

Curriculum Vitae – Professor Dr. Iosif Galanakis

PERSONAL DATA

Professor Dr. Iosif Galanakis

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Citizenship: Greek

Birth Date : 29 October 1973

Birth Place : Athens - Greece

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ACADEMIC STUDIES

BASIC STUDIES

Greece, University of Athens, Physics Department, June 1996.

MASTER STUDIES

France, University Rennes I, Specialization in Condensed Matter Physics and Materials, June 1997.

PhD

France, University Louis Pasteur of Strasbourg, Thesis carried out in the Institute of Physics and Chemistry of Materials (Group of Metallic Materials), Speciality obtained: Quantum-mechanics of Materials, Grade: Excellent, June 2000.

Thesis title: Magnetic circular dichroism and magnetic anisotropy of transition-metal compounds

Supervisors: Professor H. Dreyssé and Professor M. Alouani

CARRIER

September 2000 till August 2002: Post-doc researcher at Institut für Festkörperforschung - Jülich.

September 2002 till February 2004: Military Service.

January 2005 till December 2005: Post-doc researcher at Institute of Microelectronics – NCSR “Demokritos”

September 2005 till February 2006: Lecturer with contract at Materials Science Dept. of University of Patras

March 2006 till March 2010: Lecturer at the Materials Science Dept. of University of Patras

March 2010 till July 2013: Assistant Professor (tenure-track) at the Materials Science Department of University of Patras in the field of «Micro- and nanophase materials»

July 2013 till May 2015: Tenured Assistant Professor at the Materials Science Department of University of Patras in the field of «Micro- and nanophased materials»

May 2015 till December 2019: Associate Professor at the Materials Science Department of University of Patras in the field of «Micro- and nanophase materials»

December 2019 till now: Professor at the Materials Science Department of University of Patras in the field of «Computational micro- and nanophase materials science with emphasis on the magnetic materials»

DISTINCTIONS

In the database «Data for updated science-wide author databases of standardized citation indicators 2023» (<https://elsevier.digitalcommonsdata.com/datasets/btchxktyw/6>) which is based on the impact of the published scientific record till the end of 2023, I am ranked 726 among 304738 scientists in the field of Applied Physics and 27978 among about 9 million scientists in the general ranking which includes all scientific fields.

RESEARCH PROGRAMS

- Proposer and member of the Management Committee of the COST action “CA22123 - European Materials Acceleration Center for Energy (EU-MACE)”. Duration 03/10/2023-02/10/2027.
- Member of the research group in the Department of Materials Science, University of Patras participating in the European project «Twinning towards the Russian-Armenian University’s scientific excellence and innovation capacity in nanomaterials for quantum information and quantum optics (NanoQIQO)» within the call «H2020-WIDESPREAD-2020-5» in collaboration with the Department of General Physics and Quantum Nanostructures, Russian-Armenian University (coordinator) and the Department of Chemistry, University of Hamburg. Duration: 02/2021-
- Partner and local coordinator in the “PERMASOL” project funded by the Österreichische Forschungsförderungsgesellschaft mbH (FFG). Other partners: Austrian Institute of Technology,

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Technische Universität Graz and NanoTecCenter Weiz Forschungsgesellschaft mbH. Budget 800k€ (local budget 98k€). Duration: 9/2015-8/2018.

- Partner in Project on the Knowledge Updating of University Graduates entitled "Materials Science for Advanced Technologies". Other partners are the Department of Materials Science and Technology of Crete's University and the Department of Materials Engineering of Ioannina University. Budget: ~50k€. Duration: 02/2015-09/2015.
- Main Researcher of a national "Excellency II" project entitled: "Heusler alloys based heterostructures showing perpendicular magnetic anisotropy for spintronic applications". Budget: 140k€. Duration: 02/2014-10/2015.
- Partner in a national Thalis project entitled "Feasibility studies on novel nanostructures of ZnO and their applications in nanophotonics and energy conversion: Experimental and theoretical approach [na(Z)nOzwire]". Budget: 559,4k€. Duration: 07/2012-12/2015.
- Responsible for a basic research program of the Patras University (K. Karatheodori 2008) entitled «Theoretical study of the electronic, magnetic and electrical properties of ferromagnetoelectric heterojunctions with applications in magnetoelectronics». Budget: 30k€.
- I have co-authored several research proposals for national and european calls

