UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAŞI
FACULTATEA DE INGINERIE ELECTRICĂ, ENERGETICĂ ŞI INFORMATICĂ APLICATĂ
DEPARTAMENTUL DE MĂSURĂRI ELECTRICE ŞI MATERIALE ELECTROTEHNICE
Domeniu: Inginerie electrica (COD CNADTCU 11)

FIŞA DE VERIFICARE

a îndeplinirii standardelor minimale naţionale de prezentare la concurs pentru postul de profesor universitar

Candidat: OLARIU MARIUS ANDREI Data naşterii: 06/05/1979 Funcţia actuală: Profesor universitar, Instituţia: Universitatea Tehnică ”Gheorghe Asachi” din Iași

Nr. crt.	**Domeniul de activitate**	**Condiţii minimale profesor**	**Punctaj obţinut**
1	Activitatea didactică / profesională (A1)	Minimum 120	**154,71**
2	Activitatea de cercetare (A2)	Minimum 360	**1171.28**
3	Recunoaşterea si impactul activităţii (A3)	Minimum 120	**625,62**
TOTAL (puncte)		**600**	**1952.61**

Nr. crt.	Domeniul activităţilor	Tipul activităţilor	Categorii şi restricţii	Subcategorii	Indicatori (kpi)
0	*1*	*2*	*3*	*4*	*5*
1	**Activitatea didactică şi profesională (A 1)**	**1.1 Cărţi şi capitole în cărţi de specialitate**	1.1.1 Cărţi cu ISBN / capitole ca autor didactice sau monografii, pentru profesor / CS I: minimum 4	1.1.1.1 Internaționale	**nr. pagini / (2 * nr. autori)**
				1. **Marius Andrei Olariu,** Materials for Electrical Engineering, Lambert Academic Publishing, Germany, ISBN 978-3-659-87805-3, 2016	94 / (2 * 1) = **47**
				2. Adelina-Carmen Ianculescu, Daniela C. Berger, Catalina A. Vasilescu, **Marius Olariu**, Bogdan S. Vasile, Lavinia P. Curecheriu, Andreja Gajović and Roxana Truşcă, Incorporation mechanism and functional properties of Ce-doped BaTiO3 ceramics derived from nanopowders prepared by the modified-Pechini method, în Nanoscale ferroelectrics and multiferroics, Wiley, eds.Miguel Algueró, Marty Gregg & Liliana Mitoseriu, ISBN: 978-1-118-93575-0	32 / (2 * 8) = **2**
				3. **Marius Andrei Olariu**, Fabrication of Flexible Screen-Printed Dielectrophoretic Devices, ISBN 978-613-9-45090-9, Lambert Academic Publishing, 2019	96/(2*1)=**48**
				1.1.1.2 Naționale	**nr. pagini / (5 * nr. autori)**
				1. **Marius Andrei Olariu**, Romeo Cristian Ciobanu, Sebastian Teodor Arădoaei, CERCETĂRI PRIVIND ASIGURAREA CALITĂŢII MICRO- ŞI NANOMATERIALELOR PE BAZA ANALIZEI SARCINII ELECTRICE SPAŢIALE, ISBN 978-606-520-675-5, Editura PIM (2009).	124/(5*3)=**8,26**
				2. Sebastian Teodor Arădoaei, Romeo Cristian Ciobanu, **Marius Andrei Olariu**, Gabriela Constantinescu, CERCETĂRI PRIVIND ANALIZA CALITĂŢII MATERIALELOR ELECTROIZOLANTE PRIN METODA SPECTROSCOPIEI DIELECTRICE, ISBN 978-606-520-674-8, Editura PIM Iasi (2009).	193/(5*4)=**9,65**
		1.2 Suport didactic	1.2.1 Suport de curs inclusiv electronic , pentru profesor / CS I: minimum 2		**nr. pagini / (10 * nr. autori)**
				1. **Marius Andrei Olariu,** Materiale pentru inginerie electrică - Curs, 2016, Editura PIM, ISBN 978-606-13-3539-8, 107 pagini	107 / (10 * 1) = **10,7**
				2. **Marius Andrei Olariu,** Etica tehnică și a afacerilor- Note de curs, 2019, 110 pagini (publicat și în format electronic), ISBN: 978-606-13-5397-2, Editura PIM	110/(10*1)=11
			1.2.2 Îndrumare		**nr. pagini / (20 * nr. autori)**

			de laborator / aplicaţii, pentru profesor / CSI: minimum 2	1. **Marius Andrei Olariu,** Indrumar de laborator pentru Materiale pentru inginerie electrica, ISBN 978-606-13-3005-8, 107 pagini, 2016.	107 / (20 * 1) = **5,35**
				2. Marinel Costel Temneanu, **Marius Andrei Olariu**, Indrumar de laborator pentru Materiale pentru inginerie electrica – partea II, 110 pagini, 2019 (suport dicatic), ISBN: 978-606-13-5396-5, Editura PIM	110 / (20 * 2) = **2,75**
		1.3 Coordonare de programe de studii, organizare si formare profesională		1. e3-Practica - Stagii de practică pentru studenții înmatriculați în cadrul programelor de studii din domeniile ingineriei electrotehnice, electronice si energetice (ID312314, ctr. G2024-73764_OIPEO/ 05.11.2024, demarare proiect 01.12.2024) – Buget total nerambursabil - 4.672.071,60 lei	10
				Total activitate didactică şi profesională (A1)	***=154.71***
2	**Activitatea de cerce-tare (A2)**	**2.1 Articole in extenso în reviste cotate WSO Thomson Reuters, în volume proceedings indexate I WSO Thomson Reuters şi brevete de invenţie WOS_Derwent**	Minimum 10, pentru profesor / CS I: minimum 10 articole din care 4 ca prim autor și minimum 4 în reviste		**(25 + 20 * factor impact) / nr. de autori**
				1. Efficacy of Atmospheric Non-thermal Plasma Corona Discharge Under Dry and Wet Conditions on Decontamination of Food Packaging Film Surfaces, Emine Gizem Acar, Dilan Doganoz, Deniz Çavdar, Funda Karbancioglu-Guler, Radu Burlica, Dragos Astanei, **Marius-Andrei Olariu**, Gurbuz Gunes, Packaging Technology and Science 37 (12), 1121-1130, 2024 (IF=2.8) 10.1002/pts.2850	20.28
				2. **(Prim autor)** Dielectrophoretic direct assembling of Mxene flakes at the level of screen-printed interdigitated microelectrodes and their evaluation in gas sensing applications, I Turcan, TA Filip, T Vlad-Bubulac, D Rusu, **MA Olariu**, 2D Materials 11 (4), 045014, 2024 (IF=4.5) 10.1088/2053-1583/ad6ba4	52.50
				3. **(Prim autor)** Dielectric anisotropy in self-assembling MXene-based lyotropic nematic compounds, **MA Olariu**, T Vlad-Bubulac, TA Filip, I Turcan, Journal of Physics D: Applied Physics 57 (39), 395303, 2024 (IF=3.1) 10.1088/1361-6463/ad556a	38.50
				4. **(Prim autor)** Screen-printed interdigitated microelectrodes employment in dielectrophoretic manipulation of MWCNTs, **MA Olariu**, TA Filip, CA Peptu, I Turcan, Microchimica Acta 190 (11), 453, 2023 (IF=5.7) doi.org/10.1007/s00604-023-06023-3	64.50
				5. **(Prim autor)** Improving Printability of Polytetrafluoroethylene (PTFE) with the Help of Plasma Pre-Treatment, **MA Olariu,** R Herrero, DG Astanei, L Jofré, J Morentin, TA Filip, R Burlica, Polymers 15 (16), 3348, 2023 (IF=5.0) https://doi.org/10.3390/polym15163348	37.00

