

INFORMAȚII PERSONALE

 Bucuresti, Romania



LOCUL DE MUNCA PENTRU
CARE SE CANDIDEAZĂ
POZIȚIA
LOCUL DE MUNCĂ DORIT
STUDIILE PENTRU CARE SE
CANDIDEAZĂ
PROFILUL PERSONAL

Cadru didactic universitar

EXPERIENȚA PROFESIONALĂ

Perioadă	Din 1991-prezent
Functia sau postul ocupat	Profesor (2005-prezent); conferentiar (2001-2005); sef de lucrari (1998-2001); asistent (1991-1998)
Activitati si responsabilitati principale	Activitati didactice : - Activitati de curs, seminar și laborator la disciplinele: Dispozitive si circuite electronice; Circuite electronice fundamentale, Dispozitive electronice, Dispozitive si circuite de microunde, Microsisteme electromecanice pentru aplicatii in radio-frecventa, Electronic circuits, Electronic devices and circuits - Conducere proiecte de diploma, licenta si dizertatie; - Participare în comisii de diploma, licenta si dizertatie; - Participare in comisii de doctorat - Coordonare program de master Micro si Nanoelectronica Activitati stiintifice : - Contracte de cercetare finanțate din Programele Naționale de Cercetare – Dezvoltare, institute si centre de cercetare si din fonduri europene în domeniile: echipamente pentru telecomunicatii, microsisteme pentru microunde, componente pe semiconductori compusi A3-B5, nanoelectronica, senzori, educatie, - Îndrumare stiintifica pentru proiecte de diploma, licenta si dizertatie; Participare în programe internaționale TEMPUS pentru formare profesională.
Numele si adresa angajatorului	Universitatea POLITEHNICA din Bucuresti, Splaiul Independenței nr. 313, Sector 6, 061071, București, România
Tipul activității sau sectorul de activitate	Invățământ tehnic superior si cercetare
Perioadă	1988-1991
Functia sau postul ocupat	Inginer cercetare
Activitati si responsabilitati principale	Cercetare si ore didactice de laborator si seminar
Numele si adresa angajatorului	Universitatea POLITEHNICA din Bucuresti, Splaiul Independenței nr. 313, Sector 6, 061071, București, România
Tipul activității sau sectorul de activitate	Invățământ tehnic superior si cercetare
Perioadă	1985-1988
Functia sau postul ocupat	Inginer
Activitati si responsabilitati principale	Cercetare

Numele si adresa angajatorului	Intreprinderea pentru Intretinerea si Repararea Utilajului de Calcul (IIRUC) Bucuresti
Tipul activității sau sectorul de activitate	Service tehnica de calcul si cercetare
Perioadă	1998-2000
Functia sau postul ocupat	conferentiar
Activitati si responsabilitati principale	Activitati didactice de curs, seminar si laborator pentru disciplinele: Dispozitive si circuite electronice, Componente si circuite pasive
Numele si adresa angajatorului	Universitatea Valahia Targoviste, Romania
Tipul activității sau sectorul de activitate	Invatamant tehnic superior si cercetare
Perioadă	Din 2003- prezent
Functia sau postul ocupat	CS I (2014-prezent); CS II (2003-2014)
Activitati si responsabilitati principale	Activitati de cercetare: - modelare analitica si numerica, simulare, proiectare, caracterizare experimentală, dezvoltare tehnologica - dispozitive, circuite si microsisteme de microunde microprelucrate pentru microunde si unde milimetrice si aplicatii - nanoelectronica bazata pe nanotuburi de carbon si grafena uni-strat si aplicatii dispozitive FBAR si SAW cu frecvente de functionare de pana la 10 GHz si aplicatii - director/responsabil pentru proiecte internationale si nationale Autor si co-autor a peste 120 articole si comunicari indexate ISI
Numele si adresa angajatorului	INCD pentru Microtehnologie – IMT Bucuresti, Erou Iancu Nicolae , nr.126A, 077190 , Bucuresti, Romania
Tipul activității sau sectorul de activitate	Cercetare - dezvoltare
EDUCATIE SI FORMARE PROFESIONALA	

