LISTA COMPLETĂ DE LUCRĂRI

(1) lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante

1. Marius Andrei Olariu, Tudor Alexandru Filip, Catalina Anisoara Peptu and **Ina Turcan**, *Screen-printed interdigitated microelectrodes employment in dielectrophoretic manipulation of MWCNTs*, Microchim Acta 2023, 190, 453, ISSN: 0026-3672. **F.I. = 5,7 (Q1) (autor corespondent)**
   https://doi.org/10.1007/s00604-023-06023-3
2. Marius Andrei Olariu, Catalin Tucureanu, Tudor Alexandru Filip, Iuliana Caras, Aurora Salageanu, Valentin Vasile, Marioara Avram, Bianca Tincu, and **Ina Turcan**, *HT-29 Colon Cancer Cell Electromanipulation and Assessment Based on Their Electrical Properties*, Micromachines 2022, 13, 1833, ISSN: 2072-666X. **F.I. = 3,4 (Q2) (autor corespondent)**
   https://doi.org/10.3390/mi13111833
3. **Ina Turcan**, Iuliana Caras, Thomas Gabriel Schreiner, Catalin Tucureanu, Aurora Salageanu, Valentin Vasile, Marioara Avram, Bianca Tincu, and Marius Andrei Olariu, *Dielectrophoretic and Electrical Impedance Differentiation of Cancerous Cells Based on Biophysical Phenotype*, Biosensors 2021, 11, 401, ISSN: 2079-6374. **F.I. = 5,743 (Q1)**
   https://doi.org/10.3390/bios11100401
4. Tiberiu Roman, Daniel Ghercă, Adrian-Iulian Borhan, Marian Grigoraș, George Stoian, Nicoleta Lupu, **Ina Turcan**, Nicanor Cimpoesu, Bogdan Istrate, Ioana Radu, Raluca-Ștefania Dănilă, Aurel Pui, *Nanostructured quaternary $Ni_{1-x}Cu_xFe_{2-y}Ce_yO_4$ complex system: Cerium content and copper substitution dependence of cation distribution and magnetic-electric properties in spinel ferrites*, Ceramics International, Volume 47, 2021, 13,18177-18187, ISSN: 0272-8842. **F.I. = 5,532 (Q1)**
   https://doi.org/10.1016/j.ceramint.2021.03.136
5. Abd Elmadjid, Khiat, Felicia Gheorghiu, Mokhtar Zerdali, **Ina Turcan**, and Saad Hamzaoui, *Structural, Magnetic, Dielectric and Piezoelectric Properties of Multiferroic $PbTi_{1-x}Fe_xO_{3-\delta}$ Ceramics*, Materials 2021, 14, 927, ISSN: 1996-1944. **F.I. = 3,748 (Q1)**
   https://doi.org/10.3390/ma14040927
6. **Ina Turcan** and Marius Andrei Olariu, *Dielectrophoretic Manipulation of Cancer Cells and Their Electrical Characterization*, ACS Combinatorial Science 2020, 22 (11), 554-578, ISSN: 2156-8944. **F.I. = 3,784 (Q1)**
   https://doi.org/10.1021/acscombsci.0c00109
7. Vlad Alexandru Lukacs, **Ina Turcan**, Leontin Padurariu, Lavinia Curecheriu, Adrian Cernescu, George Stoian, Cristina Elena Ciomaga, Florin Tufescu, Nicoleta Lupu, Liliana Mitoseriu, *Nonlinear dielectric properties of $BaTiO_3$ - Silver composites: The role of microstructure*, Journal of Alloys and Compounds, Volume 817, 2020, 153336, ISSN: 0925-8388. **F.I. = 5,316 (Q1) (prim autor, specificat în articol)**
   https://doi.org/10.1016/j.jallcom.2019.153336
8. Cristina E. Ciomaga, Mirela Airimioaei, **Ina Turcan**, Alexandru V. Lukacs, Sorin Tascu, Marian Grigoras, Nicoleta Lupu, Juras Banys, Liliana Mitoseriu, *Functional properties of*