				6. Flame-Resistant Poly (vinyl alcohol) Composites with Improved Ionic Conductivity, D Serbezeanu, C Hamciuc, T Vlad-Bubulac, AM Ipate, G Lisa, I Turcan, ..., Membranes 13 (7), 636	22.00
				7. **(Prim autor) Olariu, M.A.;** Tucureanu, C.; Filip, T.A.; Caras, I.; Salageanu, A.; Vasile, V.; Avram, M.; Tincu, B.; Turcan, I. HT-29 Colon Cancer Cell Electromanipulation and Assessment Based on Their Electrical Properties. Micromachines 2022, 13, 1833. https://doi.org/10.3390/mi13111833 (IF=3.523)	18.99
				8. Ioana Radu, Ina Turcan, Alexandru V. Lukacs, Tiberiu Roman, Georgiana-Andreea Bulai, **Marius Andrei Olariu**, Ioan Dumitru, Aurel Pui, Structural, dielectric and gas sensing properties of gadolinium (Gd3+) substituted zinc-manganese nanoferrites, Polyhedron, Volume 221, 2022, 115893, ISSN 0277-5387, https://doi.org/10.1016/j.poly.2022.115893 (IF=2.975)	18.62
				9. Schreiner, T.G.; Turcan, I.; **Olariu, M.A.**; Ciobanu, R.C.; Adam, M. Liquid Biopsy and Dielectrophoretic Analysis—Complementary Methods in Skin Cancer Monitoring. Appl. Sci. 2022, 12, 3366. https://doi.org/10.3390/app12073366 (IF=2.838)	28.70
				10. Astanei, D.; Burlica, R.; Cretu, D.-E.; **Olariu, M**.; Stoica, I.; Beniuga, O. Treatment of Polymeric Films Used for Printed Electronic Circuits Using Ambient Air DBD Non-Thermal Plasma. Materials 2022, 15, 1919. https://doi.org/10.3390/ma15051919 (IF=3.748)	29.98
				11. Hamciuc, C.; Asandulesa, M.; Hamciuc, E.; Roman, T.; **Olariu, M.A.;** Pui, A. Novel Polyimide/Copper-Nickel Ferrite Composites with Tunable Magnetic and Dielectric Properties. Polymers 2021, 13, 1646. https://doi.org/10.3390/polym13101646, IF=4,329	33,86
				12. **(Prim autor) Marius Andrei Olariu,** Corneliu Hamciuc, Mihai Asandulesa, Elena Hamciuc, Elena-Luiza Epure, Violeta Tsakiris, Gabriela Lisa, Study on highly thermostable low-k polymer films based on fluorene-containing polyetherimides, POLYMER ENGINEERING AND SCIENCE, Volume61, Issue10, Page2639-2652, 2021, DOI10.1002/pen.25792, IF=2.428	18,16
				13. **(Prim autor)** Turcan, I.; Caras, I.; Schreiner, T.G.; Tucureanu, C.; Salageanu, A.; Vasile, V.; Avram, M.; Tincu, B.; **Olariu, M.A**. Dielectrophoretic and Electrical Impedance Differentiation of Cancerous Cells Based on Biophysical Phenotype. Biosensors 2021, 11, 401. 2021, https://doi.org/10.3390/bios11100401, IF=5.519	27,86
				14. Mirela Airimioaei, Vlad A.Lukacs, Isabelle Lisiecki, Patricia Beaunier, Juliette Blanchard, Doina Lutic, Sorin Tascue, Petronel Postolache, Cristina E.Ciomaga, **Marius Olariu,** Liliana Mitoseriu, Biomorphic tubular nickel oxide structures: Effect of the synthesis parameters on their structural and functional properties, surface-related applications, Journal of Alloys and Compounds, https://doi.org/10.1016/j.jallcom.2019.152543, 2019 (apare în volumul 816, Martie 2020), IF=4.175	19,63

				15. **(Prim autor) Olariu, M.,** Arcire, A. & Plonska-Brzezinska, M.E., Controlled Trapping of Onion-Like Carbon (OLC) via Dielectrophoresis, Journal of Electronic Materials (2016). doi:10.1007/s11664-016-4870-1, IF=1,579 **Accession Number: WOS:000391126900055**	18.86
				16. (Prim autor) Olariu, M. A.; Hamciuc, C.; Neacsu, O. M.; et al., MICROWAVE DIELECTRIC PROPERTIES OF POLYIMIDE COMPOSITES BASED ON TiO2 NANOTUBES AND CARBON NANOTUBES, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES Volume: 14 Issue: 1 Pages: 37-44, IF=0,673 **Accession Number: WOS:000463356800006**	7.692
				17. (Prim autor) Olariu, M.; Arcire, A., Electrostimulated Desorption Hydrogen Sensor Based on Onion-Like Carbons as a Sensing Element, Journal of Electronic Materials, Volume: 47, Issue: 11, Pages: 6476-6483, NOV 2018, IF=1,579 **Accession Number: WOS:000445474800017**	28.29
				18. **(Prim autor) M. A. Olariu,** Corneliu Hamciuc, Lidia Okrasa, Elena Hamciuc, Lubomir Dimitrov, Yuri Kalvachev, Electrical properties of polyimide composite films containing TiO2 nanotubes, 2015, DOI: 10.1002/pc.23851, IF=2,004 **Accession Number: WOS:000415812000027**	10.846
				19. (Prim autor) Olariu, M.A., Ciobanu, R.C., Ursache, S., Aradoaei, S., Experimental regarding the evolution of space charge in polyolefins insulation, Annual Report - Conference on Electrical Insulation and Dielectric Phenomena, CEIDP, 14 October 2007 through 19 October 2007; DOI: 10.1109/CEIDP.2007.4451585, Category number07CH37929; Code 73236, IF=0 **Accession Number: WOS:000254276700103**	6.25
				20. Elena Hamciuc, Mircea Ignat, Corneliu Hamciuc, Iuliana Stoica, Lubomir Dimitrov, Yuri Kalvachev, **Marius Olariu**, Electromechanical properties of polyimide composites containing titanium dioxide nanotubes, 2015/8/1, Journal High Performance Polymers, Volume 27, Issue 5, Pages 590-598., DOI: 10.1177/0954008315584185, IF=1,090 **Accession Number: WOS:000357694400010**	6.685
				21. SUAT CETINER, SEYMA SIRIN, **MARIUS OLARIU** and A. SEZAI SARAC, Frequency and Temperature Dependence of Dielectric Behaviors for Conductive Acrylic Composites, Advances in Polymer Technology, Vol. 35, No. 1, 2016, DOI 10.1002/adv.21523, IF=2,073 **Accession Number: WOS:000370077600003**	16.615
				22. Corneliu Sergiu Stan, Marcel Popa, **Marius Olariu**, Marius Sebastian Secula, Synthesis and Characterization of PSSA-Polyaniline Composite with an Enhanced Processability in Thin Films Open Chemistry. Volume 13, Issue 1, ISSN (Online) 2391-5420, DOI: 10.1515/chem-2015-0057, December 2014, IF=1,425 **Accession Number: WOS:000355403100055**	13.375

				23. Cetiner, S ; **Olariu, M** ; Sarac, AS, FABRICATION OF POLY(ACRYLONITRILE-CO-VINYL ACETATE)-POLY(N-METHYL PYRROLE) COMPOSITE NANOFIBERS, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES, Volume: 8 Issue: 2 Pages: 677-683, Published: APR-JUN 2013, IF= 0.673 **Accession Number: WOS:000322737500020**	12.82
				24. Suat Cetiner, **Marius Olariu**, Romeo Ciobanu, Hale Karakas, Fatma Kalaoglu and A. Sezai Sarac, Polypyrrole/polyacrylonitrile composite films: Dielectric, spectrophotometric and morphologic characterization, FIBERS AND POLYMERS, Volume: 11, Issue: 6, Pages: 843-850, Published: SEP 2010, ISSN: 1229-9197, DOI: 10.1007/s12221-010-0843-9, IF=1,022 **Accession Number: WOS:000282512800006**	7.573
				25. Suat Cetiner, Hale Karakas, Romeo Ciobanu**, Marius Olariu**, N. Ugur Kaya, Cem Unsal, Fatma Kalaoglu, A. Sezai Sarac,, Polymerization of pyrrole derivatives on polyacrylonitrile matrix, FTIR-ATR and dielectric spectroscopic characterization of composite thin films, Source: SYNTHETIC METALS, Volume: 160, Issue: 11-12, Pages: 1189-1196, Published: JUN 2010, ISSN: 0379-6779, DOI: 10.1016/j.synthmet.2010.03.007, IF=2,526 **Accession Number: WOS:000279625900011**	9.44
				26. Aradoaei S, Darie R, Constantinescu G, **Olariu M**, Ciobanu R., Modified lignin effectiveness as compatibilizer for PET/LDPE blends containing secondary materials, , JOURNAL OF NON-CRYSTALLINE SOLIDS, Volume: 356 Issue: 11-17 Pages: 768-771 Published: APR 1 2010, ISSN: 0022-3093, DOI: 10.1016/j.jnoncrysol.2009.11.046, IF=2,488 **Accession Number: WOS:000276665500050**	14.95
				27. Hamciuc, E. Hamciuc, **M. Olariu,** R. Ciobanu, Thermal and electrical behaviour of some hybrid polyimide films containing barium and titanium oxides, POLYMER INTERNATIONAL, Volume: 59, Issue: 5, Pages: 668-675, Published: MAY 2010, ISSN: 0959-8103, DOI: 10.1002/pi.2747, IF=2,352 **Accession Number: WOS:000277767500015**	18.01
				28. Hamciuc E, Hamciuc C, **Olariu M**, Thermal and Electrical Behavior of Polyimide/Silica Hybrid Thin Films, POLYMER ENGINEERING AND SCIENCE, Volume: 50, Issue: 3, Pages: 520-529, Published: MAR 2010, ISSN: 0032-3888, DOI: 10.1002/pen.21562 IF=1,551 **Accession Number: WOS:000275008700011**	18.673
				29. C. Hamciuc, E. Hamciuc, I. Bacosca, **M. Olariu,** Thermal and electrical properties of some poly(ether-imide) thin films, Materiale Plastice, 47, 11-15, 2010, ISSN: 0025-5289, IF=1,278 **Accession Number: WOS:000276587100003**	12.64
				30. Hamciuc C, Hamciuc E, Vlad S, **Olariu M,** Fluorinated Block Copolymers Containing Imide and 1,3,4-oxadiazole Rings, MATERIALE PLASTICE, Volume: 45, Issue: 4 Pages: 356-361, Published: DEC 2008, **ISSN:** 0025-5289, IF=1,278 **Accession Number: WOS:000262600800010**	12.64

