



Mihai S. GABOR



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ORCID: [0000-0003-0888-0762](https://orcid.org/0000-0003-0888-0762) | **RID:** [B-8070-2012](https://rid.org/B-8070-2012) | **Scopus Author ID:** [57188785992](https://scopus.org/57188785992)

Work address:

Physics and Chemistry Department, Technical University of Cluj-Napoca, Str. Memorandumului No. 28 RO-400114 Cluj-Napoca, Romania.

● WORK EXPERIENCE

2009 – PRESENT

Assistant Professor, Lecturer, Associate Professor

Department of Physics and Chemistry, Faculty of Materials and Environmental Engineering, Technical University of Cluj-Napoca, Str. Memorandumului No. 28 RO-400114 Cluj-Napoca, Romania. Description: teaching and research activities, supervising graduate and postgraduate student research activities. In charge of the spintronics and spin-orbitronics research direction of the Center for Superconductivity Spintronics and Surface Science (C4S) from TUCN (<https://c4s.utcluj.ro/spintronics.html>).

● EDUCATION AND TRAINING

2011

Ph.D. in Physics and Materials Engineering

Joint Thesis, Awarded by the "Henri Poincaré" University (Physics), Nancy, France and the Technical University of Cluj-Napoca (Materials Engineering), Romania; Thesis title: "[Spintronics with alternative materials: full-Heusler alloys and dilute magnetic oxides](#)"

2007

M.Sc. in Solid State Physics

Awarded by "Babeş-Bolyai" University, Cluj-Napoca, Romania

2006

M.Sc. in Materials and Nanostructures Physics

Awarded by "Joseph Fourier", University, Grenoble, France

2005

B.Sc. in Physics

Awarded by "Babeş-Bolyai" University, Cluj-Napoca, Romania

● RESEARCH INTERSHIPS AND TRAINING COURSES

2005-2011

Research internships for approx. 24 months

(1) - ENEA, Frascati, Rome, Italy (research internship - Pulsed Laser Deposition of oxide multilayers, low temperature magnetic and magneto-transport measurements); (2) - CEA-SPINTEC, Grenoble, France (master internship – numerical modeling of exchange bias in nanostructures); (3) -LPM, University "Henri Poincaré" Nancy, France (doctoral thesis research internships – growth of thin films and heterostructures by molecular beam epitaxy, magneto-electrical characterizations, numerical methods).

Training courses

(1) - Bruker AXS, Karlsruhe, Germany (High Resolution and Powder X-ray diffraction, Stress and texture). (2) - UJF-INPG, Grenoble, France, Experimental methods for nanotechnologies. (3) - Summer schools: European School of Magnetism ESM 2007, Cluj-Napoca; European School of Magnetism ESM 2009, Timisoara, Romania.

● PERSONAL SKILLS

Language skills

Mother tongue(s): **Romanian**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
English	B2	B2	B2	B2	B2
French	B2	B2	B2	B2	B2

Communication skills

Good communication skills in both Romanian and English gained through my teaching experience, participation in national and European research projects and participation at international conferences and workshops.

Management skills

Good management skills gained by managing four research projects as director.

Research skills

Thin films and thin films heterostructures growth: DC/RF magnetron sputtering, pulsed laser ablation (PLD), molecular beam epitaxy (MBE). **Materials characterization:** Structural properties (X-ray diffraction techniques); Morphological properties of thin films (AFM, X-ray reflectometry), Magnetic static (MFM, VSM, SQUID) and dynamic (FMR) properties, Magneto-electric (R(H,T)) and magneto-optic (MOKE) characterizations. **UV lithography and related processes:** UV lithography mask design, UV lithography of thin films. Automation of electrical measurement processes using LabVIEW. Analytical and numerical methods for modelling magnetism and transport in spintronic structures. Micromagnetic simulations.

Digital skills

LabView visual programming language and Python, C/C++ programming in Linux/Windows, Micromagnetic Simulations in MuMax3, numeric/symbolic calculations in Matlab. Design using Autodesk Fusion 360. LaTeX and Microsoft Office™.

● ADDITIONAL INFORMATION

Research interests

Spintronic and spin-orbitronic materials and devices; Chiral magnetic domain-wall and skyrmion logic devices.

