

**ANEXA 2****STANDARDE MINIMALE ALE UNIVERSITĂȚII**

FACULTATEA	FUNCȚIA DIDACTICĂ: Lector Universitar/Sef Lucrari/CS III
Fizică	<p>Îndeplinirea standardelor minimale obligatorii stabilite de comisia Fizica din cadrul CNATDCU:</p> <p>1. $I^* \geq 1$; $P^* \geq 1$</p> <p>2. Membru în echipa unui proiect de cercetare câștigat prin competiție națională sau internațională</p> <p><i>*I și P sunt definite conform metodologiei CNATDCU (M.O. 890.27.12.2012), P fiind suma scorurilor de influență a tuturor articolelor publicate ca autor principal sau corespondent iar I suma scorurilor de influență ale tuturor articolelor împărțita la numarul de autori efectivi.</i></p>

Îndeplinirea standardelor minimale obligatorii stabilite de comisia Fizică din cadrul CNATDCU precum și a celor adiționale (condiții interne UAIC):

		Condiție MINIMĂ	REALIZAT
		Indicator	Indicator
Activitatea de cercetare (A1)	1.1 Factor de impact cumulat din articole publicate în reviste cotate ISI Web of Science (I)	$I \geq 1$	I=4.18
	1.2 Articole în reviste cotate ISI Web of Science ca autor principal/corespondent (P)	$P \geq 1$	P=7
	1.3 Granturi/Proiecte castigate prin competiție	1 (membru)	1 (membru/responsabil)



Lista explicită a indicatorilor realizați pentru fiecare activitate A1 (1.1., 1.2 și 1.3):

1.1: Articole în reviste ISI Web of Science

Titlul articolului	Autorii articolului/ n_i^{ef}	a_i	a_i/n_i^{ef}
<i>Epitaxial growth of Au on Ge(001) surface: Photoelectron spectroscopy measurements and first-principles calculations, Thin Solid Films 552, 241-249 (2014)</i>	D.G. Popescu, M.A. Husanu	0.456	0.228
<i>Nanomechanical characterization of bioglass films synthesized by magnetron sputtering, Thin Solid Films 553, 166-172 (2014)</i>	A.C. Popa, V.M.F. Marquez, G.E. Stan, M.A. Husanu, A.C. Galca, C. Ghica, D.U Tulyaganov, A.F. Lemos, J.M.F. Ferreira	0.456	0.072
<i>The role of ambient gas and pressure on the structuring of hard diamond-like carbon films synthesized by pulsed laser deposition, Materials 8, 3284-3305 (2015)</i>	Popescu, A.C. , Stan, G.E. , Duta, L. , Nita, C. , Popescu, C. , Surdu, V.-A. , Husanu, M.-A. , Bita, B. , Ghisleni, R. , Himcinschi, C. , Craciun, V.	0.77	0.11
<i>Spectro-microscopic photoemission evidence of charge uncompensated areas in Pb(Zr,Ti)O₃(001) layers, Phys. Chem. Chem. Phys. 17, 509 (2015)</i>	D.G. Popescu, M.A. Husanu, L. Trupina, L. Hrib, L. Pintilie, A. Barinov, S. Lizzit, P. Lacovig, C.M. Teodorescu	1.184	0.187
<i>Surface topography to reflectivity mapping in two-dimensional photonic crystals designed in germanium, Applied Surface Science 355, 1186-1191 (2015)</i>	M.A. Husanu , C.P. Ganea , I. Anghel , C. Florica , O. Rasoga , D.G. Popescu	0.55	0.103
<i>Influence of hole depletion and depolarizing field on the BaTiO₃/La_{0.6}Sr_{0.4}MnO₃ interface electronic structure revealed by photoelectron spectroscopy and first-principles calculations, Phys. Rev. B 92, 235442 (2015)</i>	D.G. Popescu, N. Barrett, C.Chirila, I. Pasuk, M.A. Husanu	1.331	0.266
<i>Dimensionality-driven metal-insulator-transition in spin-orbit coupled SrIrO₃, Phys. Rev. Lett. 119, 256404 (2017)</i>	P. Schütz, D. Di Sante, L. Dudy, J. Gabel, M. Stübinger, M. Kamp, Y. Huang, M. Capone, M.-A. Husanu, V. Strocov, G. Sangiovanni, M. Sing, R. Claessen	3.226	0.358
<i>Discovery of Lorentz-violating Weyl fermion semimetal state in LaAlGe materials, Science Advances, 3(6), e1603266 (2017)</i>	Su-Yang Xu, Nasser Alidoust, Guoqing Chang, Hong Lu, Bahadur Singh, Ilya Belopolski, Daniel Sanchez, Xiao Zhang, Guang Bian, Hao Zheng, Marius-Adrian Husanu, Yi Bian, Shin-Ming Huang, Chuang-Han Hsu, Tay-Rong Chang,	5.413	0.416