				Total 2.1	**645.91**
		2.2 Articole în reviste şi volumele unor manifestă riştiinţific e indexate în alte baze de date internaţio nale(BDI)	Minimum 20, pentru profesor / CS I din care 5 în reviste		**20 / nr. de autori**
				1. **(REVISTA1) M. Olariu,** A. Arcire, Methane and hydrogen gas sensing properties of fullerenes C60 for breath analyzing purpose, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, Volumul 64 (68), Numărul 3, pp. 107-119, 2018, Secţia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ	10
				2. **Olariu Marius**, Arcire Alexandru, Improving Electromanipulation Capacity of Dielectrophoretic Arrays Based on Variation of Interdigitated Microelectrode's Geometry, DOI: 10.1109/ICEPE.2016.7781298, Electronic ISBN: 978-1-5090-6129-7, pg. 37-41, 9th International Conference and Exposition on Electrical and Power Engineering, EPE 2016 **INSPEC Accession Number:** 16525883	10
				3. Baluta, G., **Olariu M**., Numerical simulation of BLDC electrical drive systems closed-loop control and sensorless control, 2014, EPE 2014 - Proceedings of the 2014 International Conference and Exposition on Electrical and Power Engineering, Article number 6970047, Pages 927-932, ISBN:978-1-4799-5849-8 **Accession Number: WOS:000353565300173**	10
				4. **(REVISTA2)** Cetiner, S.; **Olariu, M.**; Kaya, N. U.; Aradoaei S, THERMALLY STIMULATED DISCHARGE CURRENTS OF POLY(ACRYLONITRILE-CO-ACRYLIC ACID)-POLYPYRROLE COMPOSITES, March 2013, Key Engineering Materials 543:154-158, DOI: 10.4028/www.scientific.net/KEM.543.154 **Accession Number: WOS:000319023100038**	5
				5. Scarlatache, V.-A., **Olariu, M.,** Ursache, S., Ciobanu, R.C., Pasquale, M.b Magnetic and dielectric losses of a nanocomposites polymer matrix reinforced with ferromagnetic powders, 2012, Article number 6463940, Pages 125-128, 2012, ISBN:978-1-4673-1172-4; 978-1-4673-1173-1, 7th International Conference and Exposition on Electrical and Power Engineering, EPE 2012 **Accession Number: WOS:000324685300026**	4
				6. **(REVISTA3)** Caprile. A, Coisson A, Fiorillo, Kabos P, Manu OM, Olivetti A, **Olariu MA**, Pasquale M, Scarlatache VA, Microwave Behavior of Polymer Bonded Iron Oxide Nanoparticles, IEEE TRANSACTIONS ON MAGNETICS Volume: 48 Issue: 11 Pages: 3394-3397 DOI: 10.1109/TMAG.2012.2200462 Published: NOV 2012, IF=1,467 **Accession Number: WOS:000310194400169**	2.22

				7. **Olariu, M.,** Scarlatache, V.-A., Niagu, A., Ursache, S., Ciobanu, R.C., The influence of frequency and temperature upon dielectric behavior of polypropylene reinforced with multi-walled carbon nanotubes (MWCNTs), Proceedings of the International Conference on Optimisation of Electrical and Electronic Equipment, OPTIM, 6231902, pp. 287-292, ISSN: 1842-0133 **Accession Number: WOS:000398866700043**	4
				8. **(REVISTA4)** Aradoaei, S.T., Darie, R.N., Vasile, C., Mosneagu**, M., Olariu**, M.A., Morphology and dielectric properties of some LDPE/PA blends in presence of compatibilizers, 2012 Source of the DocumentSolid State Phenomena 188, pp. 268-274, ISSN: 1012-0394, DOI: 10.4028/www.scientific.net/SSP.188.268 **Accession Number: WOS:000308047400045**	4
				9. **(REVISTA5)** S. Ursache, R. C. Ciobanu, **M. Olariu**, and A. Neamtu, Dielectric Properties and Electromagnetic Behaviour of Pan/Nmpy Conductive Composites, International Journal of Information and Electronics Engineering, Vol. 3, No. 4, July 2013, DOI: 10.7763/IJIEE.2013.V3.350 **Revista indexata INSPECT**	5
				10. **(REVISTA6)** Kim, Ik Jin; Zhao, Wei; Chung, Jeong Ho; **Olariu Marius;** Trandabat, Alexandru F.; Ciobanu, Romeo-Cristian, Effect of interconnected molecular types on the packing rate of self-assembled monolayers of TMA-A zeolite nanocrystals on glass. JOURNAL OF CERAMIC PROCESSING RESEARCH, 11 (3), pp. 303-307, 2010. . IF=0,327 **Accession Number: WOS:000280125600004**	3.33
				11. Ciobanu, R., Schreiner, C., **Olariu, M**., Evaluation via PEA measurements of paper-oil insulation submitted to gamma radiation, Proceedings of 2008 International Conference on Condition Monitoring and Diagnosis, CMD 2008, Article number 4580500, Pages 1187-1190, ISBN:978-1-4244-1621-9 **Accession Number: WOS:000257946000122**	6.67
				12. Damian, R. , Ciobanu, R., Brînzilă, M., **Olariu, M.,** Stability considerations and efficient computing in chiral materials electromagnetic simulations, 15th IMEKO Symposium on Novelties in Electrical Measurements and Instrumentation in Parallel with the 12th Workshop on ADC Modelling and Testing; Iasi; Romania; 19 September 2007 through 21 September 2007; Code 100763 **Articol indexat SCOPUS**	5

				13. Pislaru, M. , Trandabat, A., **Olariu, M.,** Neuro fuzzy system for industrial processes fault diagnosis, 15th IMEKO Symposium on Novelties in Electrical Measurements and Instrumentation in Parallel with the 12th Workshop on ADC Modelling and Testing; Iasi; Romania; 19 September 2007 through 21 September 2007; Code 100763 **Articol indexat SCOPUS**	6.67
				14. Olariu, M ; Aradoaei, S; Ursache, S; Hanganu, Space charge evolution in nano-materials determined via dielectric spectroscopy, PROCEEDINGS OF THE 10TH INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT, VOL I: ELECTROTECHNICS, Pages: 93-98, Published: 2006, ISBN:978-973-635-703-9 **Accession Number: WOS:000256417000019**	5
				15. Olariu, M, Ursache, S; Aradoaei, S; Socotar, Quality of power capacitors dielectric via space charge measurements, PROCEEDINGS OF THE 10TH INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT, VOL I: ELECTROTECHNICS, Pages: 153-158, Published: 2006, ISBN:978-973-635-703-9 **Accession Number: WOS:000256417000029**	5
				16. Varga, C ; **Olariu, M**; Trandabat, A; Socotar, D , Modelling the device reliability by use of negative bias temperature instability - NTBI: Principle and brief application, Management of Technological Changes, Book 1, 117-120, Published: 2005, ISBN:978-960-8475-04-5 **Accession Number: WOS:000249920000020**	5
				17. Aradoaei, S.; Hanganu, S.; Donciu, C.; **Olariu, M,** Socotar, D, Prototype architecture of a remote teaching laboratory, Edited by: Rusu, C; Phillis, Y, Conference: 4th International Conference on Management of Technological Changes Location: Chania, GREECE Date: AUG 19-20, 2005, Management of Technological Changes, Book 1 Pages: 179-182 Published: 2005, ISBN:978-960-8475-04-5 **Accession Number: WOS:000249920000031**	4
				18. Olariu, M.; Constantinescu, G.; Prisecaru, I.; Aradoaei, S., Advanced composites from recycled polyethylene: Technology optimization via thermal step method, Edited by: Rusu, C; Phillis, Y, Conference: 4th International Conference on Management of Technological Changes Location: Chania, GREECE Date: AUG 19-20, 2005, Management of Technological Changes, Book 1 Pages: 287-290 Published: 2005, ISBN:978-960-8475-04-5 **Accession Number: WOS:000249920000051**	5