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percolative $CoFe_2O_4$-$PbTiO_3$ composite ceramics, Journal of Alloys and Compounds, Volume 775, 2019, 90-99, ISSN: 0925-8388. **F.I. = 4,65 (Q1)**
https://doi.org/10.1016/j.jallcom.2018.10.088

9. **Ina Turcan**, Vlad Alexandru Lukacs, Lavinia Curecheriu, Leontin Padurariu, Cristina Elena Ciomaga, Mirela Airimioaei, George Stoian, Nicoleta Lupu, Liliana Mitoseriu, *Microstructure and dielectric properties of Ag-$BaTiO_3$ composite ceramics*, Journal of the European Ceramic Society, Volume 38, 16, 2018, 5420-5429, ISSN: 0955-2219. **F.I. = 4,029 (Top 1)**
https://doi.org/10.1016/j.jeurceramsoc.2018.08.002
10. Oana Condurache, **Ina Turcan**, Lavinia Curecheriu, Cristina Ciomaga, Petronel Postolache, Gabriela Ciobanu, Liliana Mitoseriu, *Towards novel functional properties by interface reaction in mixtures of $BaTiO_3$-Fe_2O_3 composite ceramics*, Ceramics International, Volume 43, 1, 2017, 1098-1105, ISSN: 0272-8842. **F.I. = 3,057 (Q1)**
https://doi.org/10.1016/j.ceramint.2016.10.047

(2) teza de doctorat

1. *Ceramici compozite cu proprietăți multifuncționale*, 2021, 154 pag., Universitatea "Alexandru Ioan Cuza" din Iași, coordonator științific: Prof. univ. dr. Liliana Mitoșeriu

(3) brevete de invenție și alte titluri de proprietate industrială

1. Olariu Marius Andrei, **Turcan Ina**, Scarlatache Vlad-Andrei, *Platformă microfluidică și procedeu de electromanipulare și caracterizare a celulelor canceroase pe baza proprietăților electrice*, Cerere de brevet nr. A/00598/30.09.2021 depusă la OSIM
https://www.osim.ro/images/Publicatii/Inventii/2023/inv_03_2023.pdf

(4) articole/studii in extenso, publicate în reviste cotate ISI cu factor de impact

1. Marius Andrei Olariu, Tudor Alexandru Filip, Catalina Anisoara Peptu and **Ina Turcan**, *Screen-printed interdigitated microelectrodes employment in dielectrophoretic manipulation of MWCNTs*, Microchim Acta 2023, 190, 453, ISSN: 0026-3672 (WOS:001087886700001). F.I. = 5,7 (Q1) (autor corespondent)
https://doi.org/10.1007/s00604-023-06023-3
2. Diana Serbezeanu, Corneliu Hamciuc, Tăchiță Vlad-Bubulac, Alina-Mirela Ipate, Gabriela Lisa, **Ina Turcan**, Marius Andrei Olariu, Ion Anghel, and Dana Maria Preda, *Flame-Resistant Poly(vinyl alcohol) Composites with Improved Ionic Conductivity*, Membranes 2023, 13, 636, ISSN: 2077-0375 (WOS:001038925500001). F.I. = 4,2 (Q2)
https://doi.org/10.3390/membranes13070636
3. Marius Andrei Olariu, Catalin Tucureanu, Tudor Alexandru Filip, Iuliana Caras, Aurora Salageanu, Valentin Vasile, Marioara Avram, Bianca Tincu, and **Ina Turcan**, *HT-29 Colon Cancer Cell Electromanipulation and Assessment Based on Their Electrical Properties*, Micromachines 2022, 13, 1833, ISSN: 2072-666X (WOS:000881209100001). F.I. = 3,4 (Q2) (autor corespondent)
https://doi.org/10.3390/mi13111833

