

## Anexa 2: Fișă de autoevaluare privind standardele minimale pe domenii ale Universității

### Domeniul fizică: îndeplinirea standardelor minimale CNATDCU

#### Sinteza rezultatelor

Criteriu	Punctaj realizat	Punctaj minim necesar pentru profesor	Procentaj de realizare a punctajului minim
<b>1.Activitatea didactică și profesională (indicator A)</b>	<b>7.49</b>	<b>2</b>	<b>374%</b>
<b>2.1 Activitatea de cercetare.</b> Articole științifice originale în extenso ca autor <b>(indicator I)</b>	<b>19.10</b>	<b>4</b>	<b>477%</b>
<b>2.2 Activitatea de cercetare.</b> Articole științifice originale în extenso ca prim autor sau autor corespondent <b>(indicator P)</b>	<b>33.82</b>	<b>4</b>	<b>845%</b>
<b>3. 1</b> <b>Recunoașterea impactului activității.</b> Citări în reviste științifice <b>(indicator C)</b>	<b>245.53</b>	<b>40</b>	<b>613%</b>
<b>3. 2</b> <b>Recunoașterea impactului activității.</b> Factorul Hirsch <b>(indicator h)</b>	<b>24</b>	<b>10</b>	<b>240%</b>
<b>Punctajul total CNATDCU (indicator T)</b>	<b>51.02</b>	<b>12</b>	<b>425%</b>

## Detalierea activităților

### Activitatea didactică și profesională (indicator A)

#### A2. Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor/ Review-uri în reviste cotate ISI

[A2.1] **Autori:** Enachescu, C., Nishino, M., Miyashita, S.

**Titlu:** Theoretical Descriptions of Spin-Transitions in Bulk Lattices

**Carte:** "Spin Crossover Materials, Properties and Applications", Ed. M. Halcrow, John Wiley & Sons, Ltd. Published 2013 (pag.455-474)

*punctaj: 1/3=0.33*

[A2.2] **Autori:** Gudyma, I., Enachescu, C. and Maksymov, A,

**Titlu:** Kinetics of Nonequilibrium Transition in Spin-Crossover Compounds

**Carte:** "Nanocomposites, Nanophotonics, Nanobiotechnology, and Applications", Springer International Publishing, Switzerland 2015 (pag.375-403)

*punctaj: 1/3=0.33*

[A2.3] **Autori:** Enachescu, C. and Nicolazzi, W,

**Titlu:** Elastic models, lattice dynamics and finite size effects in molecular spin crossover systems

**Review in:** Comptes Rendus Chimie, doi:10.1016/j.crci.2018.02.004, 2018

*punctaj: 1/2=0.5*

#### A5. Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor

[A5.1] **Autori:** Stancu, A; Enachescu, C; Tanasa, R; Linares, J; Codjovi, E; Varret, F,

**Titlu:** Forc Experimental Method For Physical Characterization Of Spin Crossover Solids,

**Carte** "Frontiers In Condensed Matter Physics Research"- Nova Science Publishers, Inc, New York, Usa, 2006, ISBN: 1-59454-829-3

*punctaj: 0.2/6=0.03*

[A5.2] **Autori:** Enachescu, C; Tanasa, R; Stancu, A; Linares, J; Varret, F,

**Titlu:** Preisach Model For Spin Transition Compounds,

**Carte** "Preisach Memorial Book", A. Ivany Ed, Akademiai Kiado, Budapest, Pp 175-186, ISBN 9630582643

*punctaj: 0.2/5=0.04*

#### A10. Director/ responsabil pentru proiecte de cercetare in valoare de V euro câștigate prin competiție națională sau internațională

[A10.1] CEEEX - tineri cercetatori - Studiu experimental si teoretic al interactiunilor in compusii cu tranzitie de spin (director)

*Valoare lei: 135.000, Curs BNR 2006: 3.58, Valoare euro: 37709, Punctaj: 0.37*

[A10.2] Proiect TE 185/2010 Cercetari experimentale si teoretice asupra proprietatilor de comutare si relaxare ale materialelor nanoparticulate cu tranzitie de spin (PROCORE) (director) -2010-2013

*Valoare lei: 750.000, Curs BNR 2010: 4.20, Valoare euro: 178571, Punctaj: 1.78*

**[A10.3]** Proiect PCCE 9/2010 O nouă generație de paradigme în magnetismul molecular și știința materialelor, anizotropia magnetică în unități complexe, sisteme supramoleculare și la nano-scală, (responsabil echipă) 2010-2013