				19. **Olariu, M.;** Aradoaei, S.; Prisecaru, I.; Ciobanu, R, Space charge study via thermal step method and applications in new materials quality, Edited by: Rusu, C; Phillis, Y, Conference: 4th International Conference on Management of Technological Changes Location: Chania, GREECE Date: AUG 19-20, 2005 , , Management of Technological Changes, Book 1 Pages: 291-296 Published: 2005, ISBN:978-960-8475-04-5 **Accession Number: WOS:000249920000052**	5
				20. Pislaru, M.; Schreiner, C.; Trandabat, A.; **Olariu, M**, Neuro-fuzzy system for monitoring and control in industrial processes, Edited by: Rusu, C; Phillis, Y, Conference: 4th International Conference on Management of Technological Changes Location: Chania, GREECE Date: AUG 19-20, 2005, Management of Technological Changes, Book 2 Pages: 91-94 Published: 2005, ISBN:978-960-8475-05-2 **Accession Number: WOS:000249920900016**	5
				21. Temneanu, C.; Temneanu, M.; **Olariu, M**.; Socotar, D., Modeling the hysteretic behavior using fuzzy sets, Edited by: Rusu, C; Phillis, Y, Conference: 4th International Conference on Management of Technological Changes Location: Chania, GREECE Date: AUG 19-20, 2005 , MANAGEMENT OF TECHNOLOGICAL CHANGES, BOOK 2 Pages: 111-114 Published: 2005, ISBN:978-960-8475-05-2 **Accession Number: WOS:000249920900020**	5
				22. Varga, C.; Socotar, D.; Hanganu, S.; **Olariu, M.,** Trandabat, A., Advanced reliability studies in microelectronics: Upon p-MOSFET structures technological reliability, Edited by: Rusu, C; Phillis, Y, Conference: 4th International Conference on Management of Technological Changes Location: Chania, GREECE Date: AUG 19-20, 2005, Management of Technological Changes, Book 2 Pages: 183-186 Published: 2005, ISBN:978-960-8475-05-2 **Accession Number: WOS:000249920900033**	4
				23. Aradoaei, S.; **Olariu, M.;** Ciobanu, R.; Constantinescu, G, Sustainable development in materials recycling by advanced pe/pet-wood sawdust compounds, Edited by: Rusu, C; Phillis, Y, Conference: 4th International Conference on Management of Technological Changes Location: Chania, GREECE Date: AUG 19-20, 2005 , Management of Technological Changes, Book 2 Pages: 293-296 Published: 2005, ISBN:978-960-8475-05-2 **Accession Number: WOS:000249920900053**	5
				Total 2.2	**123,89**
		2.4 Granturi /	2.4.1 Director /	**2.4.1.1 Internaţionale**	**20 * ani de desfăşurare**

		proiecte câştigate prin competiţie	responsabil - minimum 2 pentru profesor / CS I	1. Development of implantable bio-sensors for neurotransmitters evaluation, based on electrochemically coated conjugated polymer composites on carbon nano-porous structures / CarPolSense, PNII Capacitati M3, 567/2012, 2012-2013, Buget TUIASI – 26578lei	20*2=40
				2. Explorarea proprietăților electrice și magnetice ale unei noi clase exotice de materie cuantică: izolatorii topologici (QuanTop), Bilateral Romania-China, 45BM/2016, 2016-2017 (15 luni) – Buget TUIASI – 17401 lei	(20/12)*15=24.99
				3. Tehnologie de fabricare a filmelor conductive anizotropice nanostructurate cu arhitectură adaptabilă sub acțiunea câmpului electromagnetic, pentru aplicații electronice și biomedicale (cod COFUND-MANUNET III-AniConFilm-1), ctr. 18/2018, 2018-2020 Buget TUIASI - 551100 lei	20*2=40
				Total 2.3.1.1	**104,99**
				2.4.1.2 Naţionale	**10 * ani de desfăşurare**
				1. DEZVOLTAREA PORTOFOLIULUI DE PRODUSE INOVATIVE AL SC CAOM SA PRIN TRANSFERUL TEHNOLOGIC AL UNEI MARCI TENSOMETRICE CU SENSIBILITATE RIDICATĂ, PNIII-P2-2.1-PTE, ctr. 39PTE/2016, 2016-2018, buget TUIASI - 578583 lei	10*3=30
				2. Proiecte de mobilitate pentru tineri cercetatori din diaspora, PN-III-P1-1.1-MCT-2016-0010, PN III RU MCT 4/2016, 112 zile(3 luni) – Buget TUIASI: 11120 lei	2,49
				3. Retea wireless de senzori pasivi de hidrogen de tip flex-on-chip pe baza de OLC-uri (onion-like carbon) manipulate cu ajutorul dielectroforezei, H2Sense, PNII PCCA2013, ctr. 43/2014, 07.2014-09.2017 – buget TUIASI 685792 lei	10*4=40
				4. CERCETARII ASUPRA ASIGURARII CALITATII BIO- SI NANO-MATERIALELOR CU AJUTORUL ANALIZEI SARCINII ELECTRICE SPATIALE – 2007-2008, ctr. 33GR/2007, CNCSIS 50, Tema 38, respective tema 38 – Buget TUIASI – 100000lei	10*2=20
				5. Platforma microfluidică pentru detecția celulelor tumorale circulante (CTC) concentrate prin dielectroforeză-magnetoforeză și analizate prin spectroscopie dielectrică și de impedanță electrochimică-uCellDetect, PN III – P2-1.2-PCCDI-3PCCDI/2018, (2018-2020), Buget TUIASI - 1586250 lei	10*2=20
				6. Chemirezistor serigrafiat pe bază de MXenes electromanipulate cu ajutorul dielectroforezei pentru detecția compușilor organici volatili (COV) [MX-VOC], TE 133 din 25/05/2022, (PN-III-P1-1.1-TE-2021-0751)	10*2=20

				Total 2.3.1.2	**132,49**
			2.4.2 Membru în echipă	2.4.2.1 Internaţionale	**4 * ani de desfăşurare**
				1. Materiale inteligente tip Chiral-Fagure pentru aplicatii multisectoriale , Contract 2003-3.4.2.1-2 / STRP 013641 /2005, UTI: 1.527.600 RON, STRP NMP /CE	8
				2. Ecrane si panouri absorbante pentru utilizari speciale bazate pe compozite nano- structurale cu arhitectura predefinita si proprietati dielectrice si electromagnetice personalizate, ANCS, Capacitati CB63/2008 ,UTI: 185 180 RON, Romania-Turcia	8
				3. Filme ceramice subţiri nanoporoase din cristale zeolitice pe bază de siliciu pentru materiale cu constanta dielectrica redusă, Bilateral România – Coreea de Sud, Nr. 64/2008, 204851,07 RON, 2008 – 2009	8
				4. Remote instrumentation for new generation regional grids, Ro-Bu ANCS Cooperare bilaterală România Bulgaria, contract 62/2008	8
				5. Nanocompozite polimerice conductive cu structura predefinita si proprietati dielectrice si EMC dedicate ecranarii si realizarii de panouri absorbante pentru cladiri speciale, CNMP, MNT 7-014/2008, UTI: 1 900 000 RON	8
				6. Compozite polimerice nano-active avansate cu metale rare şi oxizi metalici, pentru aplicaţii în microelectronică în domeniul GHz, (RO-CY-NANOXPOL), 436/2010	12
				7. Terapie hipertermo-chemoterapica combinata pentru controlul tumorilor hepatice, bazata pe activarea cu microunde a unor nanostructuri functionalizate imobilizate subendotelial (CheTherDel), EURONANOMED, 4-002 / 2012	12
				8. Low-cost and energy-efficient LTCC sensor/IR-UWB transceiver solutions for sustainable healthy environment (SENSEIVER), FP7-PEOPLE-2011-ITN MSC, 2013-2015	8
				9. Contract: 50/2016, ERANET, "Nanomateriale și arhitecturi inovatoare pentru aplicații integrate de captare a energiei piezoelectrice ", HarvEnPiez.	4
				10. Contract: 83/2016, ERANET, "Zone urbane bioclimatice inteligente cu emisii reduse de carbon ca insule inovatoare energetic într-un oraș durabil ", SMART URBAN ISLE	4
				11. Contract: 9/2015, ERANET, "Senzori integrați cu caracteristici microfluidice folosind tehnologia LTCC", INTCERSEN.	8
				12. Dezvoltarea de senzori integrati folosind tehnologia LTCC pentru aplicatii in domenii ca: medicina, securitate, mediu, PN2 Capacitati 553/2012	8
				TOTAL 2.3.2.1	**96**

