

# Curriculum Vitae – Professor Dr. Iosif Galanakis

## PERSONAL DATA

### **Professor Dr. Iosif Galanakis**

University of Patras  
Faculty of Natural Sciences  
Department of Materials Science  
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**Citizenship:** Greek  
**Birth Date :** 29 October 1973  
**Birth Place :** Athens - Greece  
**Fax :** +30-2610996308

## 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 fur 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 2021» (<https://dx.doi.org/10.17632/btchxktzyw>) which is based on the impact of the published scientific record till the end of 2020, I am ranked 683 among about 225000 scientists in the field of Applied Physics and 28098 among about 7 million scientists in the general ranking which includes all scientific fields. With respect to the impact on the published scientific record exclusively published within the year 2020, I am ranked 528 in the field of Applied Physics and 21616 in the general ranking which includes all scientific fields.

## RESEARCH PROGRAMS

- Member of the research group in the Department of Materials Science, University of Patras participating in the European project «Twining towards the Russian-Armenian University's scientific excellence and innovation capacity in nanomaterials for quantum information and quantum optics (NanoQIQQO)» 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-

# Curriculum Vitae – Professor Dr. Iosif Galanakis

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- Partner and local coordinator in the “PERMASOL” project funded by the Österreichische Forschungsförderungsgesellschaft mbH (FFG). Other partners: Austrian Institute of Technology, 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 Creta'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

## 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 Magnetoelectronics” (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-), Advanced 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-), Physics II [lab] (2005-06), Electronic Structure of Matter (2020-)
- Responsible for the Informatics I (2012-2018) & Informatics II laboratories (2012-)
- 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 Magnetics
- **7 Invited talks in international conferences**, several contributed talks and 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](http://www.matersci.upatras.gr/cms21) ).

## ADMINISTRATIVE RESPONSABILITIES

Vice President of the Department of Materials Science (University of Patras) from 1/9/2020 till 31/8/2022. Member of the Departments Assembly and of several comities 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 Budget 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 (Since 01/2020).

## 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 quantumechanical 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:

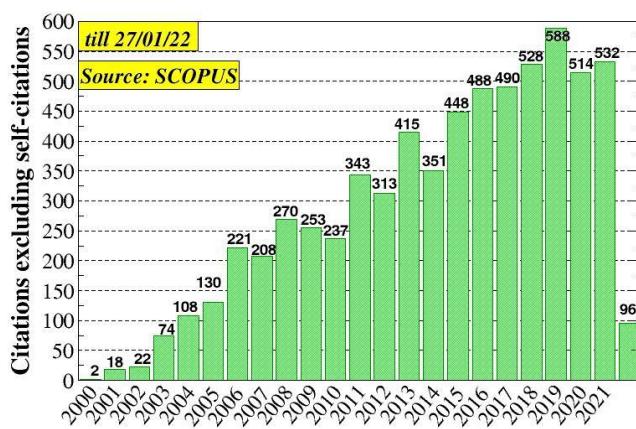
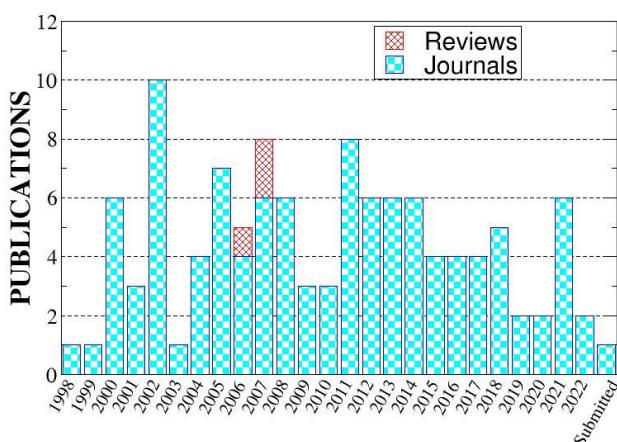
- Simulation of X-ray Magnetic Circular Diocroism (XMCD) experiments and calculation of magnetic anisotropy. XMCD experiments are used to specify the atomic magnetic moments in thin films. The successful simulation of such experiments leads to a deeper understanding of the connection between the XMCD 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<sub>4</sub> 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<sub>3</sub> and Bi<sub>2</sub>MnFeO<sub>6</sub>, and their variation in heterostructures. (*Publications: 65, 70, 72*)
- Study of the ZnO nanostructures (*Publications: 79, 113*)
- Study of manganese tellurides (*Publication: 100*)
- 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 Co<sub>2</sub>MnAl, 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:

# Curriculum Vitae – Professor Dr. Iosif Galanakis

- 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*)
- Quaternary and quinternary Heusler alloys (*Publications: 23, 40, 48, 108, 109, 111, 112*)
- 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*)
- Determination of the U and J Hubbard parameters and role of electronic correlations (*Publications: 77, 87, 105*)
- Half-metallic sp-ferromagnets (*Publications: 63, 67, 71*)
- Materials of specific technological interest (*Publication: 52*)

Moreover on these materials, I have co-authored three review articles (*Publications: 34, 44, 45*), 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*).



# Curriculum Vitae – Professor Dr. Iosif Galanakis

## BIBLIOGRAPHICAL DATA (27/01/2022)

SCOPUS Author ID: **7004826685**

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

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

SOURCE	PUBLICATIONS	CITATIONS	h-index	REMARKS
<i>Scopus</i>	116	6682	39	Excluding self-citations of all authors
		6776	39	Excluding self-citations of selected author
		7284	41	Excluding citations from books
		7474	41	Including self-citations of all authors
<i>Google Scholar (all years) (after 2016)</i>	159	9446	44	i10-index 93
		3520	38	i10-index 66
<i>Web of Science</i>	104	7114	39	Including self-citations
		6530		Excluding self-citations

## PUBLICATIONS IN SCIENTIFIC JOURNALS

(With  $\otimes$  conference proceedings in journals - with R review articles)  
(With  $\oplus$  articles with the participation of students)

114	M. Tas, E. Sasioglu, S. Blugel, I. Mertig and <b>I. Galanakis</b> <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> <i>Phys. Rev. Mater.</i> submitted
113	Ch. Garoufalidis, Z. Zeng, G. Bester, <b>I. Galanakis</b> , 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; <i>in press</i> ; <a href="https://doi.org/10.1021/acs.jpcc.1c09702">https://doi.org/10.1021/acs.jpcc.1c09702</a>
112	R. Mahat, Shambhu KC, U. Karki, S. Regmi, J.Y. Law, V. Franco, <b>I. Galanakis</b> , A. Gupta and P. LeClair <i>Structural, electronic, magnetic, and mechanical properties of Co<sub>2-x</sub>V<sub>x</sub>FeSi Heusler alloys</i> IEEE Transactions on Magnetics 58, 2600105 (2022); <i>doi: 10.1109/TMAG.2021.3081466</i> <i>21st Intermag Conference, Lyon, France, 2021</i> <u><a href="http://ieeexplore.ieee.org/document/9433561?source=authoralert">Link: http://ieeexplore.ieee.org/document/9433561?source=authoralert</a></u>
111	R. Mahat, S. KC, U. Karki, J.Y. Law, V. Franco, <b>I. Galanakis</b> , A. Gupta and P. LeClair <i>Structural, magnetic, transport and mechanical properties of the half-metal-type quaternary Heusler alloys Co<sub>2</sub>Fe<sub>1-x</sub> V<sub>x</sub> Ge</i> Journal of Magnetism and Magnetic Materials 539, 168352 (2021) ; <i>doi: 10.1016/j.jmmm.2021.168352</i> <u><a href="http://www.sciencedirect.com/science/article/pii/S0304885321006284">Link: http://www.sciencedirect.com/science/article/pii/S0304885321006284</a></u>
110	Ch. Garoufalidis, <b>I. Galanakis</b> , Z. Zeng, D. Hayrapetyan and S. Baskoutas <i>Structural and electronic properties of small perovskite nanoparticles of the form ABX<sub>3</sub> (A = MA, DEA, FA, GA, B = Pb, Sn, X = Cl, Br, I)</i> Electronic Materials 2, 382 (2021) ); <i>doi: 10.3390/electronicmat2030026</i> <u><a href="https://www.mdpi.com/2673-3978/2/3/26">Link: https://www.mdpi.com/2673-3978/2/3/26</a></u>
109	R. Mahat, S. KC, U. Karki, J.Y. Law, V. Franco, <b>I. Galanakis</b> , A. Gupta and P. LeClair <i>Possible half-metallic behavior of Co<sub>2-x</sub>Cr<sub>x</sub>FeGe Heusler alloys: Theory and Experiment</i> Physical Review B <b>104</b> , 014430 (2021); <i>doi: 10.1103/PhysRevB.104.014430</i> <u><a href="http://link.aps.org/doi/10.1103/PhysRevB.104.014430">Link: http://link.aps.org/doi/10.1103/PhysRevB.104.014430</a></u>
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 <b>882</b> , 160500 (2021) <i>doi: 10.1016/j.jallcom.2021.160500</i>