*Valoare lei: 1210720, Curs BNR 2010: 4.20, Valoare euro: 288266, **Punctaj: 2.88***

**[A10.2]** Proiect TE 151/2015 Micro și nanoparticule cu tranziție de spin încorporate în diverse medii: studiu experimental și teoretic (MINATIN) (director) -2010-2013- 750.000 lei

*Valoare lei: 549700, Curs BNR 2015: 4.44, Valoare euro: 123806, **Punctaj: 1.23***

## 2.1 Activitatea de cercetare. Articole științifice originale în extenso ca autor (indicator I)

## 2.2 Activitatea de cercetare. Articole științifice originale în extenso ca prim autor sau autor corespondent (indicator P)

### 3. 1 Recunoașterea impactului activității. Citări în reviste științifice (indicator C)

- [1] Stoleriu, L; Nishino, M; Miyashita, S; Stancu, A; Hauser, A; Enachescu, C, Cluster evolution in molecular three-dimensional spin-crossover systems, *PHYS REV B*, vol. 96(6), art.no. 064115, (2017) 10.1103/PHYSREVB.96.064115  
autori=6 autori\_eff=5.500 AIS=1.224 prim=1.224 inf=0.223 citari/valide=0 / 0 cit=0.000
- [2] Ati, M; Enachescu, C; Bouamrane, R, Langevin dynamics simulation of a one-dimensional linear spin chain with long-range interactions, *EUR PHYS J B*, vol. 90(7), art.no. 133, (2017) 10.1140/EPJB/E2017-80070-3  
autori=3 autori\_eff=3.000 AIS=0.451 prim=0.000 inf=0.150 citari/valide=0 / 0 cit=0.000
- [3] Gaina, R; Enachescu, C, NUCLEATION IN SPIN TRANSITION MOLECULAR MAGNETS: A PARALLEL BETWEEN ISING-LIKE AND MECHANOELASTIC MODELS, *P ROMANIAN ACAD A*, vol. 18(3), pp. 215-222, (2017)  
autori=2 autori\_eff=2.000 AIS=0.216 prim=0.216 inf=0.108 citari/valide=0 / 0 cit=0.000
- [4] Enachescu, C; Stoleriu, L; Nishino, M; Miyashita, S; Stancu, A; Lorenc, M; Bertoni, R; Cailleau, H; Collet, E, Theoretical approach for elastically driven cooperative switching of spin-crossover compounds impacted by an ultrashort laser pulse, *PHYS REV B*, vol. 95(22), art.no. 224107, (2017) 10.1103/PHYSREVB.95.224107  
[4.1] Parpiiev, T; Servol, M; Lorenc, M; Chaban, I; Lefort, R; Collet, E; Cailleau, H; Ruello, P; Daro, N; Chastanet, G; Pezeril, T, Ultrafast non-thermal laser excitation of gigahertz longitudinal and shear acoustic waves in spin-crossover molecular crystals [Fe(PM-AzA)(2)(NCS)(2)], *APPL PHYS LETT*, vol. 111(15), art.no. 151901, (2017) 10.1063/1.4996538  
autori=9 autori\_eff=7.000 AIS=1.224 prim=1.224 inf=0.175 citari/valide=1 / 1 cit=0.143
- [5] Enachescu, C; Hauser, A, Study of switching in spin transition compounds within the mechanoelastic model with realistic parameters, *PHYS CHEM CHEM PHYS*, vol. 18(30), pp. 20591-20599, (2016) 10.1039/C6CP02806C  
autori=2 autori\_eff=2.000 AIS=1.123 prim=1.123 inf=0.561 citari/valide=0 / 0 cit=0.000
- [6] Enachescu, C; Tanasa, R; Stancu, A; Tissot, A; Laisney, J; Boillot, ML, Matrix-assisted relaxation in Fe(phen)(2)(NCS)(2) spin-crossover microparticles, experimental and theoretical investigations, *APPL PHYS LETT*, vol. 109(3), art.no. 031908, (2016) 10.1063/1.4959262  
[6.1] Gudyma, I; Maksymov, A, Reprint of "Surface-environment effects in spin crossover solids", *APPL SURF SCI*, vol. 424, pp. 258-263, , (2017) 10.1016/J.APSUSC.2017.05.247  
[6.2] Kumar, KS; Ruben, M, Emerging trends in spin crossover (SCO) based functional materials and devices, *COORDIN CHEM REV*, vol. 346, pp. 176-205, , (2017) 10.1016/J.CCR.2017.03.024  
[6.3] Gudyma, I; Maksymov, A, Surface-environment effects in spin crossover solids, *APPL SURF SCI*, vol. 407, pp. 93-98, , (2017) 10.1016/J.APSUSC.2017.02.124  