Research projects director

- (2025-2028) - PN-IV-P1-PCE-2023-1548 - nr. 15PCE/2025 – Gate-voltage controlled chiral magnetic domain wall spinorbitronic devices (STRIVE), Financing organization MRI-UEFISCDI, Val. 240.000 Euro.
- (2021-2024) - PN-III-P4-ID-PCE - nr. 182/2021 - Spin-orbit torque driven field-free artificial synapses and neurons (SPINSYNE), Financing organization MRI-UEFISCDI, Val. 250.000 Euro. <https://c4s.utcluj.ro/SPINSYNE/spinsyne.html>
- (2018-2020) - PN-III-P1-1.1-TE nr. 24/02.05.2018 -Spin-orbitronic devices for non-volatile magnetic memories, Financing

organization MRI-UEFISCDI, Val. 100.000 Euro. <https://c4s.utcluj.ro/SOTMEM/sotmem.html>

4. (2015-2017) - PN-II-RU-TE nr. 255/01.10.2015 - Advanced spintronic devices for communication and data storage technologies based on Heusler compounds, Financing organization MRI-UEFISCDI, Val. 125.000 Euro. <https://c4s.utcluj.ro/SPINCOD/spincod.html>
5. (2014-2015) - TUCN - Research grant, TE-29317/2014 - Advanced materials with applications for spintronic devices for information storage technologies, Financing organization TUCN, Val. 7000 Euro.
6. (2008) EURATOM-ENEA, Rome, Italy Research fellowship (3 months) - Growth and characterization of magnetic multilayers structures, Val. 3000 Euro.

Publications

- Articles: 97, Web of Science RID: [B-8070-2012](#), number of citations: 1712, **h-index: 23**; SCOPUS Author ID: [57188785992](#), number of citations: 1783, **h-index: 24**; [Google Scholar](#), number of citations: 2236, **h-index: 27**.
- Patents: M. Năsui, T. Petrișor Jr, R.B. Moș, A. Mesaroș, M. S. Gabor, L. Ciontea, T. Petrișor, Chemical method for obtaining epitaxial films of lanthanum manganite doped with strontium - patent no. RO 131325 B1; M. Năsui, R.B. Sonher, M.S. Gabor, L. Ciontea, A. Mesaroș, Chemical process for obtaining thin films with spinel structure of GaFe_2O_4 - patent application no. A2024/00540.
- Textbooks: Physics I, M.S. Gabor UTPRESS (2025); Physics II, M.S. Gabor UTPRESS (2025).
- Books: Micro and nanotechnologies - Thin film fabrication and characterization techniques for applications in microelectronics, C. Tiușan, T. Petrișor Jr., M. Gabor UTPRESS (2013); Quantum mechanics through applications, C. Tiușan, M. Gabor, T. Petrișor Jr. UTPRESS (2013);
- Book chapter: Characterization of Complex Spintronic and Superconducting Structures by Atomic Force Microscopy Techniques, L. Ciontea, M. S. Gabor, T. Petrișor Jr., T. Ristoiu, C. Tiușan, T. Petrișor in Scanning Probe Microscopy – Physical Property Characterization at Nanoscale, InTech Europe, (2012).

Invited lectures

Thin 11th International Conference On Physics Of Advanced Materials (ICPAM-11) 8-14 September 2016, Cluj-Napoca, Romania; 15-17 June 2017 Spin Currents and Spin-Orbit Torques Workshop, SPINTEC, CEA-INAC / CNRS / University Grenoble Alpes, Grenoble, France; 23-25.08.2022 Spins, waves and interactions, TU Desden, Greifswald, Germany.

Honors / awards / other

2014 – Excellence in research prize awarded by TUCN. 2016 – Invited professor University Paris 13, Paris, France. 2017 – Invited researcher at SPINTEC-CEA, Grenoble, France. 2017 – Jury member of a PhD thesis University Grenoble Alpes, Grenoble, France. 2019 – Jury member of a PhD thesis University Grenoble Alpes, Grenoble, France.

Reviewer

Reviewer for the following journals: Nature Communications, Advanced Materials, Advanced Science, Advanced Electronic Materials, Physical Review Letters, Physical Review B, Physical Review Materials, Applied Physics Letters, Journal of Physics D: Applied Physics, Journal of Applied Physics, Nanotechnology, Small, Journal of Magnetism and Magnetic Materials etc.