ADMINISTRATIVE RESPONSABILITIES

- Vice President of the Department of Materials Science (University of Patras) from 1/9/2020 till 31/8/2025.
- Representative of the Faculty of Natural Sciences in the Research and Management Committee of the Special Research Funds Account of the University of Patras from 1/1/2024 till 31/12/2027.
- Representative of the Department of Materials Science in the Research and Management Committee of the Special Research Funds Account of the University of Patras from 2021 till end of 2023.
- Member of the Department's Assembly and of several committees in the Department of Materials Science (University of Patras) such as the Department's Evaluation Committee (coordinator since July 2018), Committee for the Certification of the Undergraduate Curriculum, the Infrastructure Committee (coordinator), the Undergraduate Studies Program Committee and the Committee of Academic Affairs.
- Alternate member of the Quality Assurance Unit (MODIP) of the University of Patras (2020 and 2021).
- Responsible of the 1st (2019) and 2nd (2024) accreditation of the Department of Materials Science Undergraduate Programme .

FELLOWSHIPS

- **1992 till 1995:** Fellowship from "Papadakis Establishment" of the University of Athens
- **June 1997 till August 2000:** Graduate Fellow of the European Union program "Training and Mobility of Researchers Network of Interface Magnetism" (Contract number: ERBFMRXCT96-0089 of the European Committee).
- **September 2000 till August 2001:** Post-doctoral Fellow of the European Union program "Training and Mobility of Researchers Network of Interface Magnetism" (Contract number: ERBFMRXCT96-0089 of the European Committee).
- **September 2001 till August 2002:** Post-doctoral Fellow of the European Union program "Research Training Network of Magnetolectronics" (Contract number: RTN1-1999-00145 of the European Committee).
- **January 2005 till December 2006:** Post-doctoral Fellow of the Greek National Fellowships Foundation with title "Development of Molecular Dynamics and Application to Problems relative to Silicon Technology".

TEACHING

- In the Department of Materials Science, I have taught several undergraduate courses since 2006 including: Introduction to Materials Science (2011-13), Applied Mathematics I (2008-09), Applied Mathematics II (2006-08), Applied Mathematics III (2005-), Applied Mathematics IV (2005-10), Magnetic Materials (2005-), Special Topics in Mechanics (2010-21), Informatics I (2009-11 & 2013-18), Informatics I [lab]

(2005-06 & 2007-08 & 2011-18), Informatics II (2012-), Informatics II [lab] (2005-07 & 2008-2022), Physics II [lab] (2005-06), Electronic Structure of Matter (2020-), Materials Science V (2022-)

- Responsible for the Informatics I (2012-2018) & Informatics II laboratories (2012-2022)
- Graduate courses in the Master of Materials Science: Modeling of Materials I (2005-06), Modeling of Materials II (2006-2019), Quantum Phenomena in Materials. Theory and Computational Simulations using First-Principles Methods (2020-)
- Supervisor of several research diploma thesis
- Informal supervisor of the PhD Thesis of K. Ozdogan in the Department of Physics, Gebze Institute of Technology, Kocaeli, Turkey entitled «First-principles investigation of the effect of doping and disorder on the magnetic properties of half metallic Heusler alloys»
- Supervisor of the Master Diploma Thesis of K. Koumpouras entitled " Theoretical study of the electronic, magnetic and electrical properties of ferromagnetoelectric heterojunctions with applications in magnetoelectronics "
- Supervisor of the PhD Thesis of Athanasios Koliogiorgos entitled «*Ab-initio computer simulations of the electronic structure of usual and hybrid halide perovskite materials*». Defense 14/02/2019.