autori=6 autori\_eff=5.500 AIS=0.966 prim=0.966 inf=0.176 citari/valide=3 / 3 cit=0.545
- [7] Bertoni, R; Lorenc, M; Cailleau, H; Tissot, A; Laisney, J; Boillot, ML; Stoleriu, L; Stancu, A; Enachescu, C; Collet, E, Elastically driven cooperative response of a molecular material impacted by a laser pulse, *NAT MATER*, vol. 15(6), pp. 606-+, (2016) 10.1038/NMAT4606  
[7.1] Lasco, O; Boillot, ML; Bellec, A; Guillot, R; Riviere, E; Mazerat, S; Nowak, S; Morineau, D; Brosseau, A; Miserque, F; Repain, V; Mallah, T, The disentangling of hysteretic spin transition, polymorphism and metastability in bistable thin films formed by sublimation of bis(scorpionate) Fe(II) molecules, *J MATER CHEM C*, vol. 5(42), pp. 11067-11075, , (2017) 10.1039/C7TC03276E  
[7.2] Nishino, M; Miyashita, S; Rikvold, PA, Nontrivial phase diagram for an elastic interaction model of spin crossover materials with antiferromagnetic-like short-range interactions, *PHYS REV B*, vol. 96(14), art.no. 144425, (2017) 10.1103/PHYSREVB.96.144425  
[7.3] Magott, M; Stefanczyk, O; Sieklucka, B; Pinkowicz, D, Octacyanidotungstate(IV) Coordination Chains Demonstrate a Light-Induced Excited Spin State Trapping Behavior and Magnetic Exchange Photoswitching, *ANGEW CHEM INT EDIT*, vol. 56(43), pp. 13283-13287, , (2017) 10.1002/ANIE.201703934  
[7.4] Barskaya, IY; Veber, SL; Suturina, EA; Sherin, PS; Maryunina, KY; Artiukhova, NA; Tretyakov, EV; Sagdeev, RZ; Ovcharenko, VI; Gritsan, NP; Fedin, MV, Spin-state-correlated optical properties of copper(II)-nitroxide based molecular magnets, *DALTON T*, vol. 46(38), pp. 13108-13117, , (2017) 10.1039/C7DT02719B  
[7.5] Parpiiev, T; Servol, M; Lorenc, M; Chaban, I; Lefort, R; Collet, E; Cailleau, H; Ruello, P; Daro, N; Chastanet, G; Pezeril, T, Ultrafast non-thermal laser excitation of gigahertz longitudinal and shear acoustic waves in spin-crossover molecular crystals [Fe(PM-AzA)(2)(NCS)(2)], *APPL PHYS LETT*, vol. 111(15), art.no. 151901, (2017) 10.1063/1.4996538  
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[7.7] Buron-Le Cointe, M; Collet, E; Toudic, B; Czarnecki, P; Cailleau, H, Back to the Structural and Dynamical Properties of Neutral-Ionic Phase Transitions, *CRYSTALS*, vol. 7(10), art.no. 285, (2017) 10.3390/CRYST7100285  
[7.8] Kumar, KS; Ruben, M, Emerging trends in spin crossover (SCO) based functional materials and devices, *COORDIN CHEM REV*, vol. 346, pp. 176-205, , (2017) 10.1016/J.CCR.2017.03.024  
[7.9] Chergui, M; Collet, E, Photoinduced Structural Dynamics of Molecular Systems Mapped by Time-Resolved X-ray Methods, *CHEM REV*, vol. 117(16), pp. 11025-11065, , (2017) 10.1021/ACS.CHEMREV.6B00831  
[7.10] Mariette, C; Trzop, E; Zerdane, S; Fertey, P; Zhang, DP; Valverde-Munoz, FJ; Real, JA; Collet, E, Formation of local spin-state concentration waves during the relaxation from a photoinduced state in a spin-crossover polymer, *ACTA CRYSTALLOGR B*, vol. 73, pp. 660-668, , (2017) 10.1107/S2052520617007685  
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[7.12] Park, ST; van der Veen, RM, Modeling nonequilibrium dynamics of phase transitions at the nanoscale: Application to spin-crossover, *STRUCT DYNAM-US*, vol. 4(4), art.no. 044028, (2017) 10.1063/1.4985058  
[7.13] Zerdane, S; Wilbraham, L; Cammarata, M; Lasco, O; Riviere, E; Boillot, ML; Ciofini, I; Collet, E, Comparison of structural dynamics and coherence of d-d and MLCT light-induced spin state trapping, *CHEM SCI*, vol. 8(7), pp. 4978-4986, , (2017) 10.1039/C6SC05624E