# Curriculum Vitae – Professor Dr. Iosif Galanakis

	<u><a href="https://www.sciencedirect.com/science/article/pii/S0925838821019095">Link: https:// www.sciencedirect.com/science/article/pii/S0925838821019095</a></u>
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 <b>15</b> , 2100139 (2021); <i>doi: 10.1002/pssr.202100139</i> <i>Invited for the 60<sup>th</sup> anniversary of Physica Status Solidi</i> <u><a href="http://onlinelibrary.wiley.com/doi/10.1002/pssr.202100139">Link: http://onlinelibrary.wiley.com/doi/10.1002/pssr.202100139</a></u>
106	K. Ozdogan and I. Galanakis <i>Stability of spin-gapless semiconducting behavior in Ti<sub>2</sub>CoSi, Ti<sub>2</sub>MnAl and Ti<sub>2</sub>VAs Heusler compounds</i> Physical Review Materials <b>5</b> , 024409 (2021); <i>doi: 10.1103/PhysRevMaterials.5.024409</i> <u><a href="http://link.aps.org/doi/10.1103/PhysRevMaterials.5.024409">Link: http://link.aps.org/doi/10.1103/PhysRevMaterials.5.024409</a></u>
105	S. Nepal R. Dhakal and I. Galanakis <i>Ab initio study of the half-metallic full-Heusler compounds Co<sub>2</sub>ZAl [Z= Sc, Ti, V, Cr, Mn, Fe]; the role of electronic correlations</i> Materials Today Communications <b>25</b> , 101498 (2020) ); <i>doi: 10.1016/j.mtcomm.2020.101498</i> <u><a href="http://www.sciencedirect.com/science/article/pii/S2352492820325095">Link: http://www.sciencedirect.com/science/article/pii/S2352492820325095</a></u>
104	G. Fischer, X. Zubizarreta, A. Marmodoro, M. Hoffmann, P. Buczek, N. Buczek, M. Dane, W. Hergert, E. Sasioglu, I. Galanakis and A. Ernst <i>Effect of correlation and disorder on the spin-waves spectra of Pd<sub>2</sub>MnSn, Ni<sub>2</sub>MnSn and Cu<sub>2</sub>MnAl Heusler alloys: A first-principles study</i> Physical Review Materials <b>4</b> , 064405 (2020); <i>doi: 10.1103/PhysRevMaterials.4.064405</i> <u><a href="http://link.aps.org/doi/10.1103/PhysRevMaterials.4.064405">Link: http://link.aps.org/doi/10.1103/PhysRevMaterials.4.064405</a></u>
103	T. Aull, E. Sasioglu, I. Maznichenko, S. Ostanin, A. Ernst, I. Mertig and I. Galanakis <i>Ab-initio design of quaternary Heusler compounds for reconfigurable magnetic tunnel diodes and transistors</i> Physical Review Materials <b>3</b> , 124415 (2019); <i>doi: 10.1103/PhysRevMaterials.3.124415</i> <u><a href="http://link.aps.org/doi/10.1103/PhysRevMaterials.3.124415">Link: http://link.aps.org/doi/10.1103/PhysRevMaterials.3.124415</a></u>
102	K. Ozdogan, I. Maznichenko, S. Ostanin, E. Sasioglu, A. Ernst, I. Mertig and I. Galanakis <i>High spin polarization in all-3d-metallic Heusler compounds: The case of Fe<sub>2</sub>CrZ and Co<sub>2</sub>CrZ (Z=Sc,Ti,V)</i> Journal of Physics D: Applied Physics <b>52</b> , 205003 (2019); <i>doi: 10.1088/1361-6463/ab0802</i> <u><a href="https://iopscience.iop.org/article/10.1088/1361-6463/ab0802">Link: https://iopscience.iop.org/article/10.1088/1361-6463/ab0802</a></u>
101 ⊕	A. Koliogiorgos, Ch. Garoufalidis, I. Galanakis, and S. Baskoutas <i>Electronic and optical properties of ultrasmall ABX<sub>3</sub> (A=Cs, CH<sub>3</sub>NH<sub>3</sub>/B=Ge, Pb, Sn, Ca, Sr/X=Cl, Br, I) perovskite quantum dots</i> ACS Omega <b>3</b> , 18917 (2018); <i>doi: 10.1021/acsomega.8b02525</i> <u><a href="http://pub.acs.org/doi/10.1021/acsomega.8b02525">Link: http://pub.acs.org/doi/10.1021/acsomega.8b02525</a></u>
100	A.Benmakhlof, Y. Bourourou, I. Galanakis, A. Bouhemadou, A. Bentabet, F. Khemlouf, S. Maabed, and M. Bouchenafa <i>Structural, electronic and magnetic properties of the Manganese telluride layers AMnTe<sub>2</sub> (A=K, Rb, Cs) from first-principles calculations</i> Journal of Magnetism and Magnetic Materials <b>465</b> , 430 (2018); <i>doi: 10.1016/j.jmmm.2018.06.002</i> ERRATUM: <b>498</b> , 166210 (2020); <i>doi: 10.1016/j.jmmm.2019.166210</i> <u><a href="http://www.sciencedirect.com/science/article/pii/S0304885318310874">Link: http://www.sciencedirect.com/science/article/pii/S0304885318310874</a></u>
99 ⊕	G. Moschou, A. Koliogiorgos, and I. Galanakis <i>Electronic properties of Cs-based halide perovskites: An ab-initio study</i> Physica Status Solidi (A) <b>215</b> , 1700941 (2018); <i>doi: 10.1002/pssa.201700941</i> <i>Special issue on “Materials for Energy Harvesting”</i> <u><a href="http://onlinelibrary.wiley.com/doi/10.1002/pssa.201700941">Link: https://onlinelibrary.wiley.com/doi/10.1002/pssa.201700941</a></u>
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# Curriculum Vitae – Professor Dr. Iosif Galanakis