CHAPTERS CONTRIBUTED TO BOOKS

1. “Theory of Heusler and Full Heusler compounds” chapter invited for the book “Heusler alloys: Properties, Growth, Applications”, Springer Series in Materials Science Vol. 222, C. Felser & M. Hirohata (eds.), (Springer International Publishing, 2016).
2. “Fundamentals of half-metallic Full-Heusler alloys”, K. Ozdogan, E. Sasioglu and I. Galanakis, για το βιβλίο "Spintronics: Materials and Applications", Giulia C. Lombardi and Ginevra E. Bianchi (eds.), (Nova Publishers, New York 2009), pp 213-226. [ISBN: 978-1-61668-279-8]
3. “Role of defects and disorder in the half-metallic full-Heusler compounds”, I. Galanakis, K. Ozdogan and E. Sasioglu, for the book "Advances in Nanoscale Magnetism; Proceedings of the International Conference on Nanoscale Magnetism ICNM-2007", Springer Proceedings in Physics , Vol. 122, B. Aktas and F. Mikailov (Eds.), (Springer, Berlin Heidelberg 2008) pp 1-19 [ISBN: 978-3-540-69881-4]
4. “Electronic and Magnetic Properties of the Normal and Quaternary Full-Heusler Alloys: The Quest for New Half-Metallic Ferromagnets”, I. Galanakis, for the book "New Developments in Ferromagnetism Research", V.N. Murray (ed.), (Nova Publishers, New York 2005), pp 79-97. [ISBN: 1-59454-461-1]
5. "Half-metallicity and Slater-Pauling behavior in the ferromagnetic Heusler alloys", I. Galanakis and P.H. Dederichs, for the book "Half-metallic Alloys - Fundamentals and Applications", Lecture Notes in Physics Vol. 676, I. Galanakis and P.H. Dederichs (eds.), (Springer, Berlin Heidelberg 2005), pp 1-39. [Preprint arXiv:cond-mat/0408068]. [ISBN: 3-540-27719-6]

VARIOUS SCIENTIFIC ACTIVITIES

- **Co-editor of the book:** "Half-metallic Alloys - Fundamentals and Applications", Lecture Notes in Physics Vol. 676, I. Galanakis and P.H. Dederichs (eds.), (Springer, Berlin Heidelberg 2005), p311. [ISBN: 3-540-27719-6]
- **Member of the Advisory Board of Editors for “Computational Condensed Matter” of ELSEVIER**
- **Referee to the following Journals:**
Nature Communications, Review of Modern Physics, Physical Review Letters, Physical Review B, Physica B, Journal of Materials Science, Physics Letters A, Applied Physics Letters, Journal of Applied Physics, Journal of Physics: Condensed Matter, Journal of Physics D: Applied Physics, Journal of Magnetism and Magnetic Materials, Journal of Alloys and Compounds, Physica Status Solidi(a), Physica Status Solidi(b), Physica Status Solidi (Rapid Research Letters), Computational Materials Science, Computational Condensed Matter, Pramana-Journal of Physics, Intermetallics Journal of Physics and Chemistry of Materials, Materials Science and Engineering B, Journal of Modern Physics B, EPL-Europhysics Letters, European Physical Journal B, and IEEE Transactions on Magnetism
- **Several invited/contributed talks in international conferences as well as scientific stays.**
- **Highlight of the Month in the Scientific Psi-k Newsletter**, “*Half-ferromagnetism and Slater-Pauling behavior in the Heusler alloys*,” Issue 51, Pages 105-134, ed. Z. Szotek, June 2002.

- **Highlight of the Month in the Scientific Psi-k Newsletter**, “*Success Stories of Eminent Research on Ab-initio Calculations*,” Issue 122, ed. L. Petit, April 2014 (psi-k.net).
- **Highlight of the Month in the Scientific Psi-k Newsletter**, “*Theory of Heusler and Full-Heusler compounds*,” Issue 127, ed. L. Petit, April 2015 (psi-k.net).
- **Organizer** of the online workshop “Computational Materials Science 2021” (www.matersci.upatras.gr/cms21).