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- [7.17] Nishino, M; Miyashita, S, Anomalous finite-size effect due to quasidegenerate phases in triangular antiferromagnets with long-range interactions and mapping to the generalized six-state clock model, *PHYS REV B*, vol. 94(18), art.no. 184434, (2016) 10.1103/PHYSREVB.94.184434
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- [7.19] Johansson, JO; Kim, JW; Allwright, E; Rogers, DM; Robertson, N; Bigot, JY, Directly probing spin dynamics in a molecular magnet with femtosecond time-resolution, *CHEM SCI*, vol. 7(12), pp. 7061-7067, , (2016) 10.1039/C6SC01105E
- [7.20] Bertoni, R; Lorenc, M; Graber, T; Henning, R; Moffat, K; Letard, JF; Collet, E, Cooperative elastic switching vs. laser heating in [Fe(phen)(2)(NCS)(2)] spin-crossover crystals excited by a laser pulse, *CRYSTENGCOMM*, vol. 18(38), pp. 7269-7275, , (2016) 10.1039/C6CE00659K  
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- [8] Atitoaie, A; Stoleriu, L; Tanasa, R; Stancu, A; Enachescu, C, Thermal hysteresis kinetic effects of spin crossover nanoparticulated systems studied by FORC diagram method on an Ising-like model, *PHYSICA B*, vol. 486, pp. 138-141, (2016) 10.1016/J.PHYSB.2015.08.035  
autori=5 autori\_eff=5.000 AIS=0.295 prim=0.000 inf=0.059 citari/valide=0 / 0 cit=0.000
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- [9] Stan, RM; Gaina, R; Enachescu, C; Tanasa, R; Stancu, A; Bronisz, R, Kinetic effects on double hysteresis in spin crossover molecular magnets analyzed with first order reversal curve diagram technique, *J APPL PHYS*, vol. 117(17), art.no. 17B323, (2015) 10.1063/1.4918961
- [9.1] Palii, A; Ostrovsky, S; Reu, O; Tsukerblat, B; Decurtins, S; Liu, SX; Klokishner, S, Microscopic theory of cooperative spin crossover: Interaction of molecular modes with phonons, *J CHEM PHYS*, vol. 143(8), art.no. 084502, (2015) 10.1063/1.4928642  
autori=6 autori\_eff=5.500 AIS=0.637 prim=0.637 inf=0.116 citari/valide=1 / 1 cit=0.182
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- [10.1] Mikolasek, M; Felix, G; Peng, H; Rat, S; Terki, F; Chumakov, AI; Salmon, L; Molnar, G; Nicolazzi, W; Bousseksou, A, Finite-size effects on the lattice dynamics in spin crossover nanomaterials. I. Nuclear inelastic scattering investigation, *PHYS REV B*, vol. 96(3), art.no. 035426, (2017) 10.1103/PHYSREVB.96.035426
- [10.2] Gudyma, I; Maksymov, A; Dimian, M, Hysteretic behavior of spin-crossover noise driven system, *PHYSICA B*, vol. 486, pp. 44-47, , (2016) 10.1016/J.PHYSB.2016.01.019  
autori=5 autori\_eff=5.000 AIS=0.637 prim=0.000 inf=0.127 citari/valide=2 / 2 cit=0.400
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- [11.1] Mariette, C; Trzop, E; Zerdane, S; Fertey, P; Zhang, DP; Valverde-Munoz, FJ; Real, JA; Collet, E, Formation of local spin-state concentration waves during the relaxation from a photoinduced state in a spin-crossover polymer, *ACTA CRYSTALLOGR B*, vol. 73, pp. 660-668, , (2017) 10.1107/S2052520617007685