Perioada	1991-1997
Calificare / diplomă obținută	Doctor în științe inginerești
Disciplinele principale studiate / competente profesionale dobândite	Dispozitive si circuite electronice
Numele si tipul institutiei de învățământ / furnizorului de formare	Universitatea POLITEHNICA din Bucuresti, Splaiul Independenței nr. 313, Sector 6, București, România
Nivel in clasificarea nationala sau internationala	ISCED 6
Perioada	1980-1985
Calificare / diplomă obținută	Inginer
Disciplinele principale studiate / competente profesionale dobândite	Discipline fundamentale: matematică, fizică, bazele electrotehnicii, materiale pentru electronica Discipline de specialitate: Dispozitive si circuite electronice, Semnale circuite si sisteme, Tehnica transmisiei informatiei, Sisteme de telecomunicatii , Circuite integrate, Microunde, Tehnologie microelectronica
Numele si tipul institutiei de învățământ / furnizorului de formare	Universitatea POLITEHNICA din Bucuresti,; Splaiul Independenței nr. 313, Sector 6, București, România
Nivel in clasificarea nationala sau internationala	ISCED 5

APTITUDINI SI COMPETENTE PERSONALE

Limba maternă

Limbi straine cunoscute

Autoevaluare

Nivel european (*)

Engleză

Franceză

Română

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Discurs			
C1	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat
B1	Utilizator independent	B1	Utilizator independent	B1	Utilizator independent	A1	Utilizator elementar	A1	Utilizator elementar

(*) Common European Framework of Reference for Languages

Competente si aptitudini organizatorice

Datorita experientei didactice si de cercetare au rezultat urmatoarele competente:

- Conducerea si coordonarea echipelor mici si medii (pana la 24 persoane), bun organizator, abilitatea de mobilizare a colectivului, abilitatea de management a proiectelor de cercetare nationale si internationale, organizarea de manifestari nationale si internationale
- Capacitate de sinteza, abilitate de lucru sub presiunea termenelor limita
- Abilitatea de a coordona si trata in paralel diferite activitati didactice si de cercetare

Competente si abilitati sociale

Spirit de echipa, abilitate de comunicare in fata unei audiente largi, abilitate de lucru in medii multiculturale obtinuta prin activitatea desfasurata in cadrul proiectelor internationale

Competente si aptitudini tehnice

Capacitate de a utiliza echipamente de măsură in domeniul RF si microunde; modelare analitica, modelare numerica a nano- si microstructurilor la inalta frecventa; proiectare liniara si neliniara pentru dispozitive micro-nano-electronice, caracterizare experimentală si extragere de parametrii de model pana la frecvente de 110 GHz, dezvoltare de montaje experimentale orientate pe dispozitiv si circuit; utilizare si configurare echipamente Semiconductor Characterization System

Competente si aptitudini de utilizare a calculatorului

SPICE si versiuni ulterioare, CST Microwave Studio, AWR Microwave Studio, Ansoft HFSS, COMSOL. Zeland IE3D, Microsoft office

Alte competente si aptitudini

Permis de conducere categoria B
Editare de articole si carti

Informații suplimentare

- **Membru comisia CNATDCU Electronica si telecomunicatii: 2010-2012, 2016-2020, 2020-2024**
- Membru al asociațiilor profesionale: IEEE
- Membru in comitetul tehnic de program al conferintei internationale IEEE International Semiconductor Conference (CAS) incepand cu anul 2003
- Membru in comitetul tehnic de program al conferintei internationale ESSDERC 2013
- Membru in comitetul tehnic de program al conferintei internationale MEMSWAVE 2005
- Editor asociat al revistei Romanian Journal of Information Science and Technology

Anexe

Lista de lucrari

LISTA

lucrărilor științifice în domeniul disciplinelor din postul didactic

I. TEZA (E) DE DOCTORAT (T)

Dan Neculoiu, *“Modelarea neliniara a circuitelor integrate de microunde”*, U.P.B., 1997, coordonator Dan Dascalu

II. CĂRȚI PUBLICATE (C)

Ca – Cărți / cursuri (manuale) pentru uzul studenților, publicate în edituri recunoscute.