RESEARCH INTERESTS

My research activity focus on the study and simulation of the magnetic and magneto-optical properties of transition-metal compounds using ab-initio electronic structure calculations. Recently, I have also developed interest on the study of hybrid halide perovskites. The ab-initio electronic structure methods are employed both to explain experimental results and to predict new materials with novel properties. In such a method the Kohn-Sham equation describing the quantummechanical problem of N-electrons are solved self-consistently aiming to calculate the real charge density and electronic potential of the material under study. I have long experience in several electronic structures methods such as: (i) the «Full-potential linearized muffin-tin orbitals (FPLMTO)» method, (ii) the «Full-potential screened Green’s function Korringa-Kohn-Rostoker (FSKKR)» method, (iii) the «Full-potential local orbitals minimal basis (FPLO)» method, (iv) the «Full-potential linearized augmented planewaves (FLAPW)» method, (v) the «Projected augmented waves (PAW)» method, (vi) the «Pseudopotentials» Method as implemented in the «QUANTUM-Espresso» package and (vii) the VASP method.

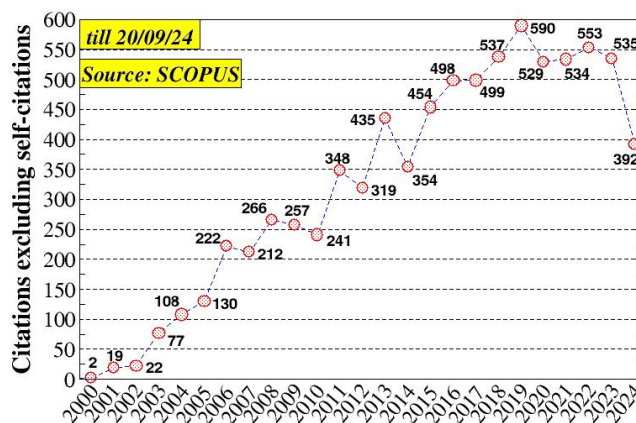
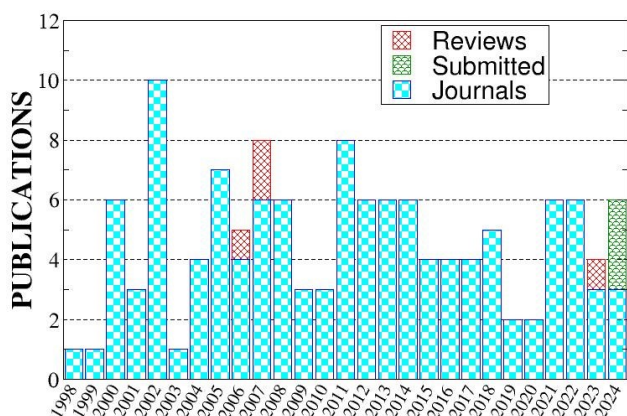
My research has been focused on the following problems:

- Simulation of X-ray Magnetic Circular Dichroism (XMCD) experiments and calculation of magnetic anisotropy. XMCD experiments are used to specify the atomic magnetic moments in thin films. The successful simulation of such experiments leads to a deeper understanding of the connection between the XMCD and the magnetic anisotropy energy which determines the orientation of the magnetization. (*Publications: [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [11](#), [13](#), [15](#), [18](#)*)
- Method of tuning the orbital magnetic moment in compounds like VAu_4 which leads to vanishing magnetic anisotropy energy and thus novel ultra-soft magnetic materials, and moreover cases of violation of the Hund's third rule in solids. (*Publications: [2](#), [9](#), [10](#), [12](#), [62](#)*)
- Rule to estimate the energy needed to create a surface in fcc non-magnetic elements which simplifies the models used to explain the growth of nanocrystals. (*Publications: [15](#), [19](#)*)
- Study of the magnetic properties of Heusler compounds presenting the shape-memory effect and their variation during the martensitic phase transition which they undergo. (*Publications: [59](#), [61](#)*)
- Study of the magnetic properties of ferromagnetoelectric alloys, like BiFeO_3 and $\text{Bi}_2\text{MnFeO}_6$, and their variation in heterostructures. (*Publications: [65](#), [70](#), [72](#)*)
- Study of the ZnO nanostructures (*Publications: [79](#), [113](#)*)
- Study of the optical properties of quantum dots (*Publication: [122](#)*)
- Study of manganese ternary layered compounds (*Publications: [100](#), [115](#), [124](#)*)
- Study of the gap-properties of both Cs and hybrid halide perovskites in both cubic and low-dimensional bulk crystal structures as well as cuboid quantum dots (*Publications: [95](#), [97](#), [98](#), [99](#), [101](#), [110](#)*)

