

Fisa de verificare a indeplinirii standardelor minimale necesare si obligatorii pentru conferirea titlurilor didactice din invatamantul superior si a gradelor profesionale in cercetare

Comisia fizica

Ordin 6.129/2016

Benea Diana-Ancuta			
Funcția actuală: CS II			
		Condiții minimale abilitare	Valori calculate
1.	Activitatea didactică și profesională	$A \geq 2$	3.6
2.	Activitatea de cercetare	$I \geq 4$ $P \geq 4$	I=7.56; P=9.26
3.	Citari în reviste ISI	$C \geq 40$	75.99
	Indice Hirsch	$h \geq 10$	11
	Punctaj total CNADTCU $T=A+P/2+I/2+C/20+h/5$	$T \geq 12$	18.01

1. Activitatea didactică/profesională		
Nr.	Tipul activităților	Indicatori
1	Carti în edituri internaționale recunoscute Web of Science (WOS) în calitate de autor	$A_1=0$
2	Capitole în carti în edituri internaționale recunoscute WOS în calitate de autor/Review-uri cotate ISI	$A_2=0$
3	Carti în edituri internaționale recunoscute WOS în calitate de editor	$A_3=0$
4	Carti, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale, ca autor; note interne, prezentări susținute pentru aprobarea sau analize de date în cadrul proiectelor mari	$A_4=1.0$
5	Capitole de carti în edituri naționale sau alte edituri internaționale ca autor	$A_5=0$
6	Lucrări în extensor (cel puțin 3 pagini) publicate în Proceedingsuri indexate ISI	$A_6=0$
7	Brevete internaționale de invenții	$A_7=0$
8	Brevete de invenții-naționale	$A_8=0$
9	Director/responsabil/coordinator pentru programen de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură (proiectele de cercetare se exclude)	$A_9=0$
10	Director/responsabil pentru proiecte de cercetare în valoare de V_i euro castigate prin competitive naționale și internaționale (fără proiectele de la pt. 9). Sumele în lei sau alte valute se convertesc în euro la cursul mediu din anul respectiv conform www.bnr.ro pentru perioada de după 1999 și la cursul din 1999 pentru perioada anterioară. Pentru responsabilii de grupuri se consideră doar suma aferentă grupului condus.	$A_{10}=2.6$
		A=3.6

2 Activitatea de cercetare		
Nr.	Tipul activitatilor	Indicatori
1	Articole originale in extenso ca autor	I=7.56
2	Articole originale in extensor ca prim autor sau autor correspondent, conform precizarilor de pe articol. Nu se iau in considerare articolele in care autorii sunt indicate in ordine alfabetica si candidatul este prim-autor exclusive datorita numelui acestuia si ordonarii alfabetice	P=9.26

3. Recunoasterea impactului cercetarii		
Nr.	Tipul activitatilor	Indicatori
1	Citari in reviste stiintifice cu factor de impact care se gasesc in InCities Journal Citations Reports sau in carti in edituri recunoascute WOS. Nu se iau in considerare citarile provenind din articole ce au ca autor sau coautor candidatul.	C = 75.99
2	Indice Hirsch	11

Detaliere valori

1. Activitatea Didactica/profesionala

- **A4** : Autor al cartii **D.Benea**, *Theoretical Description of Magnetic Compton Scattering and Magnetic Properties of Cr-chalcogenide Compounds*, Risoprint Cluj-Napoca, ISBN973-656-954-3 (0.5 puncte)
- **A4**: Prezentarea cu titlul '*Compton Scattering in KKR Green Function Approach*' sustinuta pentru analiza de date in cadrul proiectului *COST MP1306 EuSpec* la meetingul grupurilor de lucru (Workgroups -WG) de la Pilsen din 26.02.2015. Conferinta din cadrul COST este vizibila online la euspec.eu/meetings/workshops. Programul Workgroups este disponibil la hoc15.ntc.zcu.cz/wgmeeting.html (0.5 puncte)
- **A10**: Director al urmatoarelor proiecte de cercetare castigate prin competitive nationala:
 - Reponsabil partener (P1) al grantului *Magneti permanenti fara pamanturi rare cu eficienta energetica ridicata "MAGNEF"* PN-II-PT-PCCA-2013-4-0971, 274/2014, valoare totala pentru P1: 400.000 RON = 90090 EUR (Curs mediu BNR 2015: 1 Euro = 4.44 RON) Finantator: UEFISCDI
 - Director al grantului *Materiale noi de tip Heusler pentru aplicatii in spintronica (HEUSPIN)* PN-II-RU-TE-2014-0009, valoare totala 550.000RON (122472 Euro la cursul BNR de 1 Euro=4.49 RON din 2016). Finantator: UEFISCDI
 - Director al grantului *Functional magnetic materials for high energetic efficient devices (ENERMAG)* PNIII-P3-3.1-PM-RO-FR-2016-0057 (Brancusi) 24.000RON (5344 Euro la cursul BNR din 2016 1 Euro=4.4908 RON)
 - Director al grantului CEEX-RP Studiul proprietatilor magnetice ale compusilor intermetalici de tipul RCo5-xMx. Calculul structurii electronice de benzi. Nr.

contract 5943 /18.09.2006 (2006-2008) Valoare contract 140.000 RON = 41950 Euro (Curs BNR : 1EUR=3.3373 RON in 2007). Finantator: UEFISCSU
 Valoare totala granturi = 259.846 Euro; Total A₁₀ = 259.846 /100.00 = 2.6