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# Curriculum Vitae – Professor Dr. Iosif Galanakis

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17	<p><b>I. Galanakis</b>  <b>Surface Properties of the Half- and Full-Heusler Alloys</b>  Journal of Physics: Condensed Matter <b>14</b>, 6329 (2002); <i>doi:10.1088/0953-8984/14/25/303</i>  <a href="http://iopscience.iop.org/0953-8984/14/25/303">Link:<u>http://iopscience.iop.org/0953-8984/14/25/303</u></a></p>
16	<p><b>I. Galanakis</b>  <b>Surface Half-Metallicity of CrAs in the Zinc-Blende Structure</b>  Physical Review B <b>66</b>, 012406 (2002); <i>doi:10.1103/PhysRevB.66.012406</i>  <a href="http://prb.aps.org/abstract/PRB/v66/i1/e012406">Link:<u>http://prb.aps.org/abstract/PRB/v66/i1/e012406</u></a></p>
15	<p><b>I. Galanakis</b>, N. Papanikolaou, and P.H. Dederichs  <b>Applicability of the Broken-Bond Rule to the Surface Energy of the fcc Metals</b>  Surface Science <b>511</b>, 1 (2002); <i>doi:10.1016/S0039-6028(02)01547-9</i>  <a href="http://www.sciencedirect.com/science/article/pii/S0039602802015479">Link:<u>http://www.sciencedirect.com/science/article/pii/S0039602802015479</u></a></p>
14 ⊗	<p>A. Debernardi, <b>I. Galanakis</b>, M. Alouani, and H. Dreyssé  <b>Magneto-optical properties of iron thin films on paramagnetic substrates</b>  Computational Materials Science <b>24</b>, 205 (2002); <i>doi:10.1016/S0927-0256(02)00190-8</i>  <i>European Materials Research Society (EMRS'01) Spring meeting, Strasbourg, France, 2001</i>  <a href="http://www.sciencedirect.com/science/article/pii/S0927025602001908">Link:<u>http://www.sciencedirect.com/science/article/pii/S0927025602001908</u></a></p>
13 ⊗	<p><b>I. Galanakis</b>, M. Alouani, and H. Dreyssé  <b>Calculated magnetic properties of low dimensional systems: the AuCu- and AuCu<sub>3</sub>-type ferromagnets</b>  Journal of Magnetism and Magnetic Materials <b>242-245</b>, 27 (2002); <i>doi:10.1016/S0304-8853(01)01179-9</i>  <i>1<sup>st</sup> Joint European Magnetic Symposia (JEMS'01), Grenoble, France, 2001. <u>Invited Paper</u></i>  <a href="http://www.sciencedirect.com/science/article/pii/S0304885301011799">Link:<u>http://www.sciencedirect.com/science/article/pii/S0304885301011799</u></a></p>