- Study of the magnetic properties of half-metallic ferromagnetic compounds: (i) the Heusler alloys like NiMnSb and Co₂MnAl, and (ii) binary alloys like CrAs or CrSe crystallizing in the zincblende structure. These materials exhibit metallic behavior for one of the two spin-channels while the other spin-channel has an energy gap and presents semiconducting behavior. Thus the electrons at the Fermi level are fully-polarized with respect to their spin and these materials find application in spintronic devices. More precisely my research on these materials has been focused on the following subjects:
 - Origin of the gap and Slater-Pauling behavior of the spin moment (*Publications: [20](#), [21](#), [22](#), [74](#), [76](#), [84](#), [105](#)*)
 - Weyl points in half-metallic ferromagnets (*Publication: [94](#)*)
 - Orbital magnetism (*Publications: [26](#), [27](#)*)
 - Gapless and antiferromagnetic gapless semiconductors (*Publications: [91](#), [92](#)*)
 - Surface properties (*Publications: [16](#), [17](#), [28](#), [29](#), [57](#)*)
 - Interfaces with binary semiconductors (*Publications: [24](#), [25](#), [30](#), [57](#)*)
 - Heterostructures with magnetic materials (*Publications: [85](#), [90](#), [107](#)*)
 - Two-dimensional systems (*Publication: [118](#)*)
 - Quaternary and quinary Heusler alloys (*Publications: [23](#), [40](#), [48](#), [108](#), [109](#), [111](#), [112](#), [114](#), [117](#)*)
 - Exchange constants, Curie temperature and Spin-waves (*Publications: [31](#), [33](#), [69](#), [104](#)*)
 - Doping, disorder and impurities (*Publications: [36](#), [38](#), [46](#), [60](#), [66](#), [82](#)*)
 - Half-metallic Ferrimagnets (*Publications: [35](#), [41](#), [43](#), [50](#)*)
 - Half-metallic Antiferromagnets (*Publications: [39](#), [42](#), [50](#), [55](#), [64](#), [75](#)*)
 - Defects-induced ferrimagnetism in binary alloys (*Publications: [37](#), [47](#), [53](#), [56](#)*)
 - Defects at interfaces with binary semiconductors (*Publication: [58](#)*)
 - Phase transitions (*Publications: [51](#), [54](#), [68](#)*)
 - Spin-gapless and magnetic semiconductors (*Publications: [73](#), [76](#), [81](#), [86](#), [93](#), [96](#), [103](#), [106](#)*)
 - Spin-filter materials (*Publications: [78](#), [80](#), [88](#), [96](#)*)
 - All-d metallic Heusler compounds (*Publication: [102](#), [121](#)*)
 - Determination of the U and J Hubbard parameters and role of electronic correlations (*Publications: [77](#), [87](#), [105](#), [116](#)*)
 - Half-metallic sp-ferromagnets (*Publications: [63](#), [67](#), [71](#)*)
 - Materials of specific technological interest (*Publication: [52](#)*)
 - Semiconducting half-Heusler compounds (*Publication: [120](#)*)
 - p^0 -d semi-Heusler compounds (*Publication: [123](#)*)

Moreover on these materials, I have co-authored four review articles (*Publications: [34](#), [44](#), [45](#), [119](#)*), two short conference review papers (*Publications: [32](#), [90](#)*) and a short review in a special issue (*Publication: [83](#)*).