	Horng-Tay Jeng, Arun Bansil, Vladimir N. Strocov, Hsin Lin, Shuang Jia, M. Zahid Hasan		
<i>k-space imaging of anisotropic 2D electron gas in GaN/GaAlN high-electron-mobility transistor heterostructures, Nature Commun 9, 2653 (2018)</i>	L. L. Lev, I. O. Maiboroda, M.-A. Husanu, E. S. Grichuk, N. K. Chumakov, I. S. Ezubchenko, I. A. Chernykh, X. Wang, B. Tobler, T. Schmitt, M. L. Zanaveskin, V. G. Valeev & V. N. Strocov	5.684	0.632
<i>Orbital Ordering of the Mobile and Localized Electrons at Oxygen-Deficient LaAlO₃/SrTiO₃ Interfaces, ACS Nano, 12(8), 7927–7935 (2018)</i>	A. Chikina, F. Lechermann, M.A. Husanu, M. Caputo, C. Cancellieri , X. Wang, T. Schmitt, M. Radovic, and V. N. Strocov	4.045	0.578
<i>Electronic band structure of the buried SiO₂/SiC interface investigated by soft x-ray ARPES, Appl. Phys. Lett. 110, 132101 (2017)</i>	J. Woerle1, F. Bisti, M.-A. Husanu, V. N. Strocov, C. W. Schneider, H. Sigg, J. Gobrecht, U. Grossner, and M. Camarda	0.969	0.138
<i>Double Band Inversion in α-Sn: Appearance of Topological Surface States and the Role of Orbital Composition, Phys. Rev. B 95, 161117(R) (2017)</i>	Victor A. Rogalev, Tomáš Rauch, Markus R. Scholz, Felix Reis, Lenart Dudy, Andrzej Fleszar, Marius-Adrian Husanu, Vladimir N. Strocov, Jürgen Henk, Ingrid Mertig, Jörg Schäfer, and Ralph Claessen	1.227	0.144
<i>Spectroscopic perspective on the interplay between electronic and magnetic properties of magnetically doped topological insulators, Phys. Rev. B 96, 184402 (2017)</i>	J. A. Krieger, Cui-Zu Chang, M.-A. Husanu, D. Sostina, A. Ernst, M. M. Otrokov, T. Prokscha, T. Schmitt, A. Suter, M. G. Vergniory, E. V. Chulkov, J. S. Moodera, V. N. Strocov, and Z. Salman	1.227	0.129
<i>Optimized silicon reinforcement of carbon coatings by pulsed laser technique for superior functional biomedical surfaces fabrication, Biofabrication, 9(2), 025029 (2017)</i>	I N Mihailescu, D Bociaga2, G Popescu-Pelin, G E Stan, L Duta, G Socol, M C Chifiriuc, C Bleotu, V Lazar, M A Husanu, I Zgura, F Miculescu, I Negut and C Hapciuc	1.342	0.141
<i>Bioglass implant-coating interactions in synthetic physiological fluids with varying degrees of biomimicry, Int. J. Nanomedicine, 12, 683 (2017)</i>	A. C. Popa; G. E. Stan; M.A. Husanu; I. Mercioniu; Santos, L. F.; Fernandes, H. R.; Ferreira, J. M. F.	0.983	0.156
<i>Impact on Ferroelectricity and Band Alignment of Gradually Grown Au on BaTiO₃, Phys. Status Solidi – RRL, 13(7), 1900077 (2019)</i>	Popescu, D. G. ; Husanu, M. A. ; Chirila, C.; Pintilie, L. ; Teodorescu, C. M	0.679	0.136
<i>Probing single-unit-cell resolved electronic structure modulations in oxide superlattices with standing-wave photoemission, Phys. Rev. B 100(12), 125119 (2019)</i>	Yang, W. ; Chandrasena, R. U. ; Gu, M. ; dos Reis, R. M. S. ; Moon, E. J. ; Arab, Arian ; Husanu, M-A ; Nemsak, S. ; Gullikson, E. M. ; Ciston, J. ; Strocov, V. N. ; Rondinelli, J. M. ; May, S. J. ; Gray, A. X,	1.018	0.102
<i>Electronic phase separation at LaAlO₃/SrTiO₃ interfaces tunable by oxygen deficiency, Phys. Rev. Mater. 3(10), 106001 (2019)</i>	Strocov, V. N. ; Chikina, A. ; Caputo, M. ; Husanu, M-A ; Bisti, F. ; Bracher, D. ; Schmitt, T. ; Granozio, F. Miletto ; Vaz, C. A. F. ; Lechermann, F	1.154	0.154
<i>Polarization-dependent magnetism of the Ni/BaTiO₃ interface, Phys.</i>	Bocirnea, A. E. ; Popescu, D. G. ; Chirila, C. ; Costescu, R. M. ; Kuncser, V ; Stancu, V ;	1.154	0.153