Key expert for the following funding agencies: the National Science Center of Poland and the Czech Science Foundation; Member of the International Technical Program Committee for EUROSENSORS conferences.

Listă Lucrări

I - Listă articole ISI publicate

1. Xu Z., Marius P.L., Huxter W., Herb K., Abendroth J. M., and Bouzehouane K., Boule O., **Gabor M.S.** Larranaga J.U., Morales A., Rhen-sius J., Puebla-Hellmann G., Degen C. L., "*Minimizing Sensor-Sample Distances in Scanning Nitrogen-Vacancy Magnetometry*," *ACS Nano* **19**, 8255–8265 (2024) [IF = 15.8] <https://doi.org/10.1021/acsnano.4c18460>
2. E.M. Ștețco, T.Petrisor. Jr., O.A. Pop, M. Belmeguenai, I.M. Miron, **M.S. Gabor***, "*Diode and Selective Routing Functionalities Controlled by Geometry in Current-Induced Spin–Orbit Torque Driven Magnetic Domain Wall Devices*," *Nano Lett.* **24**, 13991–13997 (2024) [IF = 9.6] <https://doi.org/10.1021/acs.nanolett.4c03339>
3. D. Ourdani, N. Challab, Y. Roussigné, S.M. Chérif, **M.S. Gabor***, M. Belmeguenai, "*Temperature dependence and capping and underlayer layers effect on the interfacial magnetic properties of Ir/Fe- or Pt/Fe-based systems*," *Phys. Rev. B* **109**, 214426 (2024) [IF = 3.2] <https://doi.org/10.1103/PhysRevB.109.214426>
4. **M.S. Gabor***, M. Belmeguenai, I.M. Miron, "*Bulk and interface spin-orbit torques in Pt/Co/MgO thin film structures*," *Phys. Rev. B* **109**, 104407 (2024) [IF = 3.2] <https://doi.org/10.1103/PhysRevB.109.104407>
5. D. Ourdani, Y. Roussigné, S.M. Chérif, **M.S. Gabor***, M. Bel-meguenai, "*Thickness dependence of magnetic properties of Ir / FeV - based systems*," *Phys. Rev. Mater.* **7**, 034408 (2023) [IF = 3.1] <https://doi.org/10.1103/PhysRevMaterials.7.034408>
6. N. Challab, Y. Roussigné, S.M. Chérif, **M.S. Gabor**, M. Bel-meguenai, "*Magnetic Damping and Dzyaloshinskii–Moriya Interactions in*