- Finally, I have participated in two articles on: (i) the development of the formalism for a real-space first-principles electronic structure method (*Publication: [1](#)*) and (ii) the computation of the conductivity in magnetic semiconductors quantum wells (*Publication: [49](#)*).



BIBLIOGRAPHICAL DATA (20/09/2024)

SCOPUS Author ID: **7004826685**

Researcher ID: **E-7969-2013**

ORCID: <https://orcid.org/0000-0002-5845-4318>

SOURCE	PUBLICATIONS	CITATIONS	h-index	REMARKS
Scopus	128	8082	41	Excluding self-citations of all authors
		8188	41	Excluding self-citations of selected author
		8743	43	Excluding citations from books
		8969	43	Including self-citations of all authors
Google Scholar (all years) (after 2019)	167	11494	47	i10-index 102
		4086	28	i10-index 73
Web of Science	117	8421	41	Including self-citations
		7759		Excluding self-citations

PUBLICATIONS IN SCIENTIFIC JOURNALS

(with ⊗ conference proceedings in refereed journals - with R review articles)

127	M. Tas, E. Sasioglu and I. Galanakis <i>Magnetic properties of all-d metallic Heusler compounds; A first-principles study</i> Magnetism, submitted
126	K. Ozdogan and I. Galanakis <i>Interplay between structural, electronic and magnetic properties in the d⁰-d semi-Heusler compounds; The case of the K-based compounds</i> Solids, submitted
125	E. Sasioglu, M. Tas, S. Ghosh, W. Beidan, B. Sanyal, S. Blugel, I. Mertig and I. Galanakis <i>Spin gapped metals: A novel class of materials for multifunctional spintronic devices</i> Journal of Applied Physics, submitted
124	A. Benmakhlof, F. Faid, N. Ghermoul, K. Ozdogan, T. Helaimia, A. Bouhemadou and I. Galanakis <i>DFT Insights into the Physical Properties of Layered LiMnSe₂ and LiMnTe₂ Compounds</i> Metals 14 , 1036 (2024); doi: 10.3390/met14091036 Link: https://www.mdpi.com/2075-4701/14/9/1036