12 ⊗	<p>P. M. Oppeneer, <b>I. Galanakis</b>, A. Grechnev, and O. Eriksson  <b>Unusual magnetism and magnetocrystalline anisotropy of CrPt<sub>3</sub></b>  Journal of Magnetism and Magnetic Materials <b>240</b>, 371 (2002); <i>doi:10.1016/S0304-8853(01)00805-8</i>  <i>4<sup>th</sup> International Symposium on Metallic Multilayers (MML'01), Aachen, Germany, 2001</i>  <a href="http://www.sciencedirect.com/science/article/pii/S0304885301008058">Link:<u>http://www.sciencedirect.com/science/article/pii/S0304885301008058</u></a></p>
11 ⊗	<p><b>I. Galanakis</b>, A. Debernardi, M. Alouani, and H. Dreyssé  <b>Surface magnetism of 3d monolayers on a W(110) substrate probed by x-ray magnetic circular dichroism</b>  Surface Science <b>482-5</b>, 1030 (2001); <i>doi:10.1016/S0039-6028(00)01089-X</i>  <i>19<sup>th</sup> European Conference on Surface Science (ECOSS-19), Madrid, Spain, 2000</i>  <a href="http://www.sciencedirect.com/science/article/pii/S003960280001089X">Link:<u>http://www.sciencedirect.com/science/article/pii/S003960280001089X</u></a></p>
10	<p><b>I. Galanakis</b>, P. Ravindran, P.M. Oppeneer, L. Nordström, P. James, M. Alouani, H. Dreyssé, and O. Eriksson  <b>Sign reversal of the orbital moment via ligand states</b>  Physical Review B <b>63</b>, 172405 (2001); <i>doi:10.1103/PhysRevB.63.172405</i>  <a href="http://prb.aps.org/abstract/PRB/v63/i17/e172405">Link:<u>http://prb.aps.org/abstract/PRB/v63/i17/e172405</u></a></p>
9	<p><b>I. Galanakis</b>, M. Alouani, P.M. Oppeneer, H. Dreyssé, and O. Eriksson  <b>Tuning the orbital moment in transition metal compounds using ligand states</b>  Journal of Physics: Condensed Matter <b>13</b>, 4553 (2001); <i>doi:10.1088/0953-8984/13/20/316</i>  <a href="http://iopscience.iop.org/0953-8984/13/20/316">Link:<u>http://iopscience.iop.org/0953-8984/13/20/316</u></a></p>
8	<p><b>I. Galanakis</b>, S. Ostanin, M. Alouani, H. Dreyssé, and J.M. Wills  <b>Theoretical study of the magnetic properties and magnetic circular dichroism in the x-ray absorption spectra of the ordered Fe<sub>0.5</sub>Pd<sub>0.5</sub> alloy</b>  Physical Review B <b>61</b>, 599 (2000); <i>doi:10.1103/PhysRevB.61.599</i>  <a href="http://prb.aps.org/abstract/PRB/v61/i1/p599_1">Link:<u>http://prb.aps.org/abstract/PRB/v61/i1/p599_1</u></a></p>
7	<p>W. Grange, <b>I. Galanakis</b>, M. Alouani, M. Maret, J.-P. Kappler, and A. Rogalev  <b>Experimental and theoretical x-ray magnetic circular dichroism study of the magnetic properties of Co<sub>0.5</sub>Pt<sub>0.5</sub></b>  Physical Review B <b>62</b>, 1157 (2000); <i>doi:10.1103/PhysRevB.62.1157</i>  <a href="http://prb.aps.org/abstract/PRB/v62/i2/p1157_1">Link:<u>http://prb.aps.org/abstract/PRB/v62/i2/p1157_1</u></a></p>