- Pt/Co₂FeAl/MgO Systems Grown on Si and MgO Substrates*,” *Materials* **16**, 1388 (2023) [IF = 3.1] <https://doi.org/10.3390/ma16041388>
7. F. Popa, T.F. Marinca, B.V. Neamtu, **M.S. Gabor**, I. Chicinas, ”*Structural, Chemical and Magnetic Characterization of Quartz Sand from Cluj Area for Future Beneficiation in the Glass Industry*,” *Materials* **15**, 9026 (2022) [IF = 3.4] <https://doi.org/10.3390/ma15249026>
 8. R. Pachat, D. Ourdani, M. Syskaki, A. Lamperti, S. Roy, S. Chen, A.D. Pietro, L. Largeau, R. Juge, M. Massouras, C. Balan, J.W.v.d. Jagt, G. Agnus, Y. Roussigné, **M.S. Gabor**, S.M. Chérif, G. Durin, S. Ono, J. Langer, D. Querlioz, D. Ravelosona, M. Belmeguenai, L.H. Diez, ”*Magneto-Ionics in Annealed W/CoFeB/HfO₂ Thin Films*,” *Adv. Mater. Interfaces* **9**, 2200690 (2022) [IF = 5.4] <https://doi.org/10.1002/admi.202200690>
 9. D. Ourdani, M. Belmeguenai, **M.S. Gabor**, A. Stashkevich, Y. Roussigné, ”*Theoretical Investigation of Skyrmion Dynamics in Pt/Co/MgO Nanodots*,” *Materials* **15**, 7474 (2022) [IF = 3.4] <https://doi.org/10.3390/ma15217474>
 10. D. Ourdani, Y. Roussigné, S.M. Chérif, **M.S. Gabor***, M. Belmeguenai, ”*Correlation between interface perpendicular magnetic anisotropy and interfacial Dzyaloshinskii - Moriya interactions in Pt/Pd(*t_{Pd}*) / Co(*t_{Co}*)/Au*,” *J. Phys. D: Appl. Phys.* **55**, 485004 (2022) [IF = 3.4] <https://doi.org/10.1088/1361-6463/ac9487>
 11. B.V. Neamtu, F. Popa, E. Ware, T.F. Marinca, **M.S. Gabor**, F.P. Piglesan, M. Nasui, ”*Hydrothermal Deposition of ZnO Layer on Fe-Based Amorphous Fibres Used for the Preparation of Cold Sintered Fibre-Based Soft Magnetic Composites*,” *Coatings* **12**, 1527 (2022) [IF = 3.4] <https://doi.org/10.3390/coatings12101527>
 12. J. Nath, A.V. Trifu, **M.S. Gabor**, A. Hallal, S. Auffret, S. Labau, A. Mahjoub, E. Chan, A.K. Chaurasiya, A.K. Mondal, H. Yang, E. Schmoranzero, M.A. Nsibi, I. Joumard, A. Barman, B. Pelissier, M. Chshiev, G. Gaudin, I.M. Miron, ”*Mechanism of Spin-Orbit Torques in Platinum Oxide Systems*,” *Adv. Electron. Mater.* **8**, 2101335 (2022) [IF = 6.2] <https://doi.org/10.1002/aelm.202101335>
 13. C. Safeer, M. Nsibi, J. Nath, **M.S. Gabor**, H. Yang, I. Joumard, S. Auffret, G. Gaudin, I. Miron, ”*Effect of Chiral Damping on the dynamics of chiral domain walls and skyrmions*,” *Nat. Commun.* **13**, 1192 (2022) [IF = 16.6] <https://doi.org/10.1038/s41467-022-28815-6>

14. E.M. Stetco, O.A. Pop, A. Grama, D. Pitica, **M.S. Gabor**, "*Manufacturing, Characterization, and Simulation Model Design for a Current Sensor Based on a Spin-Valve Magnetoresistive Microstructure*," *IEEE Trans. Compon. Packag. Manuf. Technol.* **12**, 422–428 (2022) [IF = 2.2] <https://doi.org/10.1109/TCPMT.2022.3151952>
15. R. Sonher, M. Nasui, **M.S. Gabor**, T.Petrisor. Jr., L. Ciontea, T. Petrisor, "*Effect of glycerol on the thermal decomposition behavior of nickel propionate-based precursor*," *J. Anal. Appl. Pyrolysis* **159**, 105289 (2021) [IF = 6.437] <https://doi.org/10.1016/j.jaap.2021.105289>
16. D. Ourdani, Y. Roussigné, S. Chérif, **M.S. Gabor***, M. Belmeguenai, "*Dependence of the interfacial Dzyaloshinskii-Moriya interaction, perpendicular magnetic anisotropy, and damping in Co-based systems on the thickness of Pt and Ir layers*," *Phys. Rev. B* **104**, 104421 (2021) [IF = 3.908] <https://doi.org/10.1103/PhysRevB.104.104421>
17. D. Ourdani, Y. Roussigné, R. Mos, M. Nasui, S. Chérif, **M.S. Gabor***, M. Belmeguenai, "*Hf thickness dependence of perpendicular magnetic anisotropy*," *Phys. Rev. Mater.* **5**, 084404 (2021) [IF = 3.98] <https://doi.org/10.1103/PhysRevMaterials.5.084404>
18. D. Ourdani, Y. Roussigné, S. Chérif, **M.S. Gabor**, M. Belmeguenai, "*Annealing Temperature and Thickness Dependencies of Perpendicular Magnetic Anisotropy and Dzyaloshinskii-Moriya Interaction of Pt/Co/MgO Thin Films*," *IEEE Trans. Magn.* **58**, 1–5 (2022) [IF = 2.1] <https://doi.org/10.1109/TMAG.2021.3089002>
19. R. Pachat, D. Ourdani, J.v.D. Jagt, M. Syskaki, A.D. Pietro, Y. Roussigné, S. Ono, **M.S. Gabor**, M. Chérif, G. Durin, J. Langer, M. Belmeguenai, D. Ravelosona, L.H. Diez, "*Multiple Magnetoionic Regimes in Ta/Co₂₀Fe₆₀B₂₀/HfO₂*," *Phys. Rev. Applied* **15**, 064055 (2021) [IF = 4.931] <https://doi.org/10.1103/PhysRevApplied.15.064055>
20. M. Nasui, R.B. Sonher, E. Ware, A. Daniel, T. Petrisor, **M.S. Gabor**, L. Ciontea, "*Morphological and Structural Evolution of Chemically Deposited Epitaxially LaNiO₃ Thin Films*," *Coatings* **11**, 1376 (2021) [IF = 3.236] <https://doi.org/10.3390/coatings11111376>
21. R. One, S. Mican, A. Mesaros, **M.S. Gabor**, T. Petrisor, M. Joldos, L. Buda-Prejbeanu, C. Tiusan, "*Perpendicular Magnetic Anisotropy Elec-*