123	K. Ozdogan and I. Galanakis <i>Interplay between structural, electronic and magnetic properties in the p^0-d semi-Heusler compounds; The case of the Li-based compounds</i> Crystals 14 , 693 (2024); doi: 10.3390/cryst14080693 Link: https://www.mdpi.com/2073-4352/14/8/693
122	Ch. Garoufalidis, D. Hayrapetyan, H. A. Sarkisyan, P. A. Mantashyan, Z. Zeng, I. Galanakis , G. Bester, T. Steenbock and S. Baskoutas <i>Optical Gain and Entanglement Through Dielectric Confinement and Electric Field in InP Quantum Dots</i> Nanoscale 16 , 8447 (2024); doi: 10.1039/d3nr06679g Link: https://pubs.rsc.org/en/content/articlelanding/2024/nr/d3nr06679g
121	M. Tas, K. Ozdogan, E. Sasioglu and I. Galanakis <i>High spin magnetic moments in all-3d-metallic Co-based full Heusler compounds</i> Materials 16 , 7543 (2023); doi: 10.3390/ma16247543 Link: https://www.mdpi.com/1996-1944/16/24/7543
120	E. Gurbuz, M. Tas, E. Sasioglu, I. Mertig, B. Sanyal and I. Galanakis <i>First-principles prediction of energy band gaps in 18-valence electron semiconducting half-Heusler compounds: Exploring the role of exchange and correlation</i> Journal of Applied Physics 134 , 205703 (2023); doi: 10.1063/5.0178165 Link: https://pubs.aip.org/aip/jap/article/134/20/205703/2923561/First-principles-prediction-of-energy-bandgaps-in
R119	I. Galanakis <i>Slater-Pauling behavior in half-metallic Heusler compounds</i> Nanomaterials 13 , 2010 (2023); doi: 10.3390/nano13132010 Link: https://www.mdpi.com/2079-4991/13/13/2010 <i>The article belongs to the Special Issue “First-Principle Calculation Study of Nanomaterials”</i>
118	E. Gurbuz, S. Ghosh, E. Sasioglu, I. Galanakis , I. Mertig and B. Sanyal <i>Spin-polarized two-dimensional electron/hole gas at the interface of non-magnetic semiconducting half-Heusler compounds: Modified Slater-Pauling rule for half-metallicity at the interface</i> Physical Review Materials 7 , 054405 (2023); doi: 10.1103/PhysRevMaterials.7.054405 Link: http://link.aps.org/doi/10.1103/PhysRevMaterials.7.054405
117	S. Nepal, R. Dhakal, I. Galanakis , S.M. Winter, R.P. Adhikari, and G.C. Kaphle <i>Ab-initio study of stable 3d, 4d and 5d transition metal based Quaternary Heusler compounds</i> Physical Review Materials 6 , 114407 (2022)); doi: 10.1103/PhysRevMaterials.6.114407 Link: http://link.aps.org/doi/10.1103/PhysRevMaterials.6.114407
116	M. Tas, E. Sasioglu, S. Blugel, I. Mertig and I. Galanakis <i>Ab-initio calculation of the Hubbard U and Hund exchange J in local moment magnets: The case of Mn-based full Heusler compounds</i> Physical Review Materials 6 , 114401 (2022)); doi: 10.1103/PhysRevMaterials.6.114401 Link: http://link.aps.org/doi/10.1103/PhysRevMaterials.6.114401
115	N. Ghermul A.Benmakhlouf, F. Faid, Y. Bourourou, A. Bouhemadou, K. Fakhreddine, S. Maabed, M. Bouchenafa, A. Bentabet, and I. Galanakis <i>Ab-initio prediction of half-metallicity in the NaMnZ_2 ($Z = \text{S, Se, Te}$) ternary layered compounds</i> Computational Condensed Matter 33 , e00754 (2022); doi: 10.1016/j.cocom.2022.e00754 Link: http://www.sciencedirect.com/science/article/pii/S2352214322001034
114	R. Mahat, U. Karki, Shambhu KC, J.Y. Law, V. Franco, I. Galanakis , A. Gupta and P. LeClair <i>Effect of mixing the low-valence transition metal atoms $Y = \text{Co, Fe, Mn, Cr, V, Ti, or Sc}$ on the properties of quaternary Heusler compounds $\text{Co}_{2-x}\text{Y}_x\text{FeSi}$ ($0 \leq x \leq 1$)</i> Physical Review Materials 6 , 064413 (2022); doi: 10.1103/PhysRevMaterials.6.064413 Link: http://link.aps.org/doi/10.1103/PhysRevMaterials.6.064413
113	Ch. Garoufalidis, Z. Zeng, G. Bester, I. Galanakis , D. Hayrapetyan, E. Paspalakis and S. Baskoutas <i>Excitons in ZnO quantum dots: the role of dielectric confinement</i> The Journal of Physical Chemistry C 126 , 2833 (2022); doi.org/10.1021/acs.jpcc.1c09702 Link: https://pubs.acs.org/doi/10.1021/acs.jpcc.1c09702