				2.4.2.2 Naţionale	**2 * ani de desfăşurare**
				1. Dezvoltarea instituțională a TUIASI prin creșterea vizibilității și a performanței cercetării, PN III-1-1.2-PFE, nr. 9PFE/2018, 2018-2020	**6**
				2. Dezvoltarea capacităţii de integrare a României în cadrul programelor, platformelor şi reţelelor europene in domeniul sistemelor virtuale si distribuite de design si management al cercetarii,, CNMP, CEEX M3, 188/2006, UTI 110 000 RON	**6**
				3. Dezvoltarea parteneriatelor C/D prin includerea excelentei romanesti, in vederea promovarii de proiecte comune in domeniul materialelor avansate nanostructurate destinate ecranelor de protectie la radiatii electromagnetice in domeniul GHz, CNMP, CEEX M3 202/2006, UTI: 150 000 RON	**6**
				4. Masurari dielectrice avansate dedicate domeniului bio si nano compozitelor, UTI: 520 000 RON CNCSIS CEEX M2PD 1527/2006	**6**
				5. Ecrane pentru constructii speciale speciale bazate pe structuri chiral fagure, CEEX M1, 46/2006, UTI: 555 000 RON	**6**
				6. Biocompozite obtinute prin reciclarea deseurilor de PET si utilizarea de derivaţi ligno-celulozici, CEEX M1, 79/2006	**6**
				7. Dezvoltatea capacitatii de integrare a Romaniei in cadrul programelor, platformelor si retelelor europene in domeniul metodelor comparative neinvazive si nedistructive de analiza a calitatii si sigurantei alimentelor, CEEX M3,173/ 2006, UTI: 150 000 RON	**6**
				8. Dezvoltarea capacităţii de integrare a României în cadrul programelor, platformelor şi reţelelor europene in domeniul obtinerii de biocompozite cu aplicatii multisectoriale, CEEX M3, 179/ 2006, UTI: 130 000 RON	6
				9. Metodologie dielectrica nedistructiva, neinvaziva, comparativa de detectare rapida a ingredientilor cu potential factor de risc pentru sanatate din produsele alimentare, PN2 Parteneriate / CNMP 51-015/2007 UTI: 1 050 000 RON	**6**
				10. Haine ESD realizate din fibre cu miez conductor tricotate bistrat (GarmESD), PN2 Parteneriate 179_PCCA_2012 – 1078000 lei	**8**
				11. Materiale inteligente tip Chiral-fagure pentru aplciatii multisectoriale, Corint, CEEX M3, CEEX 115/2005	**6**
				TOTAL 2.3.2.2	**68**
				Total activitate de cercetare (A2)	***1171.28***

3. Recunoastere si impactul activitatii (A3)

3.1 Citări în reviste WOS şi volumele conferinţelor WOS

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	8. Synthesis, characterization, and conductivity studies of polypyrrole/copper sulfide nanocomposites, By: Ramesan, M. T., JOURNAL OF APPLIED POLYMER SCIENCE Volume: 128 Issue: 3 Pages: 1540-1546 Published: MAY 5 2013 9. Preparation and Properties of Fe3O4/Polypyrrole/Poly(Pyrrole-Co- Acrylamide) Nanocomposites, By: Ramesan, M. T., INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS Volume: 62 Issue: 5 Pages: 277-283 Published: MAR 1 2013 10. Composite films based on shape memory polyurethanes and nanostructured polyaniline or cellulose-polyaniline particles, By: Casado, U. M.; Quintanilla, R. M.; Aranguren, M. I.; et al., SYNTHETIC METALS Volume: 162 Issue: 17-18 Pages: 1654-1664 Published: OCT 2012 11. Polypyrrole/copper(II) acetylacetonate composites prepared by in situ chemical oxidative polymerisation, By: Ozkazanc, Ersel, SYNTHETIC METALS Volume: 162 Issue: 11-12 Pages: 1016-1023 Published: JUL 2012 12. In Situ Synthesis, Characterization and Conductivity of Copper Sulphide/Polypyrrole/Polyvinyl Alcohol Blend Nanocomposite, By: Ramesan, Manammel Thankappan, POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING Volume: 51 Issue: 12 Pages: 1223-1229 Published: 2012 13 Structure, optical and electrical behaviour of x(2Bi(2)O(3)center dot MnO)center dot(10-x)B2O3 glasses By: Abdel-Hameed, S. A. M.; Fathi, A. M.; Eltohamy, M. JOURNAL OF NON-CRYSTALLINE SOLIDS Volume: 510 Pages: 71-80 Published: APR 15 2019 14. Composite nanofibers through in-situ reduction with abundant active sites as flexible and stable anode for lithium ion batteries By: Wu, Songhao; Han, Yidong; Wen, Kechun; et al. COMPOSITES PART B-ENGINEERING Volume: 161 Pages: 369-375 Published: MAR 15 2019 15. A New Approach for Preparation of Smart Conductive Textiles by Polyaniline through in-situ Polymerization Technique By: Ramadan, Mohmmed Abdel Menaem; Fathi, Ahlam; Shaarawy, Sahar; et al. EGYPTIAN JOURNAL OF CHEMISTRY Volume: 61 Issue: 3 Pages: 479-492 Published: MAY-JUN 2018 16. Guanine oxidation signal enhancement in single strand DNA with polyacrylonitrile/polyaniline (PAN/PAni) hybrid nanofibers By: Cam, Ezginur; Tanik, Nilay Aladag; Cerkez, Idris; et al.		

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13	Dielectrophoretic and Electrical Impedance Differentiation of Cancerous Cells Based on Biophysical Phenotype, Turcan, I; Caras, I; (...); Olariu, MA, Oct 2021, BIOSENSORS-BASEL, 11 (10) **Citată în:** 1. Dielectrophoretic and electrochemical impedance mapping of metastatic potential in MDA-MB-231 breast cancer cells using inkjet-printed castellated microarray, Awad, MF; Habli, Z; (...); Khraiche, ML, Sep 10 2024, LAB ON A CHIP, 24 (18) , pp.4264-4274 2. Amyloid-β Oligomer-Induced Electrophysiological Mechanisms and Electrical Impedance Changes in Neurons, Sun, SM; Ma, Q; (...); Xu, J, Feb 2024, SENSORS, 24 (4) 3. Nanotechnology and Cancer Bioelectricity: Bridging the Gap Between Biology and Translational Medicine, Moreddu, R, Jan 2024, ADVANCED SCIENCE, 11 (1) 4. Design and Modeling of a Device Combining Single-Cell Exposure to a Uniform Electrical Field and Simultaneous Characterization via Bioimpedance Spectroscopy, Bettenfeld, R; Claudel, J; (...); Schlauder, C, Apr 2023, SENSORS, 23 (7) 5. Protein Albumin Manipulation and Electrical Quantification of Molecular Dielectrophoresis Responses for Biomedical Applications, Nasir, NSA; Deivasigamani, R; (...); Buyong, MR, Aug 2022, MICROMACHINES, 13 (8)	**7**	**6.42**

Nr crt.	Lucrarea citata	nr citari	Punctaj
	6. Label-free detection and enumeration of rare circulating tumor cells by bright-field image cytometry and multi-frame image correlation analysis, Du, ZQ; Li, Y; (...); Yang, XN, Sep 13 2022, LAB ON A CHIP, 22 (18) , pp.3390-3401 7. A Label-Free and Affordable Solution to Point-of-Care Testing Devices, Lee, MJ, Apr 2022, BIOSENSORS-BASEL, 12 (4)		
14	**Preliminary Insights into Electro-Sensitive Ecolubricants: A Comparative Analysis Based on Nanocelluloses and Nanosilicates in Castor Oil, García-Morales, M; Fernández-Silva, SD; (...); Delgado, MA, Sep 2020, PROCESSES, 8 (9)** **Citată în:** 1. Viscoelastic properties of electro-rheological fluids containing ion-conductive polyurethane particles under electric field, Ishii, S; Takahashi, H and Sakai, Y, Dec 1 2024, SMART MATERIALS AND STRUCTURES, 33 (12) 2. Highly Porous Particles of Cellulose Derivatives for Advanced Applications, Kuznetsov, NM; Zakharevich, AA; (...); Chvalun, SN, Dec 2024, CHEMPLUSCHEM, 89 (12) 3. Plant-Based Oils for Sustainable Lubrication Solutions-Review, Berman, D, Sep 2024, LUBRICANTS, 12 (9) 4. Composites from Recycled Polypropylene and Carboxymethylcellulose with Potential Uses in the Interior Design of Vehicles, Caramitu, AR; Ciobanu, RC; (...); Bors, AM, Aug 2024, POLYMERS, 16 (15) 5. Multiobjective optimization of hydrostatic thrust bearing operating with electrorheological lubricant using Taguchi-fuzzy technique, Singh, AK; Kumar, V and Singh, SJ, Nov 2024, PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART J-JOURNAL OF ENGINEERING TRIBOLOGY 6. A high performance nanocellulose-PVDF based piezoelectric nanogenerator based on the highly active CNF@ZnO via electrospinning technology, Zhu, QT; Song, XY; (...); Yuan, QP, Aug 2024, NANO ENERGY, 127 7. Advancements in Biodegradable Printed Circuit Boards: Review of Material Properties, Fabrication Methods, Applications and Challenges, Soon, CF; Yee, SK; (...); Heng, C, Sep 2024, INTERNATIONAL JOURNAL OF PRECISION ENGINEERING AND MANUFACTURING, 25 (9) , pp.1925-1954 8. Study of the dielectric and chemical properties of cellulose bio-based composites, Khouaja, A; Koubaa, A and Ben Daly, H, Aug 2024, INDUSTRIAL CROPS AND PRODUCTS, 214 9. Electrorheological behavior of cellulose in silicon oil. The effect of filler morphology, Kovaleva, VV; Kuznetsov, NM; (...); Chvalun, SN, May 2024, CELLULOSE, 31 (7) , pp.4099-4113 10. A new strategy to improve the dielectric properties of cellulose nanocrystals (CNCs): Surface modification of small molecules, Luo, QG; Liu, YF; (...); Xu, XZ, Jan 15 2024, CARBOHYDRATE POLYMERS, 324	**19**	**15.83**