2.Activitatea de cercetare

Nr.	Articol	Autor principal/ coresp.	AIS _i	n _i	n _i ^{ef}	AIS _i /n _i ^{ef}
1	<i>Investigations on compensated ferrimagnetism in the Mn₂Co_{0.5}V_{0.5}Al Heusler alloy,</i> Gavrea, R., Hirian, R., Isnard, O., Pop, V., Benea, D. , <i>Solid State Communications</i> 309,113812,	X	0.4	5	5	0.08
2	<i>Influence of ferromagnetic layer thickness on the magnetic properties of Cr/Fe_{1-x}Co_x bilayers,</i> S. Mican, D. Benea , A. Takacs, E. Mossang, O. Isnard and V. Pop, <i>J. Optoelectronics and Advanced Materials</i> 21, 407-417 (2019)		0.07	6	5.5	0.013
3	<i>Half-metallic compensated ferrimagnetism in the Mn-Co-V-Al Heusler alloys</i>	x	0.433	5	5	0.087
4	<i>Magnetic Compton profile of disordered Fe_{0.5}Ni_{0.5} and ordered FeNi alloys,</i> D. Benea, J.Minar, H. Ebert, L. Chioncel, <i>Phys. Rev. B</i> 97 144408 (2018)	x	1.090	4	4	0.273
5	<i>POSITRON ANNIHILATION SPECTROSCOPY FOR THE PURE AND NIOBIUM DOPED ZRCo(2)SN HEUSLER COMPOUND</i> Benea D., Ostlin A., J. A. Weber, E. Burzo and L. Chioncel, <i>Rom. Rep. Phys.</i> 70, 505 (2018)	x	0.296	5	5	0.059
6	<i>Scaling behavior of the Compton profile of alkali metals,</i> M. Sekania, W H Appelt, Diana Benea , H Ebert, D Vollhardt, L Chioncel, <i>Physica A</i> 489 (2018) 18		0.432	6	5.5	0.079
7	<i>Effects of Co for Mn substitution on the electronic properties of Mn_{2-x}CoxVAI as probed by XPS,</i> Gavrea, R., C. Leostean, M. Coldea, O. Isnard,	X	0.744	6	5.5	0.127

	V. Pop, D.Benea , <i>Intermetallics</i> , 93 (2018)155					
8	<i>Influence of Cu Doping on the Electronic Structure and Magnetic Properties of the Mn₂VAl Heusler Compd.</i> , Gavrea, R, Bolinger, A, Pop V, Isnard, O, M. Coldea, D. Benea , <i>physica status solidi b</i> 254 (2017)1700160	X	0.412	6	5.5	0.075
9	<i>Electronic correlations in vanadium revealed by electron-positron annihilation measurements</i> , Weber, J.A., Benea, D. , Appelt, W.H., (...), Hugenschmidt, C., Chioncel, L., <i>Phys. Rev B</i> 95 (2017) 75119		1.142	9	7	0.163
10	<i>X-ray photoelectron spectroscopic characterization of iron oxide nanoparticles</i> , T Radu, C Iacovita, D Benea , R Turcu, <i>Applied Surface Science</i> 405 (2017) 337-343		0.627	4	4	0.157
11	<i>Structural, electronic and magnetic properties of the Mn_{54-x}Al₄₆Ti_x (x= 2; 4) alloys</i> R Gavrea, R Hirian, S Mican, D Benea , O Isnard, M Coldea, V Pop <i>Intermetallics</i> 82(2017) 101-106		0.744	7	6	0.124
12	<i>Electronic structure and magnetic properties of the Fe₁₆N₂ doped with Ti</i> D Benea, O Isnard, V Pop <i>Journal of Magnetism and Magnetic Materials</i> 420, 75-80	X	0.456	3	3	0.152
13	<i>Neutron diffraction study of the itinerant-electron metamagnetic Hf_{0.825}Ta_{0.175}Fe₂ compound</i> LVB Diop, O Isnard, E Suard, D Benea <i>Solid State Communications</i> 229(2016) 16-21		0.433	4	4	0.108
14	<i>Structural, electronic and magnetic properties of the Mn₅₀Al₄₆Ni₄ alloy</i> S Mican, D Benea , R Hirian, R Gavrea, O Isnard, V Pop, M Coldea <i>Journal of Magnetism and Magnetic Materials</i> 401(2016) 841-847		0.456	7	6	0.076
15	<i>Local electron-electron interaction strength in ferromagnetic nickel</i>		1.86	10	7.5	0.248

	<i>determined by spin-polarized positron annihilation</i> H Ceeh, JA Weber, P Böni, M Leitner, D Benea , L Chioncel, H Ebert, Jan Minár, Dieter Vollhardt, Christoph Hugenschmidt Scientific reports 6 (2016) 20898					
16	<i>Cross over between ferro and antiferromagnetic order in Fe itinerant electron magnetism: An experimental and theoretical study of the model (Hf, Ta) Fe₂ Laves pha...</i> LVB Diop, D Benea, S Mankovsky, O Isnard Journal of Alloys and Compounds 643 (2015)239-246		0.558	4	4	0.14
17	<i>Magnetic structure of Fe/Cu (001) thin layers</i> D Benea , S Mican, I Stanciu, AF Takacs, V Pop JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 17 (5-6), (2015) 686-690	X	0.07	5	5	0.014
18	<i>Static corrections versus dynamic correlation effects in the valence band Compton profile spectra