D.Neculoiu, Al.Muller, "Dispozitive si circuite de microunde- Aplicatii", Editura Printech (134 pagini), ISBN 973-652-287-3, 2001

Cb -

1. **Dan Neculoiu**, *“Structuri avansate de microunde realizate prin microprelucrare”*, Editura Printech, (138 pagini), ISBN 973-718-229-4, 2005

2. Alina-Cristina BUNEA, **Dan NECULOIU**, „Tehnologii moderne pentru antenele de unde milimetrice”, 129 pp, București 2024, Ed. MATRIXROM, ISBN: 978-606-25-0892-0

Cc - Cărți publicate în alte edituri, cu ISBN.

III. ALTE MATERIALE PUBLICATE (I,D)

I - Culegeri și îndrumare publicate (separate în edituri cu ISBN și în tipografii locale/de instituții sau de uz intern).

D - Alte lucrări publicate: capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc.\

1. D. Neculoiu, A.C. Bunea, “Millimeter Wave Components and Circuits Developed by IMT Bucharest” in “Advances in micro- and nanoelectronics”, Series in “Micro and Nanoengineering”, pp. 229-256, Romanian Academy Printing House, Bucharest, 2018, ISBN: 978-973-27-2982-3 (editors: S. Cristoloveanu, A. Wild, D. Dascălu)
2. A. C. Bunea, D. Neculoiu, A. Muller, Chapter: „Membrane Supported Millimeter Wave Bandstop Resonators” in „RF MEMS Technologies: Recent Developments”, pp. 139-146, Romanian Academy Printing House, Bucharest, 2013, ISBN: 978-973-27-2311-1
3. A. STEFANESCU, D. NECULOIU, A.C. BUNEA, Chapter: „Design and Modeling of Membrane Supported FBAR Filter” in „Novel RF MEMS Technologies”, pp. 291-300, Romanian Academy Printing Press, Bucharest, 2012, ISBN: 978-973-27-281-0
4. A. Müller, D. Neculoiu, A. Stavrinidis, T. Kostopoulos, A. Dinescu, A. Cismaru, D. Vasilache, G. Deligeorgis, C.Buiculescu, A.A. Müller, I.Petrini, D. Dascalu, G. Konstantinidis, Chapter: "Recent progress in acoustic devices on GaN/Si", in "Microwave Circuits and Devices Based on MEMS Technologies", Series in Micro and Nanoengineering, 18, pp.359-365, Publishing House of the Romanian Academy, Bucharest, 2011, ISBN: 978-973-27-2068-4
5. D.Neculoiu, G.Konstantinidis, T.Vaha-Heikkila, M.Kantenen, A.Muller, A.Stavinidris, D.Vasilache, Z.Chatzopoulos, M.Dragoman, D.Dascalu, Chapter: "60 GHz Receiver with Double Folded Slot Antennas Fabricated on Thin GaAs Membrane", in “Microwave and millimeter wave MEMS”, Series in Micro and Nanoengineering, 17, pp.45-51, Publishing House of the Romanian Academy, Bucharest, 2010, ISBN: 978-973-27-1916-9
6. D. Neculoiu, D. Vasilache, A. Stefanescu, A. Muller, D. Dascalu, T. Vaha-Heikkila, P. Pursula, I. Marttila, G. Stavrinidis, G. Konstantinidis, A. Stavrinidis, Z. Chatzopoulos, “200GHz receiver with double folded slot antennas fabricated on thin GaAs membrane”, in Microwave Circuits and Devices Based on MEMS Technologies, Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 18, 2011, pp. 317-324.
7. A. Müller, D. Neculoiu, A. Stavrinidis, T. Kostopoulos, A. Dinescu, A. Cismaru, D. Vasilache, G. Deligeorgis, C.Buiculescu, A.A. Müller, I.Petrini, D. Dascalu, G. Konstantinidis, “Recent progress in acoustic devices on GaN/Si”, in Microwave Circuits and Devices Based on MEMS Technologies, Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 18, 2011, pp. 359-365.
8. D.Neculoiu, G.Konstantinidis, T.Vaha-Heikkila, M.Kantenen, A.Muller, A.Stavinidris, D.Vasilache,