- tric Field Modulation in Magnetron - Sputtered Pt/Co/X/MgO Ultrathin Structures With Chemically Tailored Top Interface," IEEE Trans. Magn.* **57**, 1–10 (2021) [IF = 1.848] <https://doi.org/10.1109/TMAG.2021.3071584>
22. R. Sonher, R.B. Varga, R.A. Nasui, M. Jr., T. Petrisor, **M.S. Gabor**, M. Senila, A. Rufoloni, T. Petrisor, L. Ciontea, "Single Source Precursor for PAD-LaMnO₃ Thin Films," *Crystals* **10** (2020) [IF = 2.589] <https://doi.org/10.3390/cryst10090851>
 23. I.B. Mokhtari, Y. Roussigné, S. Chérif, A. Stashkevich, S. Auffret, C. Baraduc, **M.S. Gabor**, H. Béa, M. Belmeguenai, "Interface phenomena in ferromagnet / TaO_x-based systems: Damping, perpendicular magnetic anisotropy, and Dzyaloshinskii - Moriya interaction," *Phys. Rev. Mater.* **4**, 124408 (2020) [IF = 3.989] <https://doi.org/10.1103/PhysRevMaterials.4.124408>
 24. I.B. Mokhtari, D. Ourdani, Y. Roussigné, R. Mos, M. Nasui, F. Kail, L. Chahed, S. Chérif, A. Stashkevich, **M.S. Gabor**, M. Belmeguenai, "Perpendicular magnetic anisotropy and interfacial Dzyaloshinskii–Moriya interaction in as grown and annealed X/Co/Y ultrathin systems," *J. Phys.: Condens. Matter* **32** (2020) [IF = 2.333] <https://doi.org/10.1088/1361-648X/abb0a8>
 25. I.B. Mokhtari, Y. Roussigné, T. Petrisor. Jr., F. Zighem, F. Kail, L. Chahed, V. Pierron, L. Méchin, **M.S. Gabor**, M. Belmeguenai, "Spin Pumping and Magnetic Anisotropy in LSMO / Pt Systems," *Phys. Status Solidi B* **257**, 2000265 (2020) [IF = 1.71] <https://doi.org/10.1002/pssb.202000265>
 26. B. Neamtu, A. Irimie, F. Popa, **M.S. Gabor**, T. Marinca, I. Chicinas, "Soft magnetic composites based on oriented short Fe fibres coated with polymer," *J. Alloys Compd.* **840**, 155731 (2020) [IF = 5.316] <https://doi.org/10.1016/j.jallcom.2020.155731>
 27. I.B. Mokhtari, D. Ourdani, Y. Roussigné, R. Mos, M. Nasui, S. Chérif, A. Stashkevich, **M.S. Gabor***, M. Belmeguenai, "Investigation of the correlation between perpendicular magnetic anisotropy, spin mixing conductance and interfacial Dzyaloshinskii - Moriya interaction in CoFeB-based systems," *J. Phys. D: Appl. Phys.* **53**, 505003 (2020) [IF = 3.207] <https://doi.org/10.1088/1361-6463/abb488>

