SCIENTIFIC PUBLICATIONS

Editorials, Reviews, Proceedings & Research Papers **66** (see Table 1 – **citations** are included, cross-references with Table 2 are indicated, **h-index** is given at the end of the table)

Table 1 – Editorials, Reviews, Proceedings & Research Papers (***20** as principal author: corresponding or shared-corresponding, first or joint-first)♣

References	Citations		
	Web of Science	Scopus	Google Scholar
1. A. M. Răduță, A. M. Panaitescu, A. Radu, L. Ion, **V. A. Antohe**, O. Toma, S. Iftimie and Ș. Antohe, *"Effect of the back contact electrode on the performances of the ultra-thin photovoltaic cells based on the CdS/CdTe heterojunction"*, Chalcogenide Letters **20(12)**, 871-882 (2023), **IF$_{(2022)}$: 1.000**, **AIS$_{(2022)}$: 0.101**	0	0	0
2. L. Piraux, N. Marchal, P. Van Velthem, T. da Câmara Santa Clara Gomes, E. Ferain, J. P. Issi and **V. A. Antohe***, *"Polycrystalline bismuth nanowire networks for flexible longitudinal and transverse thermoelectrics"*, Nanoscale **15(33)**, 13708-13717 (2023), doi: 10.1039/D3NR03332E, **IF$_{(2022)}$: 6.700**, **AIS$_{(2022)}$: 1.258**	0	0	1
3. R. Ivan, C. Popescu, **V. A. Antohe**, S. Antohe, C. Negrilă, C. Logofătu, A. Pérez del Pino and E. György, *"Iron oxide/hydroxide – nitrogen doped graphene-like visible-light active photocatalytic layers for antibiotics removal from wastewater"*, Scientific Reports **13**, 2740 (2023), doi: 10.1038/s41598-023-29927-9, **IF$_{(2022)}$: 4.600**, **AIS$_{(2022)}$: 1.132**	6	6	6
4. A. M. Panaitescu and **V. A. Antohe***, *"Study of optical and electrical properties of RF-sputtered ZnSe/ZnTe heterojunctions for sensing applications"*, Coatings **13(1)**, 208 (2023), doi: 10.3390/coatings13010208, **IF$_{(2022)}$: 3.400**, **AIS$_{(2022)}$: 0.439**	1	2	1
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7. **V. A. Antohe***, *"Advances in Nanomaterials for Photovoltaic Applications"*, Nanomaterials **12(20)**, 3702 (2022), doi: 10.3390/nano12203702, EDITORIAL, **IF: 5.300**, **AIS: 0.712** (*Refs. 3 and 4 from Table 2)	1	1	1
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9. A. M. Panaitescu, I. Antohe, C. Locovei, S. Iftimie, Ș. Antohe, L. Piraux, M. P. Suchea and **V. A. Antohe***, *"Effect of the Cadmium Telluride Deposition Method on the Covering Degree of Electrodes Based on Copper Nanowire Arrays"*, Applied Sciences **12(15)**, 7808 (2022), doi: 10.3390/app12157808, **IF: 2.700**, **AIS: 0.414**	0	1	1
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11. M. E. Bărbîță-Pătrașcu, M. Bacalum, **V. A. Antohe**, S. Iftimie and Ș. Antohe, "Bio-Nanoplatinum Phyto-Developed from Grape Berries and Nettle Leaves: Potential Adjuvants in Osteosarcoma Treatment", Romanian Reports in Physics 74, 601 (2022), **IF: 2.700**, **AIS: 0.245**	1	1	1
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13. D. Manica, **V. A. Antohe**, A. Moldovan, R. Pascu, S. Iftimie, L. Ion, M. P. Suchea and S. Antohe, *"Thickness Effect on Some Physical Properties of RF Sputtered ZnTe Thin Films for Potential Photovoltaic Applications"*, Nanomaterials **11(9)**, 2286 (2021), doi: 10.3390/nano11092286, **IF: 5.719**, **AIS: 0.738** (*Ref. 6 from Table 2)	8	10	9
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16. J. O. Omale, P. Van Velthem, **V. A. Antohe**, A. Vlad and L. Piraux, *"Effects of Electrolyte Additives and Nanowire Diameter on the Electrochemical Performance of Lithium-ion Battery Anodes Based on Interconnected Nickel-Tin Nanowire Networks"*, Energy Technology **9**, 2100062 (2021), doi: 10.1002/ente.202100062, **IF: 4.149**, **AIS: 0.663**	5	5	5

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27. J. O. Omale, R. Rupp, P. Van Velthem, V. Van Kerckhoven, **V. A. Antohe**, A. Vlad and L. Piraux, *"Three-dimensional microsupercapacitors based on interdigitated patterns of interconnected nanowire networks"*, Energy Storage Materials **21**, 77-84 (2019), doi: 10.1016/j.ensm.2019.05.025, **IF: 16.280**, **$AIS_{(2020)}$: 3.409**	23	25	29
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61. L. Piraux, K. Renards, R. Guillemet, S. Matéfi-Tempfli, M. Matéfi-Tempfli, **V. A. Antohe**, S. Fusil, K. Bouzehouane and V. Cros, *"Template-grown NiFe/Cu/NiFe nanowires for spin transfer devices"*, Nano Letters **7(9)**, 2563-2567 (2007), doi: 10.1021/nl070263s, **IF: 9.627, AIS: 4.160**	86	84	111
62. L. Ion, **V. A. Antohe**, M. Ghenescu, O. Ghenescu, R. Bazavan, M. Danila, M. M. Gugiu and S. Antohe, *"The effect of ionizing radiations on the structural, electrical and optical properties of AII-BVI polycrystalline thin films used as solar cell materials"*, Proc. Thin-Film Compound Semiconductor Photovoltaics **1012**, 343-348 (2007), doi: 10.1557/PROC-1012-Y12-01, REVIEW, **IF: N/A, AIS: N/A** (*Ref. 11 from Table 2)	6	6	2
63. L. Ion, **V. A. Antohe** and S. Antohe, *"Defects induced by electron irradiation in CdSe thin films"*, J. Optoelectron. Adv. Mat. **7(4)**, 1847-1858 (2005), **IF: 1.138, AIS$_{(2007)}$: 0.161**	5	6	7
64. S. Antohe, L. Ion and **V. A. Antohe**, *"The effect of the electron irradiation on the structural and electrical properties of A(II)-B(VI) thin polycrystalline films"*, J. Optoelectron. Adv. Mat. **5(4)**, 801-816 (2003), **IF: 0.996, AIS$_{(2007)}$: 0.161**	25	24	34
65. S. Antohe, L. Ion and **V. A. Antohe**, *"The Structural and Electrical Properties of Thin Polycristalline CdSe and CdS Layers Before and After Electron Irradiation"*, Rom. Journ. Phys. Supplement I **48**, 511-519 (2003), **EFn$_{(EIGENFACTOR\ 2009)}$: 0.040, AI $_{(EIGENFACTOR\ 2009)}$: 0.100**	0	0	6
66. L. Ion. R. Schiopu, **V. A. Antohe**, V. Ruxandra and S. Antohe, *"Electrical properties of non-irradiated and electron irradiated thin polycrystalline CdSe layers"*, Rom. Journ. Phys. **53(3-8)**, 451-459 (2001), **EFn$_{(EIGENFACTOR\ 2009)}$: 0.040, AI $_{(EIGENFACTOR\ 2009)}$: 0.100**	0	0	2
Total citations	889	934	1123
Without self-citations	758	794	976
h-index (03/01/2024)	**20**	**20**	**21**

*Unless otherwise specified, scientometric data (Impact Factor – **IF**, Article Influence Score – **AIS**, Ranking by **IF** – **Q1**, **Q2**, **Q3** and **Q4**) are from Clarivate – **Journal Citation Reports (JCR)**, taken from the year of publication or when it is not available, from the nearest previous or next available year.

Books, Booklets & Book Chapters **11** (see Table 2 – cross-references with Table 1 are indicated)

Table 2 – Books, Booklets and Book Chapters (***4** as principal, the only author, or editor)

References

1. Ș. Antohe and **V. A. Antohe**, *"Electromagnetism and Special Methods for Electric Circuits Analysis"*, 400 pages, IOP Publishing Ltd., Bristol, UK, ISBN: 978-0-750-35852-1 (2024), in press
2. Ș. Antohe and **V. A. Antohe**, *"Electrostatics: Formalism of the electrostatic field in vacuum and matter"*, 266 pages, IOP Publishing Ltd., Bristol, UK, doi: 10.1088/978-0-7503-5859-0, ISBN: 978-0-750-35857-6 (August 2023)
3. *"Advances in Nanomaterials for Photovoltaic Applications"* (Ed: **V. A. Antohe***), 250 pages, Special Issue published in Nanomaterials, MDPI, 4052 Basel, Switzerland, doi: 10.3390/books978-3-0365-7051-8, ISBN: 978-3-0365-7050-1 (2023) (*Refs. 7 and 12 from Table 1)
4. **V. A. Antohe***, *"Advances in Nanomaterials for Photovoltaic Applications"*, in Advances in Nanomaterials for Photovoltaic Applications (Ed: **V. A. Antohe**), 1-3, Special Issue published in Nanomaterials, MDPI, 4052 Basel, Switzerland, doi: 10.3390/books978-3-0365-7051-8, ISBN: 978-3-0365-7050-1 (2023), EDITORIAL (*Ref. 7 from Table 1)
5. O. Toma, **V. A. Antohe***, A. M. Panaitescu, S. Iftimie, A. M. Răduță, A. Radu, L. Ion and Ș. Antohe, *"Effect of RF Power on the Physical Properties of Sputtered ZnSe Nanostructured Thin Films for Photovoltaic Applications"*, in Advances in Nanomaterials for Photovoltaic Applications (Ed: **V. A. Antohe**), 121-135, Special Issue published in Nanomaterials, MDPI, 4052 Basel, Switzerland, doi: 10.3390/books978-3-0365-7051-8, ISBN: 978-3-0365-7050-1 (2023) (*Ref. 12 from Table 1)
6. D. Manica, **V. A. Antohe**, A. Moldovan, R. Pascu, S. Iftimie, L. Ion, M. P. Suchea and S. Antohe, *"Thickness Effect on Some Physical Properties of RF Sputtered ZnTe Thin Films for Potential Photovoltaic Applications"*, in Novel Nanocomposites: Optical, Electrical, Mechanical and Surface Related Properties (Eds: M. Suchea, E. Koudoumas and P. Pascariu), 79-97, Special Issue published in Nanomaterials, MDPI, 4052 Basel, Switzerland, doi: 10.3390/books978-3-0365-2248-7, ISBN: 978-3-0365-2247-0 (2021) (*Ref. 13 from Table 1)
7. S. Iftimie, **V. A. Antohe**, A. Radu and S. Antohe, *"Study of the physical properties of chlorophyll-a and polymers thin films for photovoltaic applications – a brief review"*, in Proceedings of the International Workshop on Advances in Nanomaterials (Eds: V. Barsan and V. Kuncser), 27-39, Horia Hulubei Publishing House, Bucharest-Măgurele, ISBN: 978-606-94603-9-9 (2018), REVIEW
8. S. Antohe, L. Ion, F. Stanculescu, S. Iftimie, A. Radu and **V. A. Antohe**, *"Fizica și tehnologia materialelor semiconductoare – Lucrări practice"*, Ars Docendi, Universitatea din București, 165 Pages, ISBN: 978-973-558-940-0 (2016)
9. **V. A. Antohe***, *"Capacitive Sensors Based on Localized Nanowire Arrays. Nanotechnology & Device Integration Routes"*, Lambert Academic Publishing (LAP), 244 Pages, ISBN: 978-3-659-38899-6 (May 2013)
10. S. Antohe, I. Enculescu, C. Besleaga, I. Arghir, **V. A. Antohe**, V. Covlea, A. Radu and L. Ion, *"Hybrid Nanostructured Organic/Inorganic Photovoltaic Cells"*, in Nanostructured Materials and Nanotechnology IV: Ceramic Engineering and Science Proceedings (Eds: S. Mathur, S. S. Ray and T. Ohiji), **Vol. 31 (Iss. 7), Ch. 9**, John Wiley & Sons, Inc., Hoboken, NJ, USA, ISBN: 978-0-470-59472-8 (October, 2010), REVIEW (*Ref. 52 from Table 1)
11. L. Ion, **V. A. Antohe**, M. Ghenescu, O. Ghenescu, R. Bazavan, M. Danila, M. M. Gugiu and S. Antohe, *"The Effect of Ionizing Radiations on the Structural, Electrical and Optical Properties of AIIBVI Polycrystalline Thin Films Used as Solar Cell Materials"*, in MRS Proceedings: Symposium Y – Thin-Film Compound Semiconductor Photovoltaics-2007 (Eds: K. Durose, T. Gessert, C. Heske, S. Marsillac and T. Wada), **Vol. 1012**, 1012-Y12-01 (343-348, 6 Pages), ISBN: 978-1-10740-866-1 (August 2007), REVIEW (*Ref. 62 from Table 1)

Conf. Univ. Dr. Ing. Habil. Vlad-Andrei ANTOHE

WORKSHOPS & CONFERENCES

Seminar & Plenary Talks 6 (see Table 1)

Table 1 – National and International Events with **Seminar** Lecture or **Plenary** Communication (*Presenting author)

Communication Events

1. **V. A. Antohe***, *"Electrochemical Synthesis of Vertical ZnO quasi-1D nanostructures for Electronics and Optoelectronics. Template-Assisted and Template-Free Approaches"*, Research Group Meeting, MDEO Seminar, January 16, 2019, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania
2. **V. A. Antohe***, *"Electrochemical Synthesis of Vertical ZnO quasi-1D nanostructures for Electronics and Optoelectronics. Template-Assisted and Template-Free Approaches"*, 6th ELBYSIER (Electronics Beyond Silicon Era) Intensive Course: "Closing IC", ERASMUS+, July 2-7, 2018, Technological Educational Institute (TEI) of Crete, Department of Electronic Engineering, Chania, Crete, Greece
3. **V. A. Antohe***, *"Quasi One-Dimensional Nanostructures for Electronics, Magnetic Devices & Spintronics"*, 5th ELBYSIER (Electronics Beyond Silicon Era) Intensive Course: "Spintronic Technologies", ERASMUS+, April 10-14, 2018, University of Warsaw (UW), Faculty of Physics, Warsaw, Poland
4. **V. A. Antohe***, *"Complex Arrays of One-Dimensional Nanostructures Prepared by Template-Assisted Electrochemistry: From Nanofabrication towards Next Generation Devices"*, 4th ELBYSIER (Electronics Beyond Silicon Era) Intensive Course: "Graphene Technologies and Nano-Electronics", ERASMUS+, October 9-13, 2017, New University of Lisbon (UNL), Faculty of Science and Technology (FCT), Caparica, Portugal
5. **V. A. Antohe***, *"Complex Patterns of Multi-Functional One-Dimensional Nanostructures: From Nanofabrication towards Next Generation Devices"*, Plenary Lecture for academic staff, postgraduate, graduate and undergraduate students, held as ***Visiting Professor*** at Université catholique de Louvain (UCL), September 29th, 2017, Louvain-la-Neuve, Belgium
6. **V. A. Antohe***, *"Smartly Engineered Nanostructured Electrodes: From nanofabrication towards next generation devices"*, 2017 Annual Scientific Conference: "Knowledge means Physics", June 23, 2017, Faculty of Physics, University of Bucharest, Măgurele, Romania

Invited Lectures 12 (see Table 2)

Table 2 – National and International Events with **Invited** Communication (*Presenting author)

Communication Events

1. A. M. Panaitescu and **V. A. Antohe***, *"Physical and Photoelectric Properties of Heterojunctions Based n Zinc Telluride and Zinc Selenide Thin Films for UV Detectors"*, 21st International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2023), Materials Physics, July 11-14, 2023, Constanța, Romania
2. **V. A. Antohe***, A. M. Panaitescu and I. Antohe, *"Effect of the Cadmium Telluride Deposition Method on the Covering Degree of Electrodes Based on Copper Nanowire Arrays"*, 20th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2022), Materials Physics, July 12-15, 2022, Constanța, Romania
3. **V. A. Antohe***, *"Electrochemical synthesis of vertical ZnO quasi-1D nanostructures for electronics and optoelectronics. Template-assisted and template-free approaches"*, 19th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2019), Materials Physics, July 16-19, 2019, Constanta, Romania
4. **V. A. Antohe***, *"Complex arrays of Nanowires & Nanotubes. From nanofabrication toward next generation devices"*, 17th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2017), Engineering and Industrial Physics, July 11-14, 2017, Constanta, Romania
5. **V. A. Antohe***, *"Complex arrays of one-dimensional nanostructures prepared by template-assisted electrochemistry: from nanofabrication toward next generation devices"*, 39th International Semiconductor Conference (CAS 2016), Plenary Session 4 (Invited Papers), October 10-12, 2016, Sinaia, Romania
6. **V. A. Antohe*** and L. Piraux, *"Fabrication of One-Dimensional Zinc Oxide Nanostructures Using Template-Free Electrochemical Pathways"*, 14th International Balkan Workshop on Applied Physics (IBWAP14), Materials Physics, July 2-4, 2014, Constanta, Romania
7. F. Abreu Araujo, **V. A. Antohe** and L. Piraux, *"Les nano-oscillateurs à transfert de spin à base de vortex fabriqués par électro-déposition dans des membranes en alumine nanoporeuse"*, Séminaire @ Université Paris 13, May 30, 2013, Paris, France
8. L. Piraux, F. Abreu Araujo, **V. A. Antohe**, J. De la Torre Medina and A. Encinas, *"Interacting magnetic nanowire arrays for studies in nanomagnetism and spintronics"*, XXI International Material Research Congress, Nano Science and Technology (Symp. 1C), August 12-17, 2012, Cancún, Mexico
9. **V. A. Antohe*** and L. Piraux, *"Circuit Modelling on Polyaniline Functionalized Nanowire Templated Micro-Interdigital Capacitors for pH Sensing. Device Integration Routes"*, 12th International Balkan Workshop on Applied Physics (IBWAP12), Biophysics, Environmental Physics, July 6-8, 2011, Constanta, Romania
10. **V. A. Antohe*** and L. Piraux, *"Polyaniline-Functionalized Nanowire-Templated Micro-Interdigital Capacitors for Highly-Sensitive pH Detection"*, E-MRS 2011 Spring Meeting, Bioinspired and Biointegrated Materials as New Frontiers Nanomaterials (Symp. P), May 9-13, 2011, Nice, France
11. **V. A. Antohe***, *"Fabrication of Localized Nanowire Arrays. A Step Forward in Highly-Efficient pH Sensors"*, Trends in Nanoscience: Theory, Experiment, Technology (TN'09), August 23-30, 2009, Sibiu, Romania
12. **V. A. Antohe***, *"Fabrication of Localized Nanowire Arrays. A Step Forward in Highly-Sensitive Detecting Applications"*, Romanian Conference on Advanced Materials (ROCAM 2009), August 25-28, 2009, Brasov, Romania

Oral Presentations 62 (see Table 3)

Table 3 – National and International Events with **Oral** Communication (*Presenting author; **Corresponding author)

Communication Events

1. **V. A. Antohe** and S. Antohe, *"On the Physical and Photo-Electrical Properties of Organic and Hybrid Organic-Inorganic Photovoltaic Cells Based on Polymeric-Small Molecules Composites"*, Conferința Națională Științifică de Toamnă a Academiei Oamenilor de Știință din România (AOSR) "Știința pentru o societate sănătoasă", September 21-23, 2023, "OVIDIUS" University, Constanța, Romania
2. A. M. Popa, A. Stochioiu, L. I. Toderașcu, **V. A. Antohe**, G. Socol and I. Antohe, *"Highly-sensitive detection of ammonia using chemiresistive sensors"*, Pentagon of the Faculties of Physics, July 15-17, 2023, "Alexandru Ioan Cuza" University, Iași, Romania
3. M. L. Stîngescu, E. I. Bancu, V. Ion, N. D. Scărișoreanu, **V. A. Antohe** and Ș. Antohe, *"Influence of graphene oxide adding on the photovoltaic properties of bulk heterojunction solar cells"*, 21st International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2023), Materials Physics, July 11-14, 2023, Constanța, Romania
4. M. C. Bălășin, M. L. Stîngescu, E. I. Bancu, F. Iacob, **V. A. Antohe**, S. Iftimie and S. Antohe, *"The influence of CuPc nanoparticles adding on the performances of photovoltaic cells based on P3HT:$PC_{71}BM$ (1:1) polymeric blend"*, 21st International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2023), Materials Physics, July 11-14, 2023, Constanța, Romania
5. I. Antohe, L. I. Toderașcu, A. Stochioiu, A. M. Popa, **V. A. Antohe** and G. Socol, *"Development of a fiber optic – surface plasmon resonance (FO-SPR) sensor for food and environmental monitoring"*, 21st International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2023), Engineering and Industrial Physics, July 11-14, 2023, Constanța, Romania
6. A. M. Panaitescu, **V. A. Antohe**** and Ș. Antohe, *"Study of Optical and Electrical Properties of RF-Sputtered ZnSe/ZnTe Heterojunctions for UV detecting applications"*, 2023 Annual Scientific Conference, Solid State Physics and Materials Science, Optics, Spectroscopy, Plasma and Lasers, May 26, 2023, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania
7. F. Iacob, M. Bălășin, Ș. Antohe, S. Iftimie, **V. A. Antohe****, *"The effect of CuPc nanoparticles adding on the optical and photo-electrical behavior of the bulk heterojunction photovoltaic cells based on P3HT:$PC_{71}BM$ (1:1) polymeric blend"*, 2023 Annual Scientific Conference, Solid State Physics and Materials Science, Optics, Spectroscopy, Plasma and Lasers, May 26, 2023, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania
8. A. M. Popa, A. Stochioiu, L. I. Toderașcu, **V. A. Antohe**, G. Socol and I. Antohe, *"Highly-sensitive detection of ammonia using polymer based chemiresistive sensors"*, 2023 Annual Scientific Conference, Solid State Physics and Materials Science, Optics, Spectroscopy, Plasma and Lasers, May 26, 2023, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania
9. **V. A. Antohe** and S. Antohe, *"Study of Optical and Electrical Properties of RF-Sputtered ZnSe/ZnTe Heterojunctions for Sensing Applications "*, National Scientific Conference, Spring 2023 – „Digital Transformation in Science" (AOSR), May 19-20, 2023, Bucharest, Romania
10. **V. A. Antohe** and S. Antohe, *"Study of the RF-sputtered ZnTe thin films for electronic and optoelectronic applications"*, Conferința Națională Științifică de Toamnă a Academiei Oamenilor de Știință din România (AOSR), November 03-05, 2022, Cluj-Napoca, Romania
11. **V. A. Antohe** and S. Antohe, *"Study of the RF-sputtered ZnSe and ZnTe Thin Films for Electronic and Optoelectronic Applications"*, Conferința Națională Științifică de Primăvară a Academiei Oamenilor de Știință din România (AOSR), May 06-07, 2022, Bucharest, Romania **(Online)**
12. A. M. Panaitescu and **V. A. Antohe****, *"Fabrication and characterization of Cd-free A^{II}-B^{VI} heterojunctions for sensing applications"*, 14th International Conference on Physics of Advanced Materials (ICPAM-14), Thin Films and Nanostructures for Modern Electronics (T1), September 8-15, 2022, Dubrovnik, Croatia **(Online)**
13. B. G. Șolomonea, L. I. Jinga, **V. A. Antohe**, G. Socol and I. Antohe, *"Detection of cadmium ions (Cd^{2+}) using an innovative optical fiber sensor"*, Pentagon of the Faculties of Physics, July 24-26, 2022, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania
14. A. M. Panaitescu, D. Giurgiu, **V. A. Antohe**, S. Iftimie, A. M. Răduță, A. Radu, L. Ion and Ș. Antohe, *"Study of A^{II}-B^{VI} zinc-based thin films for sensing applications"*, 2022 Annual Scientific Conference, Solid State Physics and Materials Science, Optics, Spectroscopy, Plasma and Lasers, June 24, 2022, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania
15. B. G. Șolomonea, L. I. Jinga, **V. A. Antohe**, G. Socol and I. Antohe, *"Cadmium ions (Cd^{2+}) detection using a portable plasmonic based optical fiber sensor"*, 2022 Annual Scientific Conference, Solid State Physics and Materials Science, Optics, Spectroscopy, Plasma and Lasers, June 24, 2022, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania
16. C. Radu, O. Toma, Ș. Antohe, **V. A. Antohe** and C. Miron, *"Physics classes enhanced by smartphone experiments"*, 2022 Annual Scientific Conference, Physics Education, June 24, 2022, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania
17. A. Stochioiu, I. Antohe, L. I. Jinga, A. Mihăilescu, G. Popescu-Pelin, **V. A. Antohe** and G. Socol, *"Highly specific hydrogen gas detection using PMMA/PANi/Au chemoresistive sensor"*, International Conference on Laser, Plasma and Radiation Science and Technology (ICLPR-ST), Modern devices for ultrasensitive detection, June 07-10, 2022, Bucharest – Parliament Palace, Romania
18. I. Antohe, I. Jinga, I. Kuncser, **V. A. Antohe** and G. Socol, *"Development of a Polymer Based Fiber Optic – Surface Plasmon Resonance (FO-SPR) Sensor for Environmental Monitoring"*, International Conference on Laser, Plasma and Radiation Science and Technology (ICLPR-ST), Modern devices for ultrasensitive detection, June 07-10, 2022, Bucharest – Parliament Palace, Romania
19. A. M. Panaitescu, I. Antohe, C. Locovei, S. Iftimie, Ș. Antohe, L. Piraux and **V. A. Antohe****, *"Study of Cadmium Telluride-Embedded Copper Nanowire Interfaces for Photovoltaic Applications"*, E-MRS 2022 Spring Meeting, Thin film chalcogenide photovoltaic materials (Symp. K), May 30-June 03, 2022, Strasbourg, France **(Online – Virtual Conference)**
20. A. I. Radu, **V. A. Antohe**, S. Iftimie, I. Antohe, M. Filipescu, A. Radu, D. Coman, M. L. Stîngescu, E. I. Bancu, M. Dinescu and Ș. Antohe, *"New composite based on SnO_2 nanoparticles-P3HT:$PC_{71}BM$ co-polymer blend, as absorber in bulk heterojunction photovoltaic cells"*, E-MRS 2022 Spring Meeting, Advanced characterization of organic and hybrid materials (Symp. U), May 30-June 03, 2022, Strasbourg, France **(Online – Virtual Conference)**

21. I. Antohe, A. Stochioiu, L. I. Jinga, A. Mihăilescu, G. Popescu-Pelin, **V. A. Antohe** and G. Socol, *"Hydrogen gas monitoring using a polymer-based conductometric sensor"*, E-MRS 2022 Spring Meeting, Polymer and hybrid thin films deposited from the vapor phase for functional (bio-devices) (Symp. S), May 30-June 03, 2022, Strasbourg, France **(Online – Virtual Conference)**
22. J. O. Omale, P. Van Velthem, **V. A. Antohe**, A. Vlad and L. Piraux, *"Effects of Electrolyte Additives and Nanowire Diameter on the Electrochemical Performance of Lithium-Ion Battery Anodes Based on Interconnected Nickel-Tin Nanowire Networks"*, 241st ECS Meeting, A02 – Li-ion Battery Anodes 1, May 29 – June 02, 2022, Vancouver, BC, Canada
23. B. G. Șolomonea, L. I. Jinga, **V. A. Antohe**, G. Socol and I. Antohe, *"Cadmium detection in water samples using a fiber optic – surface plasmon resonance sensor"*, 18th International Conference "Students for Students" (ICSFS), April 6-10, 2022, Faculty of Chemistry and Chemical Engineering, Babeș-Bolyai University, Cluj-Napoca, Romania **(Online)**
24. **V. A. Antohe** and S. Antohe, *"Study of the RF-sputtered ZnSe thin films for electronic and optoelectronic applications"*, Conferința Științifică de Toamnă a Academiei Oamenilor de Știință din România (AOSR), November 18-19, 2021, Bucharest, Romania **(Online)**
25. A. M. Panaitescu, A. M. Răduță, **V. A. Antohe**, S. Iftimie, L. Ion, A. Radu and Ș. Antohe, *"Physical properties of ultra-thin heterojunctions based on Cd and Cd free A^{II}-B^{VI} compounds for electronic and optoelectronic applications"*, TIM 20-21 Physics Conference, Condensed Matter Physics, Timișoara, November 11-13, 2021, Timișoara, Romania **(Online)**
26. A. M. Panaitescu, **V. A. Antohe**, S. Iftimie, O. Toma, L. Ion, A. Radu and Ș. Antohe, *"Effect of RF power on structural, morphological, optical and electrical properties of RF – sputtered ZnSe thin films for electronic and optoelectronic applications"*, 2021 Annual Scientific Conference, Solid State Physics and Materials Science, June 18, 2021, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania **(Online)**
27. A. M. Răduță, S. Iftimie, **V. A. Antohe**, C. Locovei, A. Radu, L. Ion and Ș. Antohe, *"Effect of working power and thermal treatment on physical properties of RF-sputtered CdTe thin films for photovoltaic applications"*, 2021 Annual Scientific Conference, Solid State Physics and Materials Science, June 18, 2021, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania **(Online)**
28. M. E. Bărbînță-Pătrașcu, M. Bacalum, **V. A. Antohe**, S. Iftimie and Ș. Antohe, *"Bio-NanoPlatinum generated from nettle leaves and grape berries: potential applications in osteosarcoma therapy"*, 2021 Annual Scientific Conference, Biophysics and Medical Physics, June 18, 2021, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania **(Online)**
29. **V. A. Antohe** and S. Antohe, *"Effect of the applied power on the physical properties of RF-sputtered ZnSe thin films"*, Conferința Științifică de Primăvară a Academiei Oamenilor de Știință din România (AOSR), June 10, 2021, Bucharest, Romania **(Online)**
30. I. Antohe, **V. A. Antohe** and G. Socol, *"Development of an innovative fiber optic - surface plasmon resonance (FO-SPR) sensor for food and environmental monitoring"*, E-MRS 2021 Spring Meeting, Bioinspired and biointegrated materials as new frontiers nanomaterials (Symp. O), May 31-June 04, 2021, Strasbourg, France **(Online – Virtual Conference)**
31. S. Iftimie, D. Coman, C. Locovei, A. Rad, **V. A. Antohe**, A. Dumitru, M. Manica, C. Radu, L. Ion, and S. Antohe, *"Effects of in-situ and ex-situ thermal annealing on the physical properties of RF sputtered indium tin oxide thin films"*, E-MRS 2021 Spring Meeting, Substitution and recycling of critical raw materials in optoelectronic, magnetic and energy devices III (Symp. S), May 31-June 04, 2021, Strasbourg, France **(Online – Virtual Conference)**
32. C. Locovei, N. Filipoiu, A. Kuncser, A. E. Stanciu, Ș. Antohe, C. F. Florica, A. Costas, I. Enculescu, L. Piraux, V. Kuncser and **V. A. Antohe****, *"Unidirectional Magnetic Anisotropy in Dense Vertically-Standing Arrays of Passivated Nickel Nanotubes"*, E-MRS 2021 Spring Meeting, Substitution and recycling of critical raw materials in optoelectronic, magnetic and energy devices III (Symp. S), May 31-June 04, 2021, Strasbourg, France **(Online – Virtual Conference)**
33. **V. A. Antohe** and S. Antohe, *"Physical Properties of RF-sputtered ZnS and ZnSe Thin Films for Photovoltaic Applications"*, Conferința Științifică de Toamnă a Academiei Oamenilor de Știință din România (AOSR), November 25-27, 2020, Bucharest, Romania **(Online)**
34. I. Antohe, A. Stochioiu, **V. A. Antohe** and G. Scocol, *"Picomolar detection of 4-nitrophenol using a polyaniline/platinum-coated fiber optic surface plasmon resonance sensor"*, Nanoscience and Nanotechnology International Online Conference (NanoPT 2020), September 23-24, 2020, Portugal **(Online)**
35. **V. A. Antohe** and S. Antohe, *"On the Physical and Photo-Electrical Properties of Organic Photovoltaic Cells Based on 1,10 Phenanthroline (Phen) and 10,15,20-tetra(4-pyridyl)-21H,23H-porphine (TPyP) Thin Films"*, Conferința Științifică de Primăvară a Academiei Oamenilor de Știință din România (AOSR), May 28 – Iunie 7, 2020, Bucharest, Romania **(Online)**
36. A. M. Panaitescu, Ș. Antohe, S. Iftimie, A. Radu, L. Ion and **V. A. Antohe****, *"On the Fabrication and Characterization of CdTe-Embedded Cu Nanowire Arrays for Photovoltaic Applications"*, 19th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2019), Materials Physics, July 16-19, 2019, Constanta, Romania
37. A. M. Răduță, L. Ion, S. Iftimie, V. Ghenescu, M. Ghenescu, **V. A. Antohe**, A. Radu, L. Dan and Ș. Antohe, *"Physical Properties of RF-Sputtered ZnS and ZnSe Thin Films Used for Double-Heterojunction ZnS/ZnSe/CdTe Photovoltaic Structures"*, 19th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2019), Materials Physics, July 16-19, 2019, Constanta, Romania
38. N. Vasile, S. Iftimie, T. Acsente, C. Locovei, V. Ion, A. Călugăr, A. Radu, **V. A. Antohe**, M. Manica, S. Vizireanu, G. Dinescu and Ș. Antohe, *"Comparison of the Properties of IZO and AZO Thin Films Deposited by RF Magnetron Sputtering"*, 19th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2019), Laser, Plasma and Radiation Physics and Applications, July 16-19, 2019, Constanta, Romania
39. A. M. Răduță, S. Iftimie, V. Ghenescu, M. Ghenescu, **V. A. Antohe**, A. Radu, C. Radu, D. Manica, D. Coman, L. Dan, L. Ion and Ș. Antohe, *"Study of rf-sputtered ZnS and ZnSe thin films for photovoltaic applications"*, 2019 Annual Scientific Conference, Solid State Physics and Materials Science, June 21-22, 2019, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania
40. C. Locovei, D. Coman, A. Radu, L. Ion, **V. A. Antohe**, N. Vasile, M. Colt, M. Manica, A. Dumitru, S. Iftimie, Ș. Antohe, *"Physical characterization of Dy and Cu co-doped ZnO thin films grown by radio-frequency magnetron sputtering"*, 2019 Annual Scientific Conference, Solid State Physics and Materials Science, June 21-22, 2019, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania

41. A. Călugăr, M. Filipescu, S. Iftimie, A. Radu, **V. A. Antohe**, D. Coman, M. Colt, M. Manica, M. Dinescu, S. Antohe, *"Study of the physical properties of P3HT:PCBM:SnO2 thin films based photovoltaic structures"*, 2019 Annual Scientific Conference, Solid State Physics and Materials Science, June 21-22, 2019, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania
42. A. M. Panaitescu, S. Iftimie, Ș. Antohe, L. Ion, A. Radu and **V. A. Antohe****, *"Fabrication and characterization of Cu nanowire arrays for photovoltaic applications"*, 12th International Conference on Physics of Advanced Materials (ICPAM-12), Materials for Energy and Environment (T3), September 22-28, 2018, Technological Educational Institute (TEI) of Crete, Heraklion, Greece
43. S. Iftimie, A. Radu, F. Băiașu, A. M. Răduță, **V. A. Antohe**, D. Coman, A. M. Panaitescu, L. Ion and Ș. Antohe, *"On the physical properties of ZnSe1-xOx thin film grown by rf-magnetron sputtering"*, 12th International Conference on Physics of Advanced Materials (ICPAM-12), Thin Films and Nanostructures for Modern Electronics (T1), September 22-28, 2018, Technological Educational Institute (TEI) of Crete, Heraklion, Greece
44. A. M. Panaitescu, S. Iftimie, Ș. Antohe, L. Ion, A. Radu and **V. A. Antohe****, *"Fabrication and characterization of Cu nanowire arrays for photovoltaic applications"*, International Workshop on Advances in Nanomaterials (IWAN 2018), Section IV: Photovoltaics, photocatalysis and photonics, September 17-19, 2018, National Institute of Materials Physics (NIMP), Bucharest-Măgurele, Romania
45. A. M. Panaitescu, S. Iftimie, Ș. Antohe, L. Ion, A. Radu and **V. A. Antohe****, *"Fabrication and Characterization of Cu nanowire arrays for photovoltaic applications"*, 2018 Annual Scientific Conference dedicated to Great Union Centenary, Solid State Physics and Materials Science, June 21-22, 2018, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania
46. A. Călugăr, S. Iftimie, A. Radu, **V. A. Antohe**, L. Dan, D. Coman, L. Ion and Ș. Antohe, *"Photovoltaic cells with polymeric/chlorophyll-a thin films – electrical and photoelectrical characterization"*, 2018 Annual Scientific Conference dedicated to Great Union Centenary, Solid State Physics and Materials Science, June 21-22, 2018, Faculty of Physics, University of Bucharest, Bucharest-Măgurele, Romania
47. P. Sá, **V. A. Antohe**, A. Jonas and L. Piraux, *"Hybrid Magnetoelectric Nanocomposites"*, PhD Students' Day, May 20, 2016, Louvain-la-Neuve, Belgium
48. A. Vlad, **V. A. Antohe***, J. Rolland, J. F. Gohy and L. Piraux, *"Laser Micropatterned Electrodes and 3D Interconnected Nanowire Networks towards Lithium Microbattery Architectures"*, E-MRS 2016 Spring Meeting, Materials and systems for micro-energy harvesting and storage (Symp. W), May 02-06, 2016, Lille, France
49. **V. A. Antohe***, E. Ferain, D. Lahem and L. Piraux, *"Self-Supported Three-Dimensionally Interconnected Polypyrrole Nanotubes and Nanowires for Highly-Sensitive Gas Detection"*, E-MRS 2016 Spring Meeting, Functional materials for environmental sensors and energy systems (Symp. X), May 02-06, 2016, Lille, France
50. P. Sá, **V. A. Antohe**, A. M. Jonas and L. Piraux, *"Hybrid $CoFe_2O_4$ / P(VDF-TrFE) Magnetoelectric Nanocomposites"*, E-MRS 2016 Spring Meeting, Solution processing and properties of functional oxide thin films and nanostructures II (Symp. AA), May 02-06, 2016, Lille, France
51. J. Schwenk, H. J. Hug, M. A. Marioni, T. Hauet, M. Hehn, F. Abreu Araujo, **V. A. Antohe**, S. K. Srivastava and L. Piraux, *"Capacitive distance control for measuring particulate magnetic media with Magnetic Force Microscopy"*, IEEE International Magnetics Conference (INTERMAG 2015), Magnetic Imaging and Characterization I (Session BE), May 11-15, 2015, Beijing, China
52. T. Hauet, L. Piraux, S. K. Srivastava, **V. A. Antohe**, D. Lacour, M. Hehn, F. Montaigne, J. Schwenk, M. A. Marioni, H. J. Hug, O. Hovorka, A. Berger, S. Mangin and F. Abreu Araujo, *"Reversal mechanism in Co/Pt patterned media with dipolar frustrations"*, 59th Annual Conference on Magnetism and Magnetic Materials (MMM), November 3-7, 2014, Honolulu, Hawaii, USA
53. **V. A. Antohe***, M. Mickan, F. Henry and L. Piraux, *"Direct Electrochemical Growth of Vertically-Oriented ZnO Nanorod Arrays on Transparent Al-Doped ZnO Electrodes"*, E-MRS 2014 Spring Meeting, Solution Processing and Properties of Functional Oxide Thin Films and Nanostructures, Optoelectronic Materials I (Symp. I), May 26-30, 2014, Lille, France
54. F. Abreu Araujo, N. Locatelli, A. D. Belanovsky, **V. A. Antohe**, V. Cros and L. Piraux, *"Spin-torque nanowire vortex oscillators"*, Nano Science & Technology (Nano S&T), September 26-28, 2013, Xi'an, China
55. L. Piraux, F. Abreu Araujo, **V. A. Antohe**, J. De la Torre Medina and A. Encinas, *"Properties and potential applications of electrochemically template grown magnetic nanowires"*, International Conference & Exhibition on Advanced & Nano Materials (ICANM 2013), August 12-14, 2013, Quebec, Canada
56. **V. A. Antohe***, L. Gence and L. Piraux, *"Template-Free Electrochemical Deposition of Highly Oriented ZnO Columnar Arrays for Photovoltaic Applications"*, Solar Energy for World Peace, Photovoltaic Materials I, August 17-19, 2013, Istanbul, Turkey
57. A. Sediri, L. Piraux, **V. A. Antohe**, F. Abreu Araujo, M. Hehn, D. Lacour, S. Mangin and T. Hauet, *"Magetic Behavior of Co/Pt and TbCo Nanocaps Assembly for Bit Pattern Media"*, Nanomaterials: Application & Properties (NAP-2012), September 17-22, 2012, Alushta, the Crimea, Ukraine
58. **V. A. Antohe***, A. Radu, L. Piraux and S. Matéfi-Tempfli, *"Highly Sensitive pH Detectors Based on Localized Nanowire Arrays"*, 4th International Symposium on Nanostructured Materials and Nanotechnology (ICACC 2010), January 24-29, 2010, Daytona Beach, Florida, USA
59. S. Antohe, I. Enculescu, C. Bețleagă, I. Arghir, **V. A. Antohe**, V. Covlea, A. Radu and L. Ion, *"Hybrid Nanostructured Organic/Inorganic Photovoltaic Cells"*, 4th International Symposium on Nanostructured Materials and Nanotechnology (ICACC 2010), January 24-29, 2010, Daytona Beach, Florida, USA
60. F. Abreu Araujo, **V. A. Antohe**, M. Darques, L. Piraux, A. V. Khvalkovskiy, K. Bouzehouane, J. Grollier, K. A. Zvezdin and V. Cros, *"Les Nano-Oscillateurs à Transfert de Spin dans les Nanofils Multicouches Co/Cu Electrodéposés"*, 23eme Entretiens Jacqes Cartier, Nanomagnetisme et Spintronique, November 24-25, 2010, Grenoble, France
61. **V. A. Antohe***, A. Radu, S. Yunus, M. Matéfi-Tempfli, A. Dutu, A. Vlad, S. Melinte, L. Piraux and S. Matéfi-Tempfli, *"Fabrication of Localized Nanowire Arrays used for Increasing the Sensitivity in pH Measuring Applications"*, 9th International Balkan Workshop on Applied Physics (IBWAP09), Biophysics, Environmental Physics, July 2008, Constanta, Romania

62. A. Vlad, M. Matéfi-Tempfli, **V. A. Antohe**, V. Bayot, L. Piraux, S. Melinte and S. Matéfi-Tempfli, *"Confined Growth of Nanowires within Supported Alumina Templates for Large Scale Circuit Integration"*, Nanostructured Materials – Science and Technology – Bio-active Nanomaterials, Congress on Materials Science and Engineering (MSE08), September 2008, Nürnberg, Germany

Poster Contributions 35 (see Table 4)

Table 4 – National and International Events with **Poster** Communication (*Presenting author; **Corresponding author)

Communication Events

1. I. Antohe, L. I. Toderașcu, O. Gherasim, **V. A. Antohe** and G. Socol, *"Copper Ions Detection in Water and Wheat Leaves Using a Fiber Optic Based Plasmonic Sensor"*, Virtual International Scientific Conference on "Applications of Chemistry in Nanosciences and Biomaterials Engineering" (NanoBioMat 2023 – Winter Edition), November 22-24, 2023, Bucharest, Romania **(Online)**
2. A. M. Popa, A. Stochioiu, L. I. Toderașcu, V. A. Antohe, G. Socol and I. ANTOHE, *"Detection of Ammonia gas using polymer based interdigited sensors"*, 6th International Conference on Emerging Technologies in Materials Engineering (EmergeMAT), Section III: New Materials for Environmental Protection, November 9-10, 2023, Grand Hotel Continental, Bucharest, Romania **(Hybrid)**
3. I. Antohe, L. I. Toderașcu, O. Gherasim, **V. A. Antohe** and G. Socol, *"Detection of Copper ions in water and wheat leaves using a portable plasmonic tool"*, 6th International Conference on Emerging Technologies in Materials Engineering (EmergeMAT), Section III: New Materials for Environmental Protection, November 9-10, 2023, Grand Hotel Continental, Bucharest, Romania **(Hybrid)**
4. A. Stochioiu, I. Antohe, L. I. Jinga, A. Mihăilescu, G. Popescu-Pelin, **V. A. Antohe** and G. Socol, *"Towards a sensitive and specific dual polymer-based hydrogen gas sensor"*, 21st International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2023), Engineering and Industrial Physics, July 11-14, 2023, Constanța, Romania
5. A. M. Popa, A. Stochioiu, L. I. Toderașcu, **V. A. Antohe**, G. Socol and I. Antohe, *"Highly-sensitive detection of ammonia using polymer based chemiresistive sensors"*, Applications of Chemistry in Nanosciences and Biomaterials Engineering (NanoBioMat 2023: summer session), June 28-30, 2023, Academy of Romanian Scientists (AOSR) abd University Politehnica of Bucharest (UPB), Bucharest, Romania
6. A. I. Radu, **V. A. Antohe**, S. Iftimie, A. Radu, M. Filipescu, L. Ion, M. Dinescu and Ş. Antohe, *"Organic Photovoltaic Structures Based on 1,10-Phenanthroline and 5,10,15,20-Tetra(4-pyridyl)-21H,23H Porphine Non-Fullerene Thin Films Acceptors"*, International Conference on Laser, Plasma and Radiation Science and Technology (ICLPR-ST), New trends in thin films and nanomaterials synthesis and processing (Topic 4), June 07-10, 2022, Bucharest – Parliament Palace, Romania
7. B. G. Șolomonea, L. I. Jinga, **V. A. Antohe**, G. Socol and I. Antohe, *"Highly-Sensitive Cadmium Detection in Water Samples Using a Portable Plasmonic Based Optical Fiber Sensor"*, International Conference on Laser, Plasma and Radiation Science and Technology (ICLPR-ST), Modern applications in environment, life sciences and energy (Topic 5), June 07-10, 2022, Bucharest – Parliament Palace, Romania
8. S. Iftimie, A. M. Răduță, A. M. Panaitescu, I. Radulian, C. Locovei, **V. A. Antohe**, A. Radu, L. Ion and Ș. Antohe, *"On the photovoltaic performances of CdTe/CdS heterojunction based devices – the effect of the transparent electrode"*, E-MRS 2022 Spring Meeting, Thin film chalcogenide photovoltaic materials (Symp. K), May 30-June 03, 2022, Strasbourg, France **(Online – Virtual Conference)**
9. A. Stochioiu, I. Antohe, L. I. Jinga, A. Mihăilescu, G. Popescu-Pelin, **V. A. Antohe** and G. Socol, *"Polymer based conductometric gas sensor for hydrogen detection"*, 2021 International Conference on Materials: Advanced and Emerging Materials (ICM-CN 2021), Session: Functional Ceramics, Thin Films and Crystalline Materials, November 21-24, 2021, Shenzhen, China **(Online)**
10. B. Șolomonea, I. Antohe, C. E. Staicu, **V. A. Antohe** and G. Socol, *"3D printing of alive spinach plant cell"*, 4th International Conference on Emerging Technologies in Materials Engineering (EmergeMAT), Section 1: Additive manufacturing, November 4-5, 2021, Bucharest, Romania **(Online)**
11. A. Stochioiu, I. Antohe, L. I. Jinga, A. Mihăilescu, G. Popescu-Pelin, **V. A. Antohe** and G. Socol, *"Hydrogen gas sensing using a polyaniline/gold interdigited sensor"*, 4th International Conference on Emerging Technologies in Materials Engineering (EmergeMAT), Section 2: Advanced materials and coatings for extreme conditions, November 4-5, 2021, Bucharest, Romania **(Online)**
12. A. M. Panaitescu, **V. A. Antohe**, S. Iftimie, A. M. Răduță, A. Radu, L. Ion and Ș. Antohe, *"Physical properties of ultra-thin photovoltaic structures based on A^{II}-B^{VI} compounds"*, 4th Autumn School on Physics of Advanced Materials (PAMS-4), September 24-30, 2021, Sant Feliu de Guixols, Spain **(Online)**
13. I. Antohe, **V. A. Antohe** and G. Socol, *"Development of a polyaniline-functionalized fiber optic – surface plasmon resonance (FO-SPR) transducer for environmental monitoring"*, 31st Anniversary World Congress on Biosensors, Organized by Elsevier / Biosensors & Bioelectronics, July 26-29, 2021 **(Online)**
14. A. M. Panaitescu, O. Toma, A. Radu, A. M. Răduță, D. Manica, L. Dan, L. Ion, Ș. Antohe and **V. A. Antohe****, *"Effect of the applied power on the structural, morphological, optical and electrical properties of RF-sputtered ZnSe thin films"*, E-MRS 2021 Spring Meeting, Thin film chalcogenide photovoltaic materials (Symp. A), May 31-June 4, 2021, Strasbourg, France **(Online – Virtual Conference)**
15. S. Iftimie, C. Locovei, A. G. Șovăială, O. D. Baban, A. M. Răduță, A. M. Panaitescu, A. Radu, **V. A. Antohe**, A. Dumitru, L. Ion and Ș. Antohe, *"A comparison between substrate and superstrate photovoltaic structures based on CdTe/CdS heterojunction"*, E-MRS 2021 Spring Meeting, Thin film chalcogenide photovoltaic materials (Symp. A), May 31-June 4, 2021, Strasbourg, France **(Online – Virtual Conference)**
16. S. Iftimie, N. Vasile, T. Acsente, C. Locovei, A. I. Radu, A. Radu, L. Ion, **V. A. Antohe**, G. Dinescu and Ș. Antohe, "On the physical properties of indium doped zinc oxide and aluminum doped zinc oxide thin films grown by radio-frequency magnetron sputtering", 22nd International Conference on Materials, Methods & Technologies, August 29 – September 1, 2020, Burgas, Bulgaria **(Online)**
17. I. Antohe, A. Mihăilescu, **V. A. Antohe**, G. Popescu-Pelin and G. Socol, *"Below ppm ammonia gas detection using and innovative polyaniline based conductometric sensor"*, 2nd World Congress on Biosensors and Bioelectronics, Optical Biosensors (Session 8), November 27-28, 2019, Singapore city, Singapore **(Online)**

18. A. Radu, C. Berbecaru, S. Iftimie, **V. A. Antohe**, L. Ion, S. Antohe and D. Dragoman, *"Graphene/ferroelectric HfO_2-based nanostructures for nanoelectronic applications"*, E-MRS 2019 Fall Meeting, Materials for nanoelectronics and nanophotonics (Symp. D), September 16-19, 2019, Warsaw, Poland

19. **V. A. Antohe***, S. Iftimie, A. Radu, L. Ion and D. Dragoman, "On the Characterization of Optical Slot Waveguides Fabricated by AFM Nano-lithography", 19th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2019), Materials Physics, July 16-19, 2019, Constanta, Romania

20. A. I. Călugăr, S. Iftimie, A. Radu, M. Dinescu, **V. A. Antohe**, L. Ion and Ș. Antohe, *"Study of the physical properties of P3HT, PCBM and Si:PCPDTBT thin films based photovoltaic structures"*, E-MRS 2019 Spring Meeting, Laser interactions with materials: from fundamentals to applications (Symp. V), May 27-31, 2019, Nice, France

21. A. M. Panaitescu, G. Chisulescu, A. Radu, Ș. Antohe, S. Iftimie, L. Ion and **V. A. Antohe****, "Novel Cu nanorod arrays for optoelectronic devices", 3rd Autumn School on Physics of Advanced Materials (PAMS-3), September 22-28, 2018, Technological Educational Institute (TEI) of Crete, Heraklion, Greece

22. S. Iftimie, A. Radu, **V. A. Antohe**, L. Ion and D. Dragoman, "Fabrication and characterization of slot waveguides for plasmonic logic gates", 12th International Conference on Physics of Advanced Materials (ICPAM-12), Nanostructures and Low Dimensional Systems (T6), September 22-28, 2018, Technological Educational Institute (TEI) of Crete, Heraklion, Greece

23. A. Radu, S. Iftimie, **V. A. Antohe**, C. Locovei, A. Dumitru, A. Călugăr, L. Ion and Ș. Antohe, "Study of the electrical behavior of composite thin films based photovoltaic structures", 12th International Conference on Physics of Advanced Materials (ICPAM-12), Polymer Materials and Composites (T8), September 22-28, 2018, Technological Educational Institute (TEI) of Crete, Heraklion, Greece

24. **V. A. Antohe***, S. Iftimie, A. Radu, L. Ion and D. Dragoman, *"On the Fabrication and Characterization of Slot Waveguides on Silicon and Aluminum"*, 18th International Balkan Workshop on Applied Physics (IBWAP18), Materials Physics, July 10-13, 2018, Constanța, Romania

25. S. Basov, D. Sallagoity, Q. Simon, P. M. Pereira de Sá, **V. A. Antohe**, V. Lazenka, S. Payan, K. Temst, M. Maglione, C. Elissalde and L. Piraux, *"Vertically Aligned $Ba_{0.80}Sr_{0.20}TiO_3$-$CoFe_2O_4$ Multiferroic Nanocable Arrays"*, PhD Students' Day, May 20, 2016, Louvain-la-Neuve, Belgium

26. D. Pérez, C. Petermann, G. Hamoir, S. Couet, J. Jochum, E. Menéndez, **V. A. Antohe**, T. Picot, K. Houben, V. Joly, M. Y. Hu, B. M. Leu, L. Piraux, A. Vantomme, K. Temst and M. J. Van Bael, *"Vibrational and superconducting properties of ^{119}Sn nanowires"*, Superconductivity on the Verge, Lorentz Center, July 27-31, 2015, Leiden, the Netherlands

27. T. Hauet, L. Piraux, S. K. Srivastava, **V. A. Antohe**, D. Lacour, M. Hehn, F. Montaigne, J. Schwenk, M. A. Marioni, H. J. Hug, O. Hovorka, A. Berger, S. Mangin and F. Abreu Araujo, *"Reversal mechanism, switching field distribution and dipolar frustrations in Co/Pt bit pattern media based on AAO auto-assembled hexagonal array of nanobumps"*, XVIe Colloque Louis Néel, September 23-26, 2014, Autrans, France

28. F. Abreu Araujo, **V. A. Antohe**, L. Gence, L. Piraux, A. D. Belanovsky, N. Locatelli and V. Cros, *"Spin torque vortex based oscillators produced by electrodeposition in nanoporous alumina templates"*, XVe Colloque Louis Néel, March 19-22, 2013, Tours, France

29. **V. A. Antohe*** and L. Piraux, *"Polyaniline-Functionalized Nanowire-Templated Micro Interdigital Capacitors for Sensitive pH Monitoring"*, PhD Students' Day, May 27, 2011, Louvain-la-Neuve, Belgium

30. **V. A. Antohe*** and L. Piraux, *"Polyaniline-Functionalized Nanowire-Templated Micro-Interdigital Capacitors for Highly-Sensitive pH Detection"*, E-MRS 2011 Spring Meeting, Special invited poster session: the "face-to-face" invited speakers, May 9-13, 2011, Nice, France

31. **V. A. Antohe***, A. Radu, M. Matéfi-Tempfli, A. Attout, S. Yunus, P. Bertrand, C. A. Dutu, S. Melinte, L. Piraux and S. Matéfi-Tempfli, *"Nanowire-Templated Microelectrodes, for Highly-Sensitive pH Detecting Applications"*, 6th International Conference on Nanosciences & Nanotechnologies (NN09), July 13-15, 2009, Thessaloniki, Greece

32. **V. A. Antohe***, A. Radu, M. Matéfi-Tempfli, A. Attout, S. Yunus, P. Bertrand, C. A. Dutu, S. Melinte, L. Piraux and S. Matéfi-Tempfli, *"Nanowire-Templated Microelectrodes, for Highly-Sensitive pH Detecting Devices"*, 10th International Balkan Workshop on Applied Physics (IBWAP10), July 6-8, 2009, Constanta, Romania

33. **V. A. Antohe***, A. Dutu, A. Vlad, M. Matéfi-Tempfli, S. Yunus, L. Piraux and S. Matéfi-Tempfli, *"Fabrication of Localized Nanowires Arrays Used for Sensing Applications, by Combining Electrochemical Synthesis with Lithographic Techniques"*, Nanostructured Materials – Science and Technology – Bio-active Nanomaterials, Congress on Materials Science and Engineering (MSE08), September 2008, Nürnberg, Germany

34. **V. A. Antohe***, S. Matéfi-Tempfli, A. Vlad, D. Serban, M. Matéfi-Tempfli, S. Melinte and L. Piraux, *"Nanowire Arrays Used For Biosensors with High Active Surfaces"*, Leuven Nano-Conference (LNC'07), June 5-6, 2007, Leuven, Belgium

35. A. Vlad, M. Matéfi-Tempfli, **V. A. Antohe**, S. Faniel, A. Crahay, N. Reckinger, B. Olbrechts, V. Bayot, L. Piraux, S. Matéfi-Tempfli and S. Melinte, *"Controlled growth of single nanowires within a supported alumina template: towards circuit integration"*, E-MRS 2007 Spring Meeting, May 28 – 1 June, 2007, Strasbourg, France

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