- Z.Chatzopoulos, A.Muller, M.Dragoman, D.Dascalu, "60 GHz Receiver with Double Folded Slot Antennas Fabricated on Thin GaAs Membrane", in "Microwave and millimeter wave MEMS", Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 17, 2010, pp. 45-51.
9. A.Muller, D.Neculoiu, G.Konstantinidis, D.Vasilache, A.Dinescu, A.Stavriniadis, G.Deligiorgis, M.Danila, K.Tzagaraki, M.Dragoman, A.Cismaru, C.Buiculescu, I.Petrini, A.A.Muller, D.Dascalu, "Acoustic Devices for GHz Applications Based on Micromachining and Nanoprocessing of GaN/Silicon", in "Microwave and millimeter wave MEMS". Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 17, 2010, pp. 96-103.
 10. D.Neculoiu, A.Muller, G.Konstantinidis, C.Morosanu, D.Vasilache, A.Kostopoulos, A.Stavriniadis, "Modeling and fabrication of FBARs based on nitrides micromachined membranes", in "New developments in micro electro mechanical systems for radio frequency and millimeter wave applications", Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 15, 2009, pp. 249-254.
 11. D.Neculoiu, G.Konstantinidis, T.Vaha-Heikkila, A.Muller, D.Vasilache, A.Stavriniadis, L.Bary, M.DRAGOMAN, I.Petrini, C.Buiculescu, Z.Hazoupulos, N.Kornilios, P.Pursula, R.Plana, D.Dascalu, "GaAs membrane-supported 60GHz receiver with Yagi-Uda antenna", in "Recent Developments in MEMS Technologies", Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 12, 2008, pp. 33-40.
 12. A.Takacs, D.Neculoiu, D.Vasilache, A.Muller, P.Pons, L.Bary, P.Calmon, R.Plana, H.Aubert, "Tunable bandstop MEMS filters for Ka and V-band applications", in "Recent Developments in MEMS Technologies", Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 12, 2008, pp. 229-236.
 13. A.A.Muller, D.Neculoiu, D.Vasilache, A.Cismaru, P.Pons, R.Plana, L.Bary, A.Muller, "Novell micromachined lumped element bandpass filter with an additional zero in the bandstop for WLAN 5200 applications", in "Recent Developments in MEMS Technologies", Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 12, 2008, pp. 237-244.
 14. A.Stavriniadis, A.Muller, D.Neculoiu, D.Vasilache, M.Dragoman, I.Petrini, G.Konstantinidis, Z.Chatzopoulos, L.Bary, R.Plana, "GaAs membrane-supported Yagi-Uda antenna 45 GHz receiver", in "Emerging technologies for RF and millimetre waves circuits", Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 10, 2007, pp. 26-33.
 15. D.Neculoiu, A.Muller, D.Vasilache, C. Buiculescu, A.Takacs, F.Giacomozzi, "Compact lumped elements micromachined band-pass filters with discrete switching for 1.8/5.2GHz applications", in "Emerging technologies for RF and millimetre waves circuits", Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 10, 2007, pp. 65-72.
 16. D.Neculoiu, A.Muller, D.Vasilache, A.Kostopoulos, A.Adikimenakis, G.Konstantinidis, G.Georgakilas, K.Mutamba, C.Sydlo, "New developments of GaN membrane based FBAR structures", in "Emerging technologies for RF and millimetre waves circuits", Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 10, 2007, pp. 160-165.
 17. D Neculoiu, G Konstantinidis, K Mutamba, A Takacs, D Vasilache, C Sydlo, T Kostopoulos, A Stavriniadis, A Müller, "Electromagnetic modelling of GaN FBAR structures", in MEMS TECHNOLOGIES FOR MILLIMETER WAVE DEVICES AND CIRCUITS, Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 8, 2006, pp. 83-88.
 18. A Takacs, D Vasilache, C Tibeica, D Neculoiu, "A new topology of RF MEMS shunt switch for reconfigurable systems applications", in MEMS TECHNOLOGIES FOR MILLIMETER WAVE DEVICES AND CIRCUITS, Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 8, 2006, pp. 107-113.
 19. F Giacomozzi, B Margesin, I Petrini, D Vasilache, D Neculoiu, C Buiculescu, A Müller, G Konstantinidis, T Vaha-Heikkila, T Kostopoulos, Y Psychias, "Surface and bulk micromachining techniques for lumped components filters manufacturing", in MEMS TECHNOLOGIES FOR MILLIMETER WAVE DEVICES AND CIRCUITS, Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 8, 2006, pp. 210-215.
 20. G. Konstantinidis, A.Müller, Z Hazopulos, D Neculoiu, A. Kostopoulos, A. Georgakilas, A. Adikimenakis, D. Vasilache, A Pantazis, M Lagadas, "Design and technology for III-V (arsenides, nitrides) membrane supported Yagi-Uda antennae for 45 and 60GHz", Advanced MEMS for RF and Millimeter Wave Communications, Series in Micro and Nanoengineering, Publishing House of the Romanian Academy Press, Bucharest, 7, 2005, pp 87-98.
 21. D. Neculoiu, G.Bartolucci, P.Pons, L. Bary, D. Vasilache, G. Konstantinidis, A. Muller and R. Plana, "Membrane-supported coupled-line filters for the 45 GHz frequency band", in MEMS TECHNOLOGIES FOR MILLIMETER WAVE DEVICES AND CIRCUITS, Series in Micro and

- Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 5, 2004, pp. 24-30.
22. M. Saadaoui, A. Muller, P. Pons, L. Bary, D. Neculoiu, F. Giacomozzi, D. Dubuc, K. Grenier, L. Rabbia, D. Vasilache, R. Plana, "Fabrication of silicon based micromachined antennas for millimeter-wave applications", in MEMS TECHNOLOGIES FOR MILLIMETER WAVE DEVICES AND CIRCUITS, Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 5, 2004, pp. 43-49.
 23. Tibeica, V. Moagar-Poladian, D. Vasilache, F. Vladoianu, D. Neculoiu, I. Song, "Design modeling and mechanical behavior simulation of an electrostatically actuated RF switch", in MEMS TECHNOLOGIES FOR MILLIMETER WAVE DEVICES AND CIRCUITS, Series in Micro and Nanoengineering, Publishing House of the Romanian Academy, Bucharest, 5, 2004, pp. 169-174.
 24. A. Muller, D. Neculoiu, G. Konstantinidis, T. Vaha Heikkila, Chapter: „Microwave and Millimetre Wave Devices based on Micromachining of III-V Semiconductors” in „Advanced materials and technologies for micro/nano-devices, sensors and actuators”, pp. 75-88, Springer 2010, Editori E. Gusev, E. Garfunkel, A. Dideikin ISBN 978-90-481-3806-7, ISSN 1874-6500
 25. A. Muller, D. Neculoiu, G. Konstantinidis, R. Plana "Emerging Wireless technologies: Circuits, Systems, and Devices", Chapter 22 "Membrane-supported Millimeter Wave Circuit Based on Silicon and GaAs Micromachining" pp.629-654, CRC Press 2007, Taylor & Francis Group, edited by Krzysztof Iniewski, ISBN-13: 978-0-8493-7996-3

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)

Ris - Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta).