28. **M.S. Gabor***, T. Petrisor Jr., M. Nasui, M.A. Nsibi, J. Nath, I.M. Miron, "*Spin-orbit Torques and Magnetization Switching in Perpendicularly Magnetized Epitaxial Pd / Co₂FeAl / MgO Structures*," *Phys. Rev. Appl.* **13**, 054039 (2020) [IF = 4.985] <https://doi.org/10.1103/PhysRevApplied.13.054039>
29. **M.S. Gabor***, M. Nasui, A. Timar-Gabor, "*Perpendicular magnetic anisotropy in Pt/Co-based full Hensler alloy/MgO thin-film structures*," *Phys. Rev. B* **100**, 144438 (2019) [IF = 3.575] <https://doi.org/10.1103/PhysRevB.100.144438>
30. W. Akhtar, A. Hrabec, S. Chouaieb, A. Haykal, I. Gross, M. Belmeguenai, **M.S. Gabor**, B. Shields, P. Maletinsky, A. Thiaville, S. Rohart, V. Jacques, "*Current-Induced Nucleation and Dynamics of Skyrmions in a Co-based Hensler Alloy*," *Phys. Rev. Appl.* **11**, 034066 (2019) [IF = 4.194] <https://doi.org/10.1103/PhysRevApplied.11.034066>
31. M. Belmeguenai, Y. Roussigné, S.M. Cherif, A. Stashkevich, T. Petrisor, M. Nasui, **M.S. Gabor***, "*Influence of the capping layer material on the interfacial Dzyaloshinskii-Moriya interaction in Pt/Co/capping layer structures probed by Brillouin light scattering*," *J. Phys. D: Appl. Phys.* **52**, 125002 (2019) [IF = 3.169] <https://doi.org/10.1088/1361-6463/aafdf5>
32. M. Belmeguenai, D. Apalkov, **M.S. Gabor**, F. Zighem, G. Feng, G. Tang, "*Magnetic Anisotropy and Damping Constant in CoFeB/Ir and CoFeB/Ru Systems*," *IEEE Trans. Magn.* **54**, 1–5 (2018) <https://doi.org/10.1109/TMAG.2018.2844410>
33. M. Belmeguenai, Y. Roussigné, H. Bouloussa, S. Chérif, A. Stashkevich, M. Nasui, **M.S. Gabor***, A. Mora-Hernández, B. Nicholson, O. Inyang, A. Hindmarch, L. Bouchenoire, "*Thickness Dependence of the Dzyaloshinskii-Moriya Interaction in Co₂FeAl Ultrathin Films: Effects of Annealing Temperature and Heavy-Metal Material*," *Phys. Rev. Appl.* **9**, 044044 (2018) [IF = 4.532] <https://doi.org/10.1103/PhysRevApplied.9.044044>
34. M. Belmeguenai, K. Aitoukaci, F. Zighem, **M.S. Gabor***, T. Petrisor, R. Mos, C. Tiusan, "*Investigation of the annealing temperature dependence of the spin pumping in Co₂₀Fe₆₀B₂₀/Pt systems*," *J. Appl. Phys.* **123**, 113905 (2018) [IF = 2.328] <https://doi.org/10.1063/1.5011111>