112	R. Mahat, Shambhu KC, U. Karki, S. Regmi, J.Y. Law, V. Franco, I. Galanakis , A. Gupta and P. LeClair <i>Structural, electronic, magnetic, and mechanical properties of $Co_{2-x}V_xFeSi$ Heusler alloys</i> IEEE Transactions on Magnetism 58 , 2600105 (2022); doi: 10.1109/TMAG.2021.3081466 21st Intermag Conference, Lyon, France, 2021 Link: http://ieeexplore.ieee.org/document/9433561?source=authoralert
111	R. Mahat, S. KC, U. Karki, J.Y. Law, V. Franco, I. Galanakis , A. Gupta and P. LeClair <i>Structural, electronic, magnetic, transport and mechanical properties of the half-metal-type quaternary Heusler alloys $Co_2Fe_{1-x}V_xGe$</i> Journal of Magnetism and Magnetic Materials 539 , 168352 (2021) ; doi: 10.1016/j.jmmm.2021.168352 Link: http://www.sciencedirect.com/science/article/pii/S0304885321006284
110	Ch. Garoufalis, I. Galanakis , Z. Zeng, D. Hayrapetyan and S. Baskoutas <i>Structural and electronic properties of small perovskite nanoparticles of the form ABX_3 ($A = MA, DEA, FA, GA, B = Pb, Sn, X = Cl, Br, I$)</i> Electronic Materials 2 , 382 (2021)); doi: 10.3390/electronicmat2030026 Link: https://www.mdpi.com/2673-3978/2/3/26
109	R. Mahat, S. KC, U. Karki, J.Y. Law, V. Franco, I. Galanakis , A. Gupta and P. LeClair <i>Possible half-metallic behavior of $Co_{2-x}Cr_xFeGe$ Heusler alloys: Theory and Experiment</i> Physical Review B 104 , 014430 (2021); doi: 10.1103/PhysRevB.104.014430 Link: http://link.aps.org/doi/10.1103/PhysRevB.104.014430
108	R. Dhakal, S. Nepal, I. Galanakis , R. Adhikari, and G. C. Kaphle <i>Prediction of half-metallicity and spin-gapless semiconducting in the new series of FeCr-based quaternary Heusler alloys: An Ab initio study</i> Journal of Alloys and Compounds 882 . 160500 (2021) doi: 10.1016/j.jallcom.2021.160500 Link: https://www.sciencedirect.com/science/article/pii/S0925838821019095
107	I. Galanakis <i>An ab-initio study of all-Heusler heterostructures: the case of ultrathin multilayers</i> Physica Status Solidi (RRL) - Rapid Research Letters 15 , 2100139 (2021); doi: 10.1002/pssr.202100139 Invited for the 60 th anniversary of Physica Status Solidi Link: http://onlinelibrary.wiley.com/doi/10.1002/pssr.202100139
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IMPACT FACTORS (from Journal of Citation Reports Science Edition 2023)

<i>Journal's Name</i>	<i>Number of Publications</i>	<i>Impact Factor</i>
ACS Omega	1	3.7
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Applied Physics Letters	5	3.5
Computational Condensed Matter	2	2.6
Computational Materials Science	4	3.1
Crystals	1	2.4
Electronic Materials	1	-^^
Europhysics Letters**	1	1.8
IEEE Transactions on Magnetics	1	2.1
Inorganic Chemistry	1	4.3
Journal of Advanced Physics	1	-*
Journal of Alloys and Compounds	1	5.8
Journal of Applied Physics	12	2.7
Journal of Computational and Theoretical Nanoscience^^^	1	0.843
Journal of Electron Microscopy^	1	1.5
Journal of the Magnetic Society of Japan	1	-*
Journal of Magnetism and Magnetic Materials	15	2.5
Journal of Materials Science	1	3.5
Journal of Physical Chemistry C	1	3.3
Journal of Physics: Condensed Matter	13	2.3
Journal of Physics D: Applied Physics	4	3.1
Journal of Spintronics and Magnetic Nanomaterials	2	-*
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Physical Review B	28	3.2
Physical Review Materials	7	3.1
Solid State Communications	1	2.1
Surface Science	2	2.1

-* These Journals are not included neither in Scopus nor in Web of Science

-** This Journal is published after 2007 with the title “EPL”

-*** This Journal stopped being published in 2004. Data for the publication year (1998) are provided.

-^ This Journal is published after 2012 with the title “Microscopy”.

-^^ The journal has not been awarded an impact factor yet.

-^^^ This Journal stopped being published in 2015. Data for the publication year (2010) are provided.

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