Rev. Mater. 4(3), 034402 (2020)	Trupina, L. ; Pasuk, I ; Vlaicu, A. M. ; Husanu, M. A,		
Electron-polaron dichotomy of charge carriers in perovskite oxides, Communications Physics 3 (1), 62 (2020)	Husanu, M-A ; Vistoli, L. ; Verdi, C. ; Sander, A. ; Garcia, V ; Rault, J. ; Bisti, F. ; Lev, L. L. ; Schmitt, T. ; Giustino, F. ; Mishchenko, A. S. ; Bibes, M. ; Strocov, V. N,	1.96	0.21

$$I = \sum_i a_i = 4.18$$

1.2: Articole în reviste ISI Web of Science ca autor principal

Nr.	Titlul articolului	Autorii articolului	a_i
1	<i>Resonant Raman scattering and absorption spectroscopy studies on individual carbon nanotubes in surfactant solutions, Journal of Optoelectronics and Advanced Materials, 10(7), 1722-1726, (2008)</i>	Husanu, M; Baibarac, M; Preda, N, Baltog	0.113
2	<i>Particular signature of isolated and bundled carbon nanotubes in their Raman spectra, Romanian Reports In Physics, 60(3), 691-699, (2008)</i>	Husanu, M; Baibarac, M; Baltog, I	0.095
3	<i>Non-Covalent Functionalization Of Carbon Nanotubes: Experimental Evidence For Isolated And Bundled Tubes, Physica E, 41(1) ,66-69, (2008)</i>	Husanu, M; Baibarac, M; Baltog	0.384
4	<i>Electron-Phonon Interaction In Zinc Oxide. Plasmon-Optical Phonon Coupled Modes, Physica Status Solidi B,246(1), 87-91, (2009)</i>	M.A. Husanu	0.456
5	<i>Absorption And Luminescence Properties Of C70 Aggregates In Solvent Mixtures, Romanian Journal of Physics, 54(5-6), 529-538, (2009)</i>	Husanu AM,Baltog I, Baibarac M, Preda N, Mihut L, Velula T, Bucur C	0.095
6	<i>Au-Ge bonding on uniformly Au-covered Ge(001) surface, Phys. Status Solidi-Rapid Res. Lett. 7, 274-277 (2013)</i>	D.G. Popescu, M.A. Husanu	0.875
7	<i>Epitaxial growth of Au on Ge(001) surface: Photoelectron spectroscopy measurements and first-principles calculations, Thin Solid Films 552, 241-249 (2014)</i>	D.G. Popescu, M.A. Husanu	0.456
8	<i>Influence of hole depletion and depolarizing field on the BaTiO₃/La_{0.6}Sr_{0.4}MnO₃ interface electronic structure revealed by photoelectron spectroscopy and first-principles calculations, Phys. Rev. B. 92, 235442(2015)</i>	D.G. Popescu, N. Barrett, C.Chirila, I. Pasuk, M.A. Husanu	1.228
9	<i>Correlation of optical reflectivity with numerical calculations for a two-dimensional photonic crystal designed in Ge, Eur. Phys. J. D 69, 273 (2015)</i>	M.A. Husanu, D.G. Popescu, C.P. Ganea, I. Anghel, C. Florica	0.454
10	<i>Surface topography to reflectivity mapping in</i>	M.A. Husanu, C.P. Ganea, I. Anghel, C. Florica, O. Rasoga,	0.55



	<i>two-dimensional photonic crystals designed in germanium, Appl. Surf. Sci. 355, 1186-1191 (2015)</i>	D.G. Popescu	
11	<i>Photoelectron spectroscopy and spectro-microscopy of Pb(Zr,Ti)O-3 (111) thin layers: Imaging ferroelectric domains with binding energy contrast, Applied Surface Science 352, 73-81 (2015)</i>	M.A. Husanu, D.G. Popescu, C.A. Tache, N.G. Apostol, A. Barinov, S. Lizzit, P. Lacovic, C.M. Teodorescu	0.55
12	<i>Electron-polaron dichotomy of charge carriers in perovskite oxides, Communications Physics 3 (1), 62 (2020)</i>	Husanu, M-A ; Vistoli, L. ; Verdi, C. ; Sander, A. ; Garcia, V ; Rault, J. ; Bisti, F. ; Lev, L. L. ; Schmitt, T. ; Giustino, F. ; Mishchenko, A. S. ; Bibes, M. ; Strocov, V. N,	1.96
$P = \sum_i a_i = 7.216$			

1.3 Granturi/Proiecte castigate prin competiție

- 1) *Ultrafast laser Facility with Optimized high order harmonics UltraViolet sources (UFOUV)*: Institutul National de Cercetare-Dezvoltare pentru Fizica Plasmei, Laserelor si Radiatiei – INFPR Bucuresti, PN 1/2012, 2012-2015
(Membru/Responsabil)

Dr. Marius-Adrian Hușanu
Marius Husanu