1. A. C. Bunea, D. Neculoiu, A. Stavrinidis, G. Stavrinidis, A. Kostopoulos, Z. Chatzopoulos, G. Konstantinidis, "Monolithic Integrated Antenna and Schottky Diode Multiplier for Free Space Millimeter-Wave Power Generation," in IEEE Microwave and Wireless Components Letters, vol. 30, no. 1, pp. 74-77, Jan. 2020 (doi: 10.1109/LMWC.2019.2954208; WOS:000508432100020)
2. Alina-Cristina BUNEA, Ovidiu George PROFIRESCU, Dan NECULOIU, "Passive Radio Frequency Identification Tag with Frequency Doubler and Energy Harvesting", in Romanian Journal of Information Science and Technology (ROMJIST), vol. 27, no. 2, pp. 172-182, 2024, <https://doi.org/10.59277/ROMJIST.2024.2.04>; WOS:001296922000005 A. C. Bunea, D. Neculoiu, A. Stavrinidis, G. Stavrinidis, A. Kostopoulos and G. Konstantinidis, "Monolithic Integrated Schottky Diode Multiplier and Rectenna for Wireless Communication Link in the W Band", in IEEE Access, vol. 10, pp. 107386-107394, 2022, doi: 10.1109/ACCESS.2022.3212772 (WOS: 000868716500001).
3. D. Neculoiu, A. C. Bunea, O.G. Profirescu, "Compact Implementation of an RFID Tag with Electromagnetic Wave Polarization Diversity", in Romanian Journal of Information Science and Technology, ROMJIST, vol. 25, no. 2, pp. 170-178, 2022 (WOS: 000823109400005; IF=3.5, Q2 in 2022)
4. A.C. Bunea, D. Neculoiu, A. Avram, M. Iovea, "Wideband Sub-terahertz Coplanar Waveguide-Fed Spiral Antenna", in Romanian Journal of Information Science and Technology, Volume 23, Number 2, 2020, pp. 140–156 (WOS:000532321500003)
5. Alina-Cristina Bunea, Dan Neculoiu, Adruian Dinescu, "Packaging approaches for GaN/Si SAW Band Pass Filters with Operating Frequencies above 5 GHz", ROMANIAN JOURNAL OF INFORMATION SCIENCE AND TECHNOLOGY Volume: 22 Issue: 2 Pages: 111-123 Published: 2019 IF 0.661 WOS:000472166600002
6. D. Neculoiu, A.C. Bunea, A. M. Dinescu and L. A. Farhat, Band Pass Filters Based on GaN/Si Lumped-Element SAW Resonators Operating at Frequencies Above 5 GHz, in IEEE Access, vol. 6, pp. 47587-47599, 2018. (doi: 10.1109/ACCESS.2018.2867456) (WOS: 000445510400001) FI= 3.557 Red Zone
7. Neculoiu, D., Müller, A., Deligeorgis, G., Dinescu, A., Stavrinidis, A., Vasilache, D., Cismaru, A.M., Stan, G.E., Konstantinidis, G., "AlN on silicon based surface acoustic wave resonators operating at 5GHz", (2009) Electronics Letters, 45 (23), pp. 1196-1197.
8. Neculoiu, D., Bartolucci, G., Pons, P., Bary, L., Vasilache, D., Muller, A., Plana, R., "Compact membrane-supported bandpass filter for millimetre-wave applications", (2004) Electronics Letters, 40 (3), pp. 180-182.
9. Neculoiu, D., Pons, P., Saadaoui, M., Bary, L., Vasilache, D., Grenier, K., Dubuc, D., Muller, A.,

Plana, R.