# Curriculum Vitae – Professor Dr. Iosif Galanakis

6	<b>I. Galanakis</b> , M. Alouani, and H. Dreyssé <i>Perpendicular magnetic anisotropy of binary alloys: A total energy calculation</i> Physical Review B <b>62</b> , 6475 (2000); doi: <a href="https://doi.org/10.1103/PhysRevB.62.6475">10.1103/PhysRevB.62.6475</a> <a href="http://prb.aps.org/abstract/PRB/v62/i10/p6475_1">Link:</a> <a href="http://prb.aps.org/abstract/PRB/v62/i10/p6475_1">http://prb.aps.org/abstract/PRB/v62/i10/p6475_1</a>
5	<b>I. Galanakis</b> , M. Alouani, and H. Dreyssé <i>Interface magnetism in ultra-thin Fe/W(110) films from first-principles</i> Physical Review B <b>62</b> , 3923 (2000); doi: <a href="https://doi.org/10.1103/PhysRevB.62.3923">10.1103/PhysRevB.62.3923</a> <a href="http://prb.aps.org/abstract/PRB/v62/i6/p3923_1">Link:</a> <a href="http://prb.aps.org/abstract/PRB/v62/i6/p3923_1">http://prb.aps.org/abstract/PRB/v62/i6/p3923_1</a>
4 ⊗	<b>I. Galanakis</b> , S. Ostanin, M. Alouani, H. Dreyssé, and H. Ebert <i>Calculated x-ray magnetic circular dichroism of the ordered and disordered FePd alloy</i> Computational Materials Science <b>17</b> , 455 (2000); doi: <a href="https://doi.org/10.1016/S0927-0256(00)00068-9">10.1016/S0927-0256(00)00068-9</a> <i>European Materials Research Society (EMRS'99) Spring meeting, Strasbourg, France, 1999</i> <a href="http://www.sciencedirect.com/science/article/pii/S0927025600000689">Link:</a> <a href="http://www.sciencedirect.com/science/article/pii/S0927025600000689">http://www.sciencedirect.com/science/article/pii/S0927025600000689</a>
3	<b>I.Galanakis</b> , S. Ostanin, M. Alouani, H. Dreyssé, and J.M. Wills <i>Ab-initio ground-state and L<sub>2,3</sub> x-ray magnetic circular dichroism of Mn-based Heusler alloys</i> Physical Review B <b>61</b> , 4093 (2000); doi: <a href="https://doi.org/10.1103/PhysRevB.61.4093">10.1103/PhysRevB.61.4093</a> <a href="http://prb.aps.org/abstract/PRB/v61/i6/p4093_1">Link:</a> <a href="http://prb.aps.org/abstract/PRB/v61/i6/p4093_1">http://prb.aps.org/abstract/PRB/v61/i6/p4093_1</a>
2 ⊗	P.M. Oppeneer, <b>I. Galanakis</b> , P. James, O. Eriksson, and P. Ravindran <i>Theory of the anisotropic magneto-optical Kerr effect in artificial FeAu and MnAu and in Xau<sub>4</sub> (X=V,Cr,Mn) compounds</i> Journal of the Magnetic Society of Japan <b>23</b> , 21 (1999) <i>Magneto-Optical Recording International Symposium'99, Japan, 1999</i>
1 ⊗	<b>I. Galanakis</b> , M. Alouani, J.M. Wills, and H. Dreyssé <i>A real-space full-potential localized LMTO method for non-collinear magnetism</i> Philosophical Magazine B <b>78</b> , 463 (1998); doi: <a href="https://doi.org/10.1080/10.1080/014186398257718">10.1080/10.1080/014186398257718</a> <i>2<sup>nd</sup> TMR of Interface Magnetism Annual Meeting, Wien, Austria, 1998</i> <a href="http://www.ingentaconnect.com/content/tandf/tphb/1998/00000078/F0020005/art00010">Link:</a> <a href="http://www.ingentaconnect.com/content/tandf/tphb/1998/00000078/F0020005/art00010">http://www.ingentaconnect.com/content/tandf/tphb/1998/00000078/F0020005/art00010</a>