Nr crt.	Lucrarea citata	nr citari	Punctaj
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15	Controlled Trapping of Onion-Like Carbon (OLC) via Dielectrophoresis, Olariu, M; Arcire, A and Plonska-Brzezinska, ME, Jan 2017, JOURNAL OF ELECTRONIC MATERIALS, 46 (1) , pp.443-450 **<u>Citată în:</u>** 1. Copper-modified carbon nano-onions as electrode modifiers for the electroanalysis of the antiretroviral drug Efavirenz, Mokwebo, KV; Murphy, E; (...); Dempsey, E, Sep 1 2023, ELECTROCHIMICA ACTA, 461 2. Review of Dielectrophoretic Manipulation of Micro and Nanomaterials: Fundamentals, Recent Developments, and Challenges, Ghomian, T and Hihath, J, Jan 2023, IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, 70 (1) , pp.27-41	**9**	**15**

Nr crt.	Lucrarea citata	nr citari	Punctaj
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	Treatment of Polymeric Films Used for Printed Electronic Circuits Using Ambient Air DBD Non-Thermal Plasma, Astanei, D; Burlica, R; (...); Beniuga, O, Mar 2022, MATERIALS, 15 (5) **Citată în:** 1. Development and characterization of atmospheric pressure gliding Arc plasma jet, Chalise, R; Dhungana, S; (...); Khanal, R, Oct 1 2024, PHYSICA SCRIPTA, 99 (10) 2. Inkjet Printing Optimization: Toward Realization of High-Resolution Printed Electronics, Kamarudin, SF; Aziz, NHA; (...); Sulaiman, S, Jul 2024, ADVANCED MATERIALS TECHNOLOGIES, 9 (14) 3. Inkjet Printing on Hydrophobic Surface: Practical Implementation of Stacked Coin Strategy, Docherty, MJ; Naderi, P; (...); Amirfazli, A Jun 2024, ADVANCED ENGINEERING MATERIALS, 26 (11) 4. Atmospheric-pressure DBD plasma modifying photoemission, optical and electrical properties of polycarbonate films, Abd El-Latif, ST; Ahmed, KM; (...); Zaki, MF, Mar 2024, INORGANIC CHEMISTRY COMMUNICATIONS, 161 5. From Basics to Frontiers: A Comprehensive Review of Plasma-Modified and Plasma-Synthesized Polymer Films, Dufour, T, Sep 2023, POLYMERS, 15 (17)	**5**	**4.16**

Nr crt.	Lucrarea citata	nr citari	Punctaj
16	**Effect of selective distribution of MWCNTs on the solid-state rheological and dielectric properties of blends of PMMA and LDPE, Roman, C; García-Morales, M; (...); McNally, T, Jul 2020, JOURNAL OF MATERIALS SCIENCE, 55 (20) , pp.8526-8540** **<u>Citată în:</u>** 1. Volume exclusion effect and ambient temperature induced ultrahigh electromagnetic wave absorption properties of polylactic acid (PLA)/graphene nano-platelets (GNPs) composites, Wang, SS; Yang, WJ; (...); Gong, NN, May 20 2024, JOURNAL OF APPLIED POLYMER SCIENCE, 141 (20) 2. Enhanced energy storage properties of all-polymer dielectrics by cross-linking,Liu, LP; Yun, HC; (...); Zhang, ZC, Nov 2023, REACTIVE & FUNCTIONAL POLYMERS, 192 3. Fabrication of lightweight and biodegradable EMI shield films with selective distribution of 1D carbonaceous nanofiller into the co-continuous binary polymer matrix, Nath, K; Ghosh, SK; (...); Das, NC, Mar 2023, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 34 (8) 4. Effect of Zr-doped CaCu3Ti3.95Zr0.05O12 ceramic on the microstructure, dielectric properties, and electric field distribution of the LDPE composites, Gao, L; Zhang, JQ; (...); Wang, X, Jan 6 2023, E-POLYMERS, 23 (1) 5. The effect of tailoring morphology on rheology and dielectric properties of poly (lactic acid) /thermoplastic polyurethane/graphene oxide nanocomposites, Azadi, F; Khonakdar, HA; (...); Altstädt, V, Dec 2022, MATERIALS TODAY COMMUNICATIONS, 33 6. Broadband microwave absorbing materials for green electronics based on poly (lactic acid)/ethylene-vinyl acetate copolymer blends loaded with carbon nanotube, Pereira, ECL; Fernandes, ME; (...); Soares, BG, Jul 20 2022, JOURNAL OF APPLIED POLYMER SCIENCE, 139 (28) 7. A mini review on factors affecting network in thermally enhanced polymer composites: filler content, shape, size, and tailoring methods, He, XX; Ou, D; (...); Sun, JY, Mar 2022, ADVANCED COMPOSITES AND HYBRID MATERIALS, 5 (1) , pp.21-38 8. Computer modeling to forecast accurate of efficiency parameters of different size of graphene platelet, carbon, and boron nitride nanotubes: A molecular dynamics simulation, Farazin, A and Mohammadimehr, M, Feb 2021, COMPUTERS AND CONCRETE, 27 (2) , pp.111-130 9. Interfacial fluorine migration-induced low leakage conduction in PVA based high-k composites with V2C MXene-SWCNT switchboard-like ceramic via ab initio MD simulations, Deng, QH; Chen, BH; (...); Zhou, JQ, Jan 21 2021, JOURNAL OF MATERIALS CHEMISTRY C, 9 (3) , pp.1051-1061	**12**	**15**

Nr crt.	Lucrarea citata	nr citari	Punctaj
	10. MOLECULAR DYNAMICS SIMULATIONS OF THE MISCIBILITY AND GLASS TRANSITION TEMPERATURE OF POLYMETHYL METHACRYLATE/ACETYL TRIBUTYL CITRATE BINARY SYSTEMS, Li, X; Li, J; (...); Wang, BL, 2021, INTERNATIONAL JOURNAL OF ENERGETIC MATERIALS AND CHEMICAL PROPULSION, 20 (1) , pp.45-53 11. Electrical Double Percolation of Polybutadiene/Polyethylene Glycol Blends Loaded with Conducting Polymer Nanofibers, Morita, J; Goto, T; (...); Shimomura, T, Nov 2020, POLYMERS, 12 (11) 12. Multiwalled carbon nanotubes filled thermoplastic vulcanizate dielectric elastomer with excellent resilience properties via inhibiting MWCNT network formation, Ma, LF; Hu, JJ and Dou, R, Apr 5 2021, JOURNAL OF APPLIED POLYMER SCIENCE, 138 (13)		
	TOTAL 3.1	**195**	**240.64**