35. T.Petrisor. Jr., A. Meledin, A. Boule, R. Moş, **M.S. Gabor**, L. Ciontea, T. Petrişor, "Ordered misfit dislocations in epitaxial Gd doped CeO_2 thin films deposited on (001)YSZ single crystal substrates," *Appl. Surf. Sci.* **433**, 668–673 (2018) [IF = 5.155] <https://doi.org/10.1016/j.apsusc.2017.09.202>
36. L. Piperno, A.A. Armenio, A. Vannozzi, V. Galluzzi, V. Pinto, F. Rizzo, A. Augieri, A. Mancini, A. Rufoloni, G. Celentano, R.B. Mos, L. Ciontea, M. Nasui, **M.S. Gabor**, T. Petrisor, G. Sotgiu, "Surface Decoration as a Prospective Artificial Pinning Strategy in Superconducting $YBa_2Cu_3O_{7-x}$ Films," *IEEE Trans. Appl. Supercond.* **28**, 1–5 (2018) [IF = 1.692] <https://doi.org/10.1109/TASC.2018.2804092>
37. M. Belmeguenai, **M.S. Gabor***, Y. Roussigné, T.Petrisor. Jr., R. Mos, A. Stashkevich, S. Chérif, C. Tiusan, "Interfacial Dzyaloshinskii - Moriya interaction sign in Ir/ Co_2FeAl systems investigated by Brillouin light scattering," *Phys. Rev. B* **97**, 054425 (2018) [IF = 3.736] <https://doi.org/10.1103/PhysRevB.97.054425>
38. M. Belmeguenai, **M.S. Gabor**, F. Zighem, N. Challab, T. Petrisor, R. Mos, C. Tiusan, "Ferromagnetic-resonance-induced spin pumping in $Co_{20}Fe_{60}B_{20}/Pt$ systems: damping investigation," *J. Phys. D: Appl. Phys.* **51**, 045002 (2018) [IF = 2.829] <https://doi.org/10.1088/1361-6463/aa9f55>
39. **M.S. Gabor***, T. Petrisor, R. Mos, M. Nasui, C. Tiusan, "Interlayer exchange coupling in perpendicularly magnetized Pt / Co / Ir / Co / Pt structures," *J. Phys. D: Appl. Phys.* **50**, 465004 (2017) [IF = 2.373] <https://doi.org/10.1088/1361-6463/aa8ece>
40. F. Zighem, D. Faurie, M. Belmeguenai, N. Girodon-Boulandet, **M.S. Gabor**, P. Djemia, "Annealing effect on elastic, magnetic and magnetoelastic properties of CoFeB thin films on polymer substrate," *J. Phys. D: Appl. Phys.* **50**, 455002 (2017) [IF = 2.373] <https://doi.org/10.1088/1361-6463/aa8d0b>
41. M. Belmeguenai, H. Bouloussa, Y. Roussigné, **M.S. Gabor**, T.Petrisor. Jr., C. Tiusan, H. Yang, A. Stashkevich, S. Chérif, "Interface Dzyaloshinskii - Moriya interaction in the interlayer antiferromagnetic-exchange coupled Pt/CoFeB/Ru/CoFeB systems," *Phys. Rev. B* **96**, 144402 (2017) [IF = 3.813] <https://doi.org/10.1103/PhysRevB.96.144402>

42. M. Nasui, R. Mos, **M.S. Gabor**, T. Petrisor. Jr., A. Tomolea, E. Ware, F. Goga, A. Mesaros, L. Ciontea, "New versatile synthesis for low dimension superparamagnetic $YBa_2Cu_3O_{7-x}$ nanoparticles," *Ceram. Int.* **43**, 8845–8849 (2017) [IF = 3.057] <https://doi.org/10.1016/j.ceramint.2017.04.018>
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II - Teză de doctorat

1. Doctorat în *Ingineria Materialelor* acordat de Universitatea Tehnică din Cluj-Napoca, România și Doctorat în *Fizică* acordat de Universitatea Henri Poincaré, Nancy, Franța. Teză realizată în cadrul unui acord de co-tutelă internațional.

Spintronica cu Materiale Alternative: Aliaje Heusler și Oxizi Magnetici Diluați https://hal.univ-lorraine.fr/tel-01746191/file/SCD_T_2011_0040_GABOR.pdf

III - Capitole de cărți

1. Chapter.V: *Characterization of Complex Spintronic and Superconducting Structures by Atomic Force Microscopy Techniques* in "Scanning Probe Microscopy - Physical Property Characterization at Nanoscale", L. Ciontea, M.S. Gabor, T. Petrisor Jr., T. Ristoiu, C. Tiușan and T. Petrisor, Publisher: InTech Editat de către Vijay Nalladega, Aprilie 2012, ISBN 978-953-51-0576-3.

2. Capitolul I : *Anizotropia magnetică în filme subțiri* în "Filme subțiri: Creștere și proprietăți", de M.S. Gabor, M. Năsui, T. Petrișor jr., R.B. Sohner, UTPRESS Cluj - Napoca, 2025, ISBN 978-606-737-751-4

IV - Cărți și manuale didactice

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2. *Mecanică cuantică prin aplicații* C. Tiușan, M. Gabor. T. Petrisor Jr., Editura UTPRES 2013, 258 pagini, ISBN 978-973-662-825-2.
3. *Fizică I* M.S. Gabor. T. Petrisor Jr., Editura UTPRESS 2025, 256 pagini, Cluj-Napoca, ISBN 978-606-737-759-0.
4. *Fizică II* M.S. Gabor. T. Petrisor Jr., Editura UTPRESS 2025, 346 pagini, Cluj-Napoca, ISBN 978-606-737-760-6.