- [11.2] Hernandez, EM; Zheng, SP; Shepherd, HJ; Yufit, DS; Ridier, K; Bedoui, S; Nicolazzi, W; Velazquez, V; Bonnet, S; Molnar, G; Bousseksou, A, Spatially Resolved Investigation and Control of the Bistability in Single Crystals of the [Fe(bbpya)(NCS)(2)] Spin Crossover Complex, *J PHYS CHEM C*, vol. 120(48), pp. 27608-27617, , (2016) 10.1021/ACS.JPC.6B10258
- [11.3] Gudyma, IV; Ivashko, VV, Spin-Crossover Molecular Solids Beyond Rigid Crystal Approximation, *NANOSCALE RES LETT*, vol. 11, art.no. 196, (2016) 10.1186/S11671-016-1398-5
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- [11.5] Slimani, A; Boukheddaden, K; Yamashita, K, Effect of intermolecular interactions on the nucleation, growth, and propagation of like-spin domains in spin-crossover materials, *PHYS REV B*, vol. 92(1), art.no. 014111, (2015) 10.1103/PHYSREVB.92.014111
- [11.6] Fedin, MV; Veber, SL; Bagryanskaya, EG; Romanenko, GV; Ovcharenko, VI, Spatial distribution of phases during gradual magnetostructural transitions in copper(II)-nitroxide based molecular magnets, *DALTON T*, vol. 44(43), pp. 18823-18830, , (2015) 10.1039/C5DT03441H  
autori=6 autori\_eff=5.500 AIS=1.229 prim=1.229 inf=0.223 citari/valide=6 / 6 cit=1.091
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- [12.2] Zhao, T; Boldog, I; Janiak, C; Liu, YJ, Effect of Metal-Organic Frameworks on the Spin-Transition Behavior of [Fe(HB(pz)(3))(2)], *CHINESE J INORG CHEM*, vol. 33(8), pp. 1330-1338, , (2017) 10.1186/CJIC.2017.178
- [12.3] Mikolasek, M; Felix, G; Peng, H; Rat, S; Terki, F; Chumakov, AI; Salmon, L; Molnar, G; Nicolazzi, W; Bousseksou, A, Finite-size effects on the lattice dynamics in spin crossover nanomaterials. I. Nuclear inelastic scattering investigation, *PHYS REV B*, vol. 96(3), art.no. 035426, (2017) 10.1103/PHYSREVB.96.035426
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- [12.5] Robertson, K; Flandrin, PB; Shepherd, HJ; Wilson, CC, (Fe(Htrz)2(trz)) (BF4) nanoparticle production in a milli-scale segmented flow crystalliser, *CHIM OGII*, vol. 35(1), pp. 19-22, , (2017)
- [12.6] Pezeshki-Nejad, Z; Ramazani, A; Alikhanzadeh-Arani, S; Almasi-Kashi, M; Salavati-Niasari, M, Influence of the surfactant and annealing rate on the morphology, magnetic and structural characteristics of Co2FeAl nanoparticles, *J MAGN MAGN MATER*, vol. 412, pp. 243-249, , (2016) 10.1016/J.JMMM.2016.04.018
- [12.7] Gudyma, I; Maksymov, A; Dimian, M, Hysteretic behavior of spin-crossover noise driven system, *PHYSICA B*, vol. 486, pp. 44-47, , (2016) 10.1016/J.PHYSB.2016.01.019
- [12.8] Deeth, RJ, Molecular Discovery in Spin Crossover, , vol. , pp. 85-102, , (2016)
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autori=4 autori\_eff=4.000 AIS=0.483 prim=0.000 inf=0.121 citari/valide=11 / 11 cit=2.750

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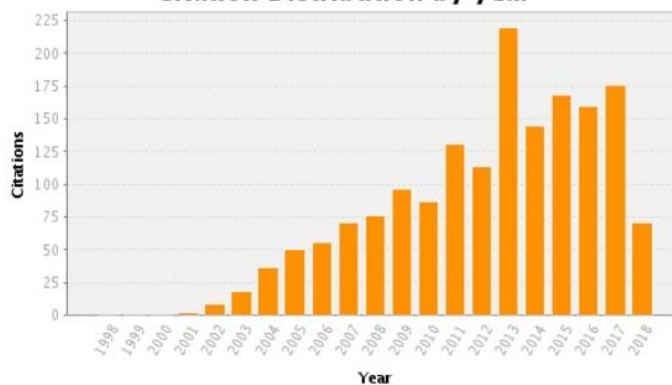
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### 3. 1 Recunoașterea impactului activității. Factorul Hirsch (indicator h)

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