDMS to polyimide bonding with thin-film silicon dioxide"; FLEPS 2021 - IEEE International Conference on Flexible and Printable Sensors and Systems; ; link: doi:10.1109/FLEPS51544.2021.9469779
2. Luo, J., Buslovich, D. G., Alexenko, V. O., Kornienko, L. A., & Panin, S. V.; "Mechanical and tribological properties of three-component high-strength solid-lubricant polyimide based composites"; AIP Conference Proceedings; 2509; link: doi:10.1063/5.0084755

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