10. "Membrane supported Yagi-Uda antennae for millimetre-wave applications", (2004) IEE Proceedings: Microwaves, Antennas and Propagation, 151 (4), pp. 311-314.(ISSN:1751-8725)
11. Avram, A., Bunea, A.C., Obreja, C., Avram, M., Bită, B., Parvulescu, C., Popescu, M., Neculoiu, D., "Fabrication of thin dielectric membranes for microwave applications", Digest Journal of Nanomaterials and Biostructures, Volume 9, Issue 2, 2014, Pages 475-481, ISSN: 1842-3582
12. Dragoman, M., Konstantinidis, G., Tsagaraki, K., Kostopoulos, T., Dragoman, D., Neculoiu, D., "Graphene-like metal-on-silicon field-effect transistor", Nanotechnology, Volume 23, Issue 30, 3 August 2012, Article number 305201, ISSN: 0957-4484
13. Dragoman, M., Neculoiu, D., Cismaru, A., Deligeorgis, G., Konstantinidis, G., Dragoman, D., "Graphene radio: Detecting radiowaves with a single atom sheet", Applied Physics Letters, Volume 101, Issue 3, 16 July 2012, Article number 033109
14. Müller, A., Konstantinidis, G., Androulidaki, M., Dinescu, A., Stefanescu, A., Cismaru, A., Neculoiu, D., Pavelescu, E., Stavriniadis, A., "Front and backside-illuminated GaN/Si based metal-semiconductor-metal ultraviolet photodetectors manufactured using micromachining and nano-lithographic technologies", Thin Solid Films, Volume 520, Issue 6, 1 January 2012, Pages 2158-2161, ISSN: 0040-6090"
15. Muller, A.A., Neculoiu, D., Cismaru, A., Pons, P., Plana, R., Dascalu, D., Muller, A. , "Novel micromachined lumped band pass filter for 5.2 GHz WLAN applications", AEU - International Journal of Electronics and Communications, Volume 65, Issue 12, December 2011, Pages 1050-1053, ISSN: 1434-8411
16. Ștefănescu, A., Neculoiu, D., Müller, A., Dinescu, A., Konstantinidis, G., Stavriniadis, A. , "Analysis of GaN based SAW resonators including FEM modeling", Romanian Journal of Information Science and Technology, Volume 14, Issue 4, 2011, Pages 334-345
17. Bunea, A.-C. , Neculoiu, D. , Müller, A. , "Analytic and electromagnetic investigation of millimeter wave membrane supported CPWs processed on high resistivity silicon", Romanian Journal of Information Science and Technology, Volume 14, Issue 3, 2011, Pages 269-283
18. Cismaru, A., Voicu, M., Radoi, A., Dinescu, A., Neculoiu, D., Dragoman, M., "EMBG resonators based on carbon nanotubes for DNA detection", Romanian Journal of Information Science and Technology, Volume 14, Issue 3, 2011, Pages 212-221
19. Dragoman, M. , Deligeorgis, G., Muller, A., Cismaru, A., Neculoiu, D., Konstantinidis, G., Dragoman, D., Dinescu, A., Comanescu, F. , "Millimeterwave Schottky diode on graphene monolayer via asymmetric metal contacts", Journal of Applied Physics, Volume 112, Issue 8, 15 October 2012, Article number 084302, ISSN: 0021-8979
20. Muller, A.A., Soto, P., Dascalu, D., Neculoiu, D., Boria, V.E., "A 3-D smith chart based on the riemann sphere for active and passive microwave circuits", (2011) IEEE Microwave and Wireless Components Letters, 21 (6), art. no. 5766788, pp. 286-288.
21. Dragoman, M.; Neculoiu, D.; Cismaru, A.; Muller, A. A.; Deligeorgis, G.; Konstantinidis, G.; Dragoman, D.; Plana, R.; , "Coplanar waveguide on graphene in the range 40 MHz–110 GHz," Applied Physics Letters , vol.99, no.3, pp.033112-033112-3, Jul 2011, doi: 10.1063/1.3615289, ISSN:0003-6951 "
22. Dragoman, M., Neculoiu, D., Dragoman, D., Deligeorgis, G., Konstantinidis, G., Cismaru, A., Coccetti, F., Plana, R. "Graphene for microwaves", (2010) IEEE Microwave Magazine, 11 (7), art. no. 5590363, pp. 81-86. ISSN: 1527-3342
23. Müller, A., Neculoiu, D., Konstantinidis, G., Deligeorgis, G., Dinescu, A., Stavriniadis, A., Cismaru, A., Dragoman, M., Stefanescu, A., "SAW devices manufactured on GaN/Si for frequencies beyond 5 GHz", (2010) IEEE Electron Device Letters, 31 (12), art. no. 5608488, pp. 1398-1400.
24. Dragoman, M., Neculoiu, D., Deligeorgis, G., Konstantinidis, G., Dragoman, D., Cismaru, A., Muller, A.A., Plana, R., "Millimeter-wave generation via frequency multiplication in graphene", (2010) Applied Physics Letters, 97 (9), art. no. 093101
25. Deligeorgis, G., Dragoman, M., Neculoiu, D., Dragoman, D., Konstantinidis, G., Cismaru, A., Plana, R., "Microwave switching of graphene field effect transistor at and far from the Dirac point", (2010) Applied Physics Letters, 96 (10), art. no. 103105,
26. Dragoman, M., Konstantinidis, G., Cismaru, A., Vasilache, D., Dinescu, A., Dragoman, D., Neculoiu, D., Buiculescu, R., Deligeorgis, G., Vajpeyi, A.P., Georgakilas, A., "Negative differential resistance in GaN nanowire network", (2010) Applied Physics Letters, 96 (5), art. no. 053116
27. Dragoman, M., Dragoman, D., Deligiorgis, G., Konstantinidis, G., Neculoiu, D., Cismaru, A., Plana, R., "Current oscillations in a wide graphene sheet", (2009) Journal of Applied Physics, 106 (4), art. no. 044312