## IMPACT FACTORS (from Journal of Citation Reports Science Edition 2020)

<i>Journal's Name</i>	<i>Number of Publications</i>	<i>Impact Factor</i>
ACS Omega	1	3.512
AIP Advances	1	1.548
Applied Physics Letters	5	3.791
Computational Condensed Matter	1	-^*
Computational Materials Science	4	2.863
Electronic Materials	1	-^*
Europhysics Letters**	1	1.958
IEEE Transactions on Magnetics	1	1.700
Inorganic Chemistry	1	5.165
Journal of Advanced Physics	1	-*
Journal of Alloys and Compounds	1	5.316
Journal of Applied Physics	11	2.546
Journal of Computational and Theoretical Nanoscience	1	1.666
Journal of Electron Microscopy^	1	1.571
Journal of the Magnetic Society of Japan	1	-*
Journal of Magnetism and Magnetic Materials	16	2.993
Journal of Materials Science	1	4.220
Journal of Physical Chemistry C	1	4.126
Journal of Physics: Condensed Matter	13	2.333
Journal of Physics D: Applied Physics	4	3.207
Journal of Spintronics and Magnetic Nanomaterials	2	-*
Journal of Surfaces and Interfaces of Materials	1	-*
Materials Today Communications	1	3.383
Philosophical Magazine B***	1	1.241

# Curriculum Vitae – Professor Dr. Iosif Galanakis

Physica B	1	2.436
Physica E	1	3.382
Physica Status Solidi (a)	2	1.981
Physica Status Solidi –Rapid Research Letters	4	2.821
Physical Review B	28	4.036
Physical Review Materials	3	3.989
Solid State Communications	1	1.804
Surface Science	2	1.942

-\* 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.

## **CITATIONS (6682\* till 27/01/2022, source SCOPUS)**

**h-index: 39**

<i>Article's number</i>	<i>Citations from Journals</i>
<u>3</u>	73
<u>4</u>	2
<u>5</u>	63
<u>6</u>	76
<u>7</u>	73
<u>8</u>	19
<u>9</u>	6
<u>10</u>	25
<u>11</u>	6
<u>12</u>	10
<u>13</u>	29
<u>14</u>	2
<u>15</u>	147
<u>16</u>	98
<u>17</u>	196
<u>18</u>	2
<u>19</u>	86
<u>20</u>	485
<u>21</u>	1505
<u>22</u>	318
<u>23</u>	111
<u>24</u>	18
<u>25</u>	37
<u>26</u>	38
<u>27</u>	141
<u>28</u>	10
<u>29</u>	18
<u>30</u>	46
<u>31</u>	54
<u>32</u>	10
<u>33</u>	184
<u>34</u>	409
<u>35</u>	116

<i>Article's number</i>	<i>Citations from Journals</i>
<u>36</u>	69
<u>37</u>	11
<u>38</u>	64
<u>39</u>	19
<u>40</u>	13
<u>41</u>	104
<u>42</u>	62
<u>43</u>	127
<u>44</u>	61
<u>45</u>	149
<u>46</u>	54
<u>47</u>	2
<u>48</u>	25
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<u>65</u>	1
<u>66</u>	22
<u>67</u>	4
<u>68</u>	10
<u>69</u>	7

<i>Article's number</i>	<i>Citations from Journals</i>
<u>73</u>	139
<u>74</u>	244
<u>75</u>	5
<u>76</u>	232
<u>77</u>	34
<u>78</u>	39
<u>80</u>	40
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<u>84</u>	15
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<u>89</u>	25
<u>91</u>	11
<u>92</u>	10
<u>93</u>	11
<u>94</u>	19
<u>95</u>	16
<u>96</u>	15
<u>97</u>	10
<u>98</u>	18
<u>99</u>	3
<u>100</u>	5
<u>101</u>	11
<u>102</u>	10
<u>103</u>	3
<u>104</u>	4
<u>105</u>	4
<u>106</u>	7
<u>109</u>	2
<u>111</u>	2

\* Self-citations and citations from co-authors are not included. In the table, citations to books chapters are not also included, and thus the sum of the citations in the table is slightly smaller than the total number.