3.2 Citări în reviste BDI şi volumele conferinţelor BDI

Nr crt.	Lucrarea citata	Nr citari	Punctaj

1.	*Cetiner, Suat; **Olariu, Marius**; Sarac, A. Sezai, FABRICATION OF POLY(ACRYLONITRILE-CO-VINYL ACETATE)-POLY(N-METHYL PYRROLE) COMPOSITE NANOFIBERS, By: DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES Volume: 8 Issue: 2 Pages: 677-683 Published: APR-JUN 2013* **Citată în:** 1. Magdy, G., Harb, M.E., Elshaer, A.M., (...), Ebrahim, S., Soliman, M., Preparation of Electrolytic Quasi-Solid-State Nanofibers for Dye-Sensitized Solar Cells, 2019, Publisher:J O M Institute 2 Designing a novel nanocomposite for bone tissue engineering using electrospun conductive PBAT/polypyrrole as a scaffold to direct nanohydroxyapatite electrodeposition, By: de Castro, Jucara G.; Rodrigues, Bruno V. M.; Ricci, Ritchelli; et al., RSC ADVANCES Volume: 6 Issue: 39 Pages: 32615-32623 Published: 2016	2	2
2.	*Suat Cetiner, **M. Olariu**, Romeo Ciobanu, Hale Karakas, Fatma Kalaoglu and A. Sezai Sarac, Polypyrrole/polyacrylonitrile composite films: Dielectric, spectrophotometric and morphologic characterization, FIBERS AND POLYMERS, Volume: 11, Issue: 6, Pages: 843-850, Published: SEP 2010, ISSN: 1229-9197, DOI: 10.1007/s12221-010-0843-9, IF=1,022* **Citată în:** 1. Synthesis and characterization of polyvinyl alcohol/cationic polyurethane binder blend as solid polymer electrolyte Khutia, M., Joshi, G.M., Bhattacharya, S. 2015, Ionics, 21(11), pp. 3075-3086 2. Electrochemical hybrid bio-sensors for neurotransmitters analysis, Schreiner, C., Dimofte, G., Schreiner, T., 2013, 19th IMEKO TC4 Symposium - Measurements of Electrical Quantities 2013 and 17th International Workshop on ADC and DAC Modelling and Testing pp. 1-5 3. RF conductivity of biodegradable conductive polymers used for a new generation of partially/fully resorbable wireless implantable sensors Boutry, C.M., Chandrahalim, H., Hierold, C., 2012, Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 6170226, pp. 468-471	3	1.5
3	*C. Hamciuc, E. Hamciuc, I. Bacosca, **M. Olariu**, Thermal and electrical properties of some poly(ether-imide) thin films, Materiale Plastice, 47, 11-15, 2010, ISSN: 0025-5289, IF=0,5* **Citată în:** 1. Phosphine oxide based polyimides: Structure-property relationships, Open Access, Butnaru, I., Bruma, M., Gaan, S., 2017, RSC Advances, 7(80), pp. 50508-50518 2. Effect of thermal curing on the properties of thin films based on benzophenonetetracarboxylic dianhydride and 4,4'-diamino-3,3'-dimethyldiphenylmethane, By: Sava, Ion; Chisca, Stefan; Bruma, Maria; et al., JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 104 Issue: 3 Pages: 1135-1143 Published: JUN 2011	4	3

	3. Influence of Conformational Parameters on Physical Properties of Polyimides Containing Methylene Bridges, By: Chisca, Stefan; Ronova, Inga A.; Sava, Ion; et al., MATERIALE PLASTICE Volume: 48 Issue: 1 Pages: 38-44 Published: MAR 2011 4. Study of Some Aromatic Polyimides Containing Methylene Units, By: Sava, Ion; Chisca, Stefan; Bruma, Maria; et al., MATERIALE PLASTICE Volume: 47 Issue: 4 Pages: 481-485 Published: DEC 2010		
4	*Aradoaei S, Darie R, Constantinescu G, Olariu M, Ciobanu R., Modified lignin effectiveness as compatibilizer for PET/LDPE blends containing secondary materials, , JOURNAL OF NON-CRYSTALLINE SOLIDS, Volume: 356 Issue: 11-17 Pages: 768-771 Published: APR 1 2010, ISSN: 0022-3093, DOI: 10.1016/j.jnoncrysol.2009.11.046, IF=1,825* **Citată în:** 1. Principles on Development of Experimental Models of Nanostructured Adhesives, Ursan, George-Andrei; Ursan, Maria; La Rosa, Angela Daniela; et al., Conference: 10th International Conference and Expositions on Electrical and Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 18-19, 2018 2. Effect of lignin on morphology, biodegradability, mechanical and thermal properties of low linear density polyethylene/lignin biocomposites, By: Ghozali, M.; Triwulandari, E.; Haryono, A.; et al., Conference: International Conference and Exhibition on Innovation in Polymer Science and Technology (IPST) Location: Medan, INDONESIA Date: NOV 07-10, 2016 3. Comparison Study of Polyethylene and Polypropylene Addition on Asphalt With Lignin as Coupling Agent, Putra, W.N., Syahwalia, R., Hendrasetyawan, B.E., Giovanni, S.C., Chalid, M., 2017, Macromolecular Symposia, 371(1), pp. 140-143 4. Lignin as an Additive for Advanced Composites, By: Polat, Yusuf; Stojanovska, Elena; Negawo, Tolera A.; et al., GREEN BIOCOMPOSITES: MANUFACTURING AND PROPERTIES Book Series: Green Energy and Technology Pages: 71-89 Published: 2017 5. Handbook of Cellulosic Ethanol (Book), Open Access, Amarasekara, A.S., 2013, Handbook of Cellulosic Ethanol, pp. 1-582 6. Effect of six technical lignins on thermo-mechanical properties of novolac type phenolic resins, Martínez, J.D., Velásquez, J.A., 2013, Macromolecular Symposia, 333(1), pp. 197-205	6	3.6
5.	*Suat Cetiner, Hale Karakas, Romeo Ciobanu**, Marius Olariu**, N. Ugur Kaya, Cem Unsal, Fatma Kalaoglu, A. Sezai Sarac,, Polymerization of pyrrole derivatives on polyacrylonitrile matrix, FTIR-ATR and dielectric spectroscopic characterization of composite thin films, Source: SYNTHETIC METALS, Volume: 160, Issue: 11-12, Pages: 1189-1196, Published: JUN 2010, ISSN: 0379-6779, DOI: 10.1016/j.synthmet.2010.03.007, IF=2,526* **Citată în:**	2	0.75

	1. Influence of Monomer Concentration on the Morphologies and Electrochemical Properties of PEDOT, PANI, and PPy Prepared from Aqueous Solution, Open Access, Kulandaivalu, S., Zainal, Z., Sulaiman, Y., 2016, International Journal of Polymer Science, 2016,8518293 2. Conducting polymers. VI. Effect of doping with iodine on the dielectrical and electrical conduction properties of polyacrylonitrile, El-Ghamaz, N.A., Diab, M.A., Zoromba, M.S., El-Sonbati, A.Z., El-Shahat, O., 2013, Solid State Sciences, 24, pp. 140-146		
6.	*Hamciuc E, Hamciuc C, **Olariu M**, Thermal and Electrical Behavior of Polyimide/Silica Hybrid Thin Films, POLYMER ENGINEERING AND SCIENCE, Volume: 50, Issue: 3, Pages: 520-529, Published: MAR 2010, ISSN: 0032-3888, DOI: 10.1002/pen.21562 IF=1,719* **Citată în:** 1. Synthesis and characterization of hydrophobic, ultra-fine fibres based on an organic–inorganic nanocomposite containing a polyimide functionality, Open Access, Schramm, C., Rinderer, B., Tessadri, R., 2019, Polymers and Polymer Composites 2. Effects of biopolyimide molecular design on their silica hybrids thermo-mechanical, optical and electrical properties, Open Access, Dwivedi, S., Sakamoto, S., Kato, S., Mitsumata, T., Kaneko, T., 2018, RSC Advances, 8(25), pp. 14009-14016	2	2
7.	*Ciobanu, R., Schreiner, C., **Olariu, M**., Evaluation via PEA measurements of paper-oil insulation submitted to gamma radiation, Proceedings of 2008 International Conference on Condition Monitoring and Diagnosis, CMD 2008, Article number 4580500, Pages 1187-1190* **Citată în:** 1. Calibration of pulsed electroacoustic method considering electrode-dielectric interface status and porosity, Huang, M., Zhou, Y., Chen, W., (...), Jin, F., Huang, J., 2014, Japanese Journal of Applied Physics, 53(10),106601	1	0.33
8	*Scarlatache, V.-A., Olariu, M., Ursache, S., Ciobanu, R.C., Pasquale, M.b Magnetic and dielectric losses of a nanocomposites polymer matrix reinforced with ferromagnetic powders, 2012, Article number 6463940, Pages 125-128, 2012 7th International Conference and Exposition on Electrical and Power Engineering, EPE 2012* **Citată în:** 1. Magneto-Dielectric Behaviour of M-Type Hexaferrite/Polymer Nanocomposites By: Sanida, Aikaterini; Stavropoulos, Sotirios; Speliotis, Thanassis; et al. MATERIALS Volume: 11 Issue: 12 Article Number: 2551 Published: DEC 2018 2. A comparative thermomechanical study of ferrite/polymer nanocomposites By: Sanida, A.; Stavropoulos, S. G.; Psarras, G. C.	3	1.8

	Conference: 1st International Conference of the Greek-Society-of-Experimental-Mechanics-of-Materials (GSEMM) Location: Athens, GREECE Date: MAY 10-12, 2018 Sponsor(s): Greek Soc Experimental Mech Mat; ESIS 1ST INTERNATIONAL CONFERENCE OF THE GREEK SOCIETY OF EXPERIMENTAL MECHANICS OF MATERIALS (GSEMM) Book Series: Procedia Structural Integrity Volume: 10 Pages: 257-263 Published: 2018 3. Magnetic nanoparticles - polymer matrix nanodielectrics: Manufacturing, characterization and functionality By: Sanida, A.; Stavropoulos, S. G.; Speliotis, Th.; et al. Conference: 11th Panhellenic Scientific Conference on Chemical Engineering (PSCCE) Location: Thessaloniki, GREECE Date: MAY 25-27, 2017		
	Total 3.2	23	14.98