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4. 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 (WOS:000800442100007). F.I. = 2,6 (Q3) https://doi.org/10.1016/j.poly.2022.115893
5. Schreiner, Thomas Gabriel, **Ina Turcan**, Marius Andrei Olariu, Romeo Cristian Ciobanu, and Maricel Adam, *Liquid Biopsy and Dielectrophoretic Analysis—Complementary Methods in Skin Cancer Monitoring*, Appl. Sci. 2022, 12, 3366, ISSN: 2076-3417 (WOS:000782006000001). F.I. = 2,7 (Q3) https://doi.org/10.3390/app12073366
6. **Ina Turcan**, Iuliana Caras, Thomas Gabriel Schreiner, Catalin Tucureanu, Aurora Salageanu, Valentin Vasile, Marioara Avram, Bianca Tincu, and Marius Andrei Olariu, *Dielectrophoretic and Electrical Impedance Differentiation of Cancerous Cells Based on Biophysical Phenotype*, Biosensors 2021, 11, 401, ISSN: 2079-6374 (WOS:000714126300001). F.I. = 5,743 (Q1) https://doi.org/10.3390/bios11100401
7. Tiberiu Roman, Daniel Ghercă, Adrian-Iulian Borhan, Marian Grigoraș, George Stoian, Nicoleta Lupu, **Ina Turcan**, Nicanor Cimpoesu, Bogdan Istrate, Ioana Radu, Raluca-Ștefania Dănilă, Aurel Pui, *Nanostructured quaternary Ni1-xCuxFe2-yCeyO4 complex system: Cerium content and copper substitution dependence of cation distribution and magnetic-electric properties in spinel ferrites*, Ceramics International, Volume 47, 2021, 13,18177-18187, ISSN: 0272-8842 (WOS:000656553200005). F.I. = 5,532 (Q1) https://doi.org/10.1016/j.ceramint.2021.03.136
8. Abd Elmadjid, Khiat, Felicia Gheorghiu, Mokhtar Zerdali, **Ina Turcan**, and Saad Hamzaoui, *Structural, Magnetic, Dielectric and Piezoelectric Properties of Multiferroic PbTi1−xFexO3−δ Ceramics*, Materials 2021, 14, 927, ISSN: 1996-1944 (WOS:000624084700001). F.I. = 3,748 (Q1) https://doi.org/10.3390/ma14040927
9. **Ina Turcan** and Marius Andrei Olariu, *Dielectrophoretic Manipulation of Cancer Cells and Their Electrical Characterization*, ACS Combinatorial Science 2020, 22 (11), 554-578, ISSN: 2156-8944 (WOS:000592223400002). F.I. = 3,784 (Q1) https://doi.org/10.1021/acscombsci.0c00109
10. Vlad Alexandru Lukacs, **Ina Turcan**, Leontin Padurariu, Lavinia Curecheriu, Adrian Cernescu, George Stoian, Cristina Elena Ciomaga, Florin Tufescu, Nicoleta Lupu, Liliana Mitoseriu, *Nonlinear dielectric properties of BaTiO3 - Silver composites: The role of microstructure*, Journal of Alloys and Compounds, Volume 817, 2020, 153336, ISSN: 0925-8388 (WOS:000506166400120). F.I. = 5,316 (Q1) (prim autor, specificat în articol) https://doi.org/10.1016/j.jallcom.2019.153336