28. Deligeorgis, G., Dragoman, M., Neculoiu, D., Dragoman, D., Konstantinidis, G., Cismaru, A., Plana, R., "Microwave propagation in graphene", (2009) Applied Physics Letters, 95 (7), art. no. 073107
29. Müller, A., Neculoiu, D., Konstantinidis, G., Stavrinidis, A., Vasilache, D., Cismaru, A., Danila, M., Dragoman, M., Deligeorgis, G., Tsagaraki, K., "6.3-GHz film bulk acoustic resonator structures based on a gallium nitride/silicon thin Membrane", (2009) IEEE Electron Device Letters, 30 (8), pp. 799-801
30. Müller, A., Konstantinidis, G., Dragoman, M., Neculoiu, D., Dinescu, A., Androulidaki, M., Kayambaki, M., Stavrinidis, A., Vasilache, D., Buiculescu, C., Petrini, I., Kostopoulos, A., Dascalu, D., "GaN membrane-supported UV photodetectors manufactured using nanolithographic processes", (2009) Microelectronics Journal, 40 (2), pp. 319-321.(ISSN: 0026-2692)
31. Pursula, P., Vähä-Heikkilä, T., Müller, A., Neculoiu, D., Konstantinidis, G., Oja, A., Tuovinen, J., "Millimeter-wave identification - A new short-range radio system for low-power high data-rate applications", (2008) IEEE Transactions on Microwave Theory and Techniques, 56 (10), art. no. 4631469, pp. 2221-2228.
32. Dragoman, M., Konstantinidis, G., Kostopoulos, A., Dragoman, D., Neculoiu, D., Buiculescu, R., Plana, R., Coccetti, F., Hartnagel, H., "Multiple negative resistances in trenched structures bridged with carbon nanotubes", (2008) Applied Physics Letters, 93 (4), art. no. 043117
33. Müller, A., Konstantinidis, G., Dragoman, M., Neculoiu, D., Kostopoulos, A., Androulidaki, M., Kayambaki, M., Vasilache, D., "GaN membrane metal-semiconductor-metal ultraviolet photodetector", (2008) Applied Optics, 47 (10), pp. 1453-1456.(ISSN: 1559-128X)
34. Dragoman, M., Neculoiu, D., Cismaru, A., Dragoman, D., Grenier, K., Pacchini, S., Mazenq, L., Plana, R., High quality nanoelectromechanical microwave resonator based on a carbon nanotube array, (2008) Applied Physics Letters, 92 (6), art. no. 063118"
35. Takacs, A., Neculoiu, D., Vasilache, D., Muller, A., Pons, P., Bary, L., Calmon, P., Aubert, H., Plana, R., Tunable bandstop MEMS filter for millimetre-wave applications, (2007) Electronics Letters, 43 (12), pp. 675-677
36. Dragoman, M., Muller, A., Neculoiu, D., Vasilache, D., Konstantinidis, G., Grenier, K., Dubuc, D., Bary, L., Plana, R., Flahaut, E., High performance thin film bulk acoustic resonator covered with carbon nanotubes, (2006) Applied Physics Letters, 89 (14), art. no. 143122
37. Müller, A., Neculoiu, D., Vasilache, D., Dascalu, D., Konstantinidis, G., Kostopoulos, A., Adikimenakis, A., Georgakilas, A., Mutamba, K., Sydlo, C., Hartnagel, H.L., Dadgar, A., GaN micromachined FBAR structures for microwave applications, (2006) Superlattices and Microstructures, 40 (4-6 SPEC. ISS.), pp. 426-431.
38. Papaioannou, G.J., Exarchos, M., Theonas, V., Psychias, J., Konstantinidis, G., Vasilache, D., Muller, A., Neculoiu, D., Effect of space charge polarization in radio frequency microelectromechanical system capacitive switch dielectric charging, (2006) Applied Physics Letters, 89 (10), art. no. 103512
39. Saadaoui, M., Pons, P., Plana, R., Bary, L., Dubreuil, P., Bourrier, D., Vasilache, D., Neculoiu, D., Müller, A., Dry followed by wet backside etching processes for micromachined endfire antennae, (2005) Journal of Micromechanics and Microengineering, 15 (7), pp. S65-S71
40. Pantazis, A., Neculoiu, D., Hatzopoulos, Z., Vasilache, D., Lagadas, M., Dragoman, M., Buiculescu, C., Petrini, I., Müller, A.A., Konstantinidis, G., Müller, A., Millimeter-wave passive circuit elements based on GaAs micromachining, (2005) Journal of Micromechanics and Microengineering, 15 (7), pp. S53-S59
41. Bartolucci, G., Neculoiu, D., Marcelli, R., Dragoman, M., Experimental characterisation of 38 GHz micromachined GaAs receiver, (2005) Electronics Letters, 41 (5), pp. 256-257

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01.10.2025

Neculoiu Dan