3.4 Membru în colectivele de redacţie sau comitete ştiinţifice ale revistelor şi manifestărilor ştiinţifice, organizator de manifestări ştiinţifice, recenzor pentru reviste şi manifestări ştiinţifice naţionale şi internaţionale (punctajul se acordă pentru fiecare revistă, manifestare ştiinţifică şi recenzie)

Nr. Crt	Numele revistei	Tip revista	An recenziei	Punctaj
1	Journal of Electrostatics	WOS	2014	10
2	PCM2015	BDI	2014	6
3	EPE2014	BDI	2014	6
4	EPE2014	BDI	2014	6
5	Advanced Journal of Physical Sciences	No	2013	3
6	Bioresources (#6875)	WOS	2015	10
7	Polymer Composites (PC-15-1145)	WOS	2015	10
8	Polymer composites (PC-15-1145.R1)	WOS	2015	10
9	Polymer composites (PC-15-2082)	WOS	2015	10
10	Polymer composites (PC-16-0026)	WOS	2016	10
11	Polymer composites (PC-16-0751)	WOS	2016	10
12	Sensors (sensors-442033)	WOS	2019	10
13	SN Applied Sciences (SNAS-D-18-01166)	WOS	2019	10
14	J. Talanta TAL-D-21-04191	WOS	2021	10
15	MDPI materials-1425320	WOS	2021	10
16	J of electronic Materials -	WOS	2021	10
17	High Performance Polymers	WOS	2021	10

18	Nanoscale	WOS	2021	10
19	Frontiers in Materials	WOS	2024	10
20	Small Methods	WOS	2024	10
21	MDPI micromachines	WOS	2024	10
22	MDPI nanomaterials	WOS	2024	10
23	MDPI materials	WOS	2024	10
	TOTAL 3.4			**211**

3.5 Referent în comisii de doctorat
Referent Stefan Macovei – 5 puncte (2019)
Referent Contofan Iulian Cosmin (2020)
Referent Ina Turcan – 5 puncte (2021)
Referent Thomas Schreiner – 5 puncte (2024)

TOTAL 3.5 – 20 puncte

3.6 Premii

Nr. crt	Denumire premiu	Acordat de:	Anul acordării	Punctaj
1	Premiu CNCSIS in 2008 pentru articol: FLUORINATED BLOCK COPOLYMERS CONTAINING IMIDE AND 1,3,4-OXADIAZOLE RING, REVISTA DE MATERIALE PLASTICE 45 (4): 356-361 DEC 20	MECTS CNCS	2008	15
2	Premiu CNCSIS in 2010 pentru articol: MODIFIED LIGNIN EFFECTIVENESS AS COMPATIBILIZER FOR PET/LDPE BLENDS CONTAINING SECONDARY MATERIALS, JOURNAL OF NONCRYSTALLINE SOLIDS, 356 (11	MECTS CNCS	2010	15
3	Premiu CNCSIS in 2010 pentru articol: THERMAL AND ELECTRICAL BEHAVIOR OF POLYIMIDE/SILICA HYBRID THIN FILM, POLYMER ENGINEERING AND SCIENCE, 50, 520	MECTS CNCS	2010	15

4	CNCSIS in 2010 pentru articol: THERMAL AND ELECTRICAL BEHAVIOUR OF SOME HYBRID POLYIMIDE FILMS CONTAINING BARIUM AND TITANIUM OXIDES, POLYMER INTERNATIONAL, 59, 668	MECTS CNCS	2010	15
5	CNCSIS in 2013 pentru articol: FABRICATION OF POLY(ACRYLONITRILE-CO-VINYL ACETATE)-POLY(N-METHYL PYRROLE) COMPOSITE NANOFIBERS, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES, Volume: 8 Issue: 2 Pages: 677-683, Published: APR-JUN 2013	MECTS CNCS	2013	15
6	Premiu UEFISCDI pt. Treatment of polymeric films used for printed electronic circuits using ambient air DBD non-thermal plasma, D Astanei, R Burlica, DE Cretu, M Olariu, I Stoica, O Beniuga, Materials 15 (5), 1919 (PN-IV-P2-2.3-PRECISI-2023-68415)	MECTS CNCS	2023	15
7	3.18.2. Premiu UEFISCDI pt. HT-29 Colon Cancer Cell Electromanipulation and Assessment Based on Their Electrical Properties, MA Olariu, C Tucureanu, TA Filip, I Caras, A Salageanu, V Vasile, Micromachines 13 (11), 1833 (PN-IV-P2-2.3-PRECISI-2023-75141)	MECTS CNCS	2023	15
8	Turcan I, Caras I, Schreiner TG, Tucureanu C, Salageanu A, Vasile V, Avram M, Tincu B, Olariu MA. Dielectrophoretic and Electrical Impedance Differentiation of Cancerous Cells Based on Biophysical Phenotype. Biosensors (Basel). 2021 Oct 17;11(10):401. doi: 10.3390/bios11100401. PMID: 34677357; PMCID: PMC8533712.	MECTS CNCS	2021	15
9	Hamciuc, C.; Asandulesa, M.; Hamciuc, E.; Roman, T.; Olariu, M.A.; Pui, A. Novel Polyimide/Copper-Nickel Ferrite Composites with Tunable Magnetic and Dielectric Properties. Polymers 2021, 13, 1646. https://doi.org/10.3390/polym13101646	MECTS CNCS	2021	15
	TOTAL 3.6			**135**

3.7 Membru în academii, organizaţii, asociaţii profesionale de prestigiu, naţionale şi internaţionale, apartenenţă la organizaţii din domeniul educaţiei şi cercetării

3.7.4 Asociaţii profesionale

EIT manufacturing

5 puncte

3.7.5 Consilii şi organizaţii în domeniul educaţiei şi cercetării

TOTAL 3.7 –

Tabel centralizator privind activitatea candidatului şi punctajele realizate

Nr. crt.	Criteriu	Condiţii minimale	Realizări candidat	Punctaje candidat
1	1.1.1 Cărţi cu ISBN / capitole ca autor didactice sau monografii, pentru profesor / CS I: minimum 4	4	5 (internationale 3 (2 ca prim autor), nationale 2 (1 prim autor)	114,91
	1.2.1 Suport de curs inclusiv electronic , pentru profesor / CS I: minimum 2	2	2 (2 ca unic autor)	21.70
	1.2.2 Îndrumare de laborator / aplicaţii, pentru profesor / CSI: minimum 2	2	2 (1 unic autor, 1 co autor)	8.10
	1.3 Coordonare de programe de studii, organizare si formare profesionala		1	10
Total puncte activitate didactică şi profesională (A1)				***154.71***
2	2.1 Articole in extenso în reviste cotate WSO Thomson Reuters, în volume proceedings indexate I WSO Thomson Reuters și brevete de invenţie WOS_Derwent, Minimum 10, pentru profesor / CS I: minimum 10 articole din care 4 ca prim autor și minimum 4 în reviste	10	30 (9 prim autor), toate articolele in reviste	645.91
	2.2 Articole în reviste şi volumele unor manifestări ştiinţifice indexate în alte baze de date internaţionale(BDI), Minimum 20, pentru profesor / CS I din care 5 în reviste	20	23 (6 in reviste)	123,89
	2.3. Granturi / proiecte câştigate prin competiţie	Min. 2 ca director	Director – 8 (3 internationale, 5 nationale) Membru – 23	401.48
Total puncte activitate de cercetare (A2)				***1172.28***
3	3.1. Citări în revistele WOS şi volumele conferinţelor WOS(fără autocitari)	Minimum 10	195	240.64
	3.2 Citări în revistele BDI și volumele conferințelor BDI (fără autocitări)	Minimum 20	23	14.98
	3.4 Membru în colectivele de redacţie sau comitete ştiinţifice ale revistelor şi manifestărilor ştiinţifice, organizator de manifestări ştiinţifice, recenzor pentru reviste şi manifestări ştiinţifice naţionale şi internaţionale (punctajul se acordă pentru fiecare revistă, manifestare ştiinţifică şi recenzie)	-	ISI – 19 BDI – 3 Altele - 1	211
	3.5 Referent în comisii de doctorat		4	20

Nr. crt.	Criteriu	Condiţii minimale	Realizări candidat	Punctaje candidat
	3.6 Premii	-	9 CNCSIS	135
	3.7. Membru în academii, organizaţii, asociaţii profesionale de prestigiu, naţionale şi internaţionale	-	Internaţionale – 1 Naţionale – 0	5
Total puncte recunoaşterea impactului activităţii, inclusiv criterii opţionale (A3)				**626.62**
TOTAL				**1952.61**

Semnatura