11. Cristina E. Ciomaga, Mirela Airimioaei, **Ina Turcan**, Alexandru V. Lukacs, Sorin Tascu, Marian Grigoras, Nicoleta Lupu, Juras Banys, Liliana Mitoseriu, *Functional properties of percolative CoFe2O4-PbTiO3 composite ceramics*, Journal of Alloys and Compounds, Volume 775, 2019, 90-99, ISSN: 0925-8388 (WOS:000450981100011). F.I. = 4,65 (Q1) https://doi.org/10.1016/j.jallcom.2018.10.088
12. **Ina Turcan**, Vlad Alexandru Lukacs, Lavinia Curecheriu, Leontin Padurariu, Cristina Elena Ciomaga, Mirela Airimioaei, George Stoian, Nicoleta Lupu, Liliana Mitoseriu, *Microstructure and dielectric properties of Ag-BaTiO3 composite ceramics*, Journal of the European Ceramic Society, Volume 38, 16, 2018, 5420-5429, ISSN: 0955-2219 (WOS:000447117700019). F.I. = 4,029 (Q1) https://doi.org/10.1016/j.jeurceramsoc.2018.08.002
13. Oana Condurache, **Ina Turcan**, Lavinia Curecheriu, Cristina Ciomaga, Petronel Postolache, Gabriela Ciobanu, Liliana Mitoseriu, *Towards novel functional properties by interface reaction in mixtures of BaTiO3-Fe2O3 composite ceramics*, Ceramics International, Volume 43, 1, 2017, 1098-1105, ISSN: 0272-8842 (WOS:000390737100026). F.I. = 3,057 (Q1) https://doi.org/10.1016/j.ceramint.2016.10.047

(5) publicații in extenso, apărute în lucrări/volume ale principalelor conferințe internaționale de specialitate

1. Tudor Alexandru Filip, **Ina Turcan**, Vlad-Andrei A Scarlatache, Alin Dragomir, Marius Andrei Olariu, *Electric Field Numerical Modeling and Simulation of V-Shaped Interdigitated Microelectrodes*, 2022 International Conference on Engineering and Emerging Technologies (ICEET), Kuala Lumpur, Malaysia, 2022, pp. 1-4 https://ieeexplore.ieee.org/document/10007144

(6) alte lucrări și contribuții științifice

a) Participări la conferințe internaționale

1. Tudor-Alexandru Filip, **Ina Turcan**, Cosmin-Constantin Simota, Dragos Astanei, Marius Andrei Olariu, *Fabrication and preliminary evaluation of flexible screen-printed resistive voltage divider*, 9th International Conference on Engineering and Emerging Technologies (ICEET 2023), Octombrie 2023, Istanbul, Turcia (prezentare poster)
2. Tudor Alexandru Filip, TăchițăVlad-Bubulac, **Ina Turcan**, Marius Olariu, *Dielectrophoretic manipulation of MXenes flakes*, The Twenty-Fourth Annual Conference Yucomat 2023, 4-8 Septembrie 2023, Herceg Novi, Muntenegro (prezentare poster)
3. **Ina Turcan**, Tudor-Alexandru Filip and Marius Andrei Olariu, *Screen-printing interdigitated microelectrodes for dielectrophoretic alignment MWCNT-based flexible gas sensors*, 2nd International Conference on Sustainable Chemical &Environmental Engineering, Iunie 2023, Limassol, Cipru (prezentare poster)
4. Tudor-Alexandru Filip, C. Hamciuc, TăchițăVlad-Bubulac, Ina Turcan, M. Olariu, *Dielectric properties of polyvinyl alcohol composites with improved ionic conductivity*, 23rd

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Conference on Material Science, YUCOMAT 2022, Herceg Novi, Montenegro (prezentare poster)

5. **Ina Turcan**, Tudor-Alexandru Filip and Marius Andrei Olariu, *Optimal geometrical conceptualization of IDEs for biosensors development based on multiphysics modeling and simulation*, 14th International Conference on Physics of Advanced Materials (ICPAM-14), 8-15 Septembrie 2022, Dubrovnik, Croatia (prezentare poster)
6. Tudor-Alexandru Filip, **Ina Turcan**, Vlad Andrei Scarlatache, Marius Andrei Olariu, *In-depth critical review on importance of optimal design parametrization of CE vs. WE dimensional ratio*, 5th International Conference of the Doctoral School, 18 – 20 mai 2022, "Gheorghe Asachi" Technical University of Iasi, Romania (prezentare orală)
7. **Ina Turcan**, Marius Olariu, *Dielectrophoretic manipulation and electrical characterization of cancer cells*, IEEE Magnetics Society Chapter of the Romania Section, 21-22 iulie 2021, Iasi, România (prezentare poster)
8. Thomas Schreiner, **Ina Turcan**, Marius Olariu, "Evaluation of dielectric parameters of biological cells on the basis of broadband dielectric spectroscopy", 4th International Conference of the Doctoral School, May 19 - 21, 2021, "Gheorghe Asachi" Technical University of Iasi, Romania (prezentare orală)
9. **Ina Turcan**, Catalin Tucureanu, Iuliana Caras, Nita I, Valentin Vasile, Aurora Sălăgeanu, Olariu Marius Andrei, *Optimizing dielectrophoresis for circulating tumor cells analysis: influence of suspending medium*, 2nd World Congress on Biosensors and Bioelectronics, Biosensors 2019, 27November 27-28, Singapore City (prezentare poster)
10. **Ina Turcan**, Lavinia Curecheriu, Leontin Padurariu and Liliana Mitoseriu, *Ag-$BaTiO_3$ composite ceramics with multiple percolative behavior*, 13th Conference for Young Sciences in Ceramics (CYSC-2019), 16-19 Octombrie 2019, Novi Sad, Serbia (prezentare orală);
11. Leontin Padurariu, **Ina Turcan**, Alexandru Lukacs, Adrian Cernescu, Lavinia Curecheriu, Cristina Ciomaga, George Stoian, Nicoleta Lupu, Liliana Mitoseriu, *The role of composition on the dielectric and ferroelectric properties of Ag-$BaTiO_3$ composites: experiment and modeling*, Joint ISAF-ICE-EMF-IWPM-PFM Conference - 2019 f2cπ2, 14-19 iulie 2019, Lausanne, Elveția (prezentare poster)
12. **Ina Turcan**, Vlad Alexandru Lukacs, Lavinia Curecheriu, Leontin Padurariu, Cristina Elena Ciomaga, Liliana Mitoseriu, *Exploiting the critical grain size and silver inclusions for enhancing permittivity in $BaTiO_3$ ceramics*, 16th European Inter-Regional Conference on Ceramics (CIEC16), 09-11 septembrie 2018, Torino, Italia (prezentare orală)
13. Liliana Mitoseriu, Leontin Padurariu, Lavinia Curecheriu, Cristina Ciomaga, **Ina Turcan**, *Local field engineering for tailoring electrical properties in ferroelectric-metallic particles composites*, Electroceramics XVI, Hasselt University, Belgia, 9-12 iulie 2018 (prezentare orală)
14. **Ina Turcan**, Vlad Alexandru Lukacs, Lavinia Curecheriu and Liliana Mitoseriu, *Enhanced permittivity in $BaTiO_3$ composites as result of silver addition and critical grain size ~1μm*,

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European Conference on Applications of Polar Dielectrics (ECAPD-2018), 25-28 iunie 2018, Moscova, Federația Rusă (prezentare orală)

15. Vlad-Alexandru Lukacs, **Ina Turcan**, Mirela Airimioaei, Lavinia Curecheriu, Liliana Mitoseriu, *Grain size effect on dielectric properties of submicron ranged $BaTiO_3$ ceramics*, European Conference on Applications of Polar Dielectrics (ECAPD-2018), 25-28 iunie 2018, Moscova, Federația Rusă (prezentare poster)
16. Lavinia Curecheriu, **Ina Turcan**, Vlad Alexandru Lukacs, Leontin Padurariu, Cristina Elena Ciomaga, George Stoian, Nicoleta Lupu and Liliana Mitoseriu, *Preparation and dielectric properties of Ag-$BaTiO_3$ composite ceramics*, 7th International Congress on Ceramics (ICC7-2018), 17-21 iunie 2018, Foz do Iguaçu, Brazilia (prezentare poster)
17. **Ina Turcan**, Vlad Alexandru Lukacs, Lavinia Curecheriu, Cristina Ciomaga, Petronel Postolache, Liliana Mitoseriu, S. Balciunas and Juras Banys, *Novel functional properties of BaTiO3–ferrite magnetoelectric composites*, 12th Conference for Young Sciences in Ceramics (CYSC-2017), 18-21 octombrie 2017, Novi Sad, Serbia (prezentare orală)
18. **Ina Turcan**, Vlad Alexandru Lukacs, Lavinia Curecheriu, Cristina Ciomaga, Petronel Postolache, Liliana Mitoseriu, S. Balciunas and Juras Banys, *Towards novel functional properties by interface reaction in $BaTiO_3$–ferrite magnetoelectric composites*, The 2017 TO-BE Fall Meeting Towards oxide-based electronics, 11- 13 septembrie 2017, Riga, Letonia (prezentare poster)

b) Participări la conferințe naționale

1. Lidia Amarandi, Adina Breaban, Andrei Ceban, **Ina Turcan**, Cristina Ciomaga, Sorin Tascu, Lavinia Curecheriu, *Prepararea si investigarea proprietăților dielectrice și feroelectrice ale ceramicelor nanocompozite de Ag-$BaTiO_3$*, Conferința Națională Fizica și Tehnologiile Educaționale Moderne, ediția XLVIII (FTEM 2019), 25 mai 2019, Iași, Romania (prezentare orală)
2. **Ina Turcan**, Vlad-Alexandru Lukacs, Lavinia Curecheriu, Leontin Padurariu, Cristina Elena Ciomaga, Liliana Mitoseriu, *Effect of silver filler on the sintering behavior and dielectric properties of $BaTiO_3$*, Conferința Națională Fizica și Tehnologiile Educaționale Moderne, ediția XLVII (FTEM 2018), 19 mai 2018, Iași, Romania (prezentare poster)
3. Vlad-Alexandru Lukacs, Mirela Airimioaei, Lavinia Curecheriu, **Ina Turcan**, Liliana Mitoseriu, *Grain size influence on dielectric properties of dense $BaTiO_3$ ceramics*, Conferința Națională Fizica și Tehnologiile Educaționale Moderne, ediția XLVII (FTEM 2018), 19 mai 2018, Iași, Romania (prezentare orală)
4. **Ina Turcan**, Lavinia Petronela Curecheriu, Liliana Mitoșeriu, *Efectul microstructurii asupra proprietăților funcționale ale compozitului ceramic Ag-$BaTiO_3$*, Pentagonul facultăților de fizică 2017, 24-28 iulie 2017, Oradea, România (prezentare orală – Premiul II)
5. **Ina Turcan**, Vlad-Alexandru Lukacs, Lavinia Curecheriu, Liliana Mitoseriu, Juras Banys, "Functional properties of BaTiO3–ferrite multiferroic composite ceramics", Conferința Națională Fizica și Tehnologiile Educaționale Moderne, 20 mai 2017, Iași, România (prezentare poster)

6. **Ina Turcan**, Liliana Mitoseriu and Juras Banys, *Study of functional properties of Fe_2O_3-$BaTiO_3$ multiferroic composite ceramics*, 6th National Conference of Applied Physics, 26-27 noiembrie 2016, Iași, România (prezentare poster);
7. **Ina Ţurcan**, Vlad-Alexandru Lukacs, Liliana Mitoşeriu şi Juras Banys, *Studiul proprietăţilor funcţionale ale compozitelor multiferoice Fe_2O_3-$BaTiO_3$*, Sesiune de comunicări științifice studențești – FARPHYS 2016, 29 octombrie 2016, Iași, România (prezentare poster)
8. Roxana Stanculescu, **Ina Turcan**, Carmen Galassi și Liliana Mitoseriu, *Temperature dependence of the dielectric properties in porous ceramics*, Conferinţa Fizica şi Tehnologiile Educaţionale Moderne, organizată de Facultatea de Fizică, Universitatea "Alexandru Ioan Cuza " Iaşi, România, 16 – 17 mai 2014 (prezentare orală– Premiul I).

10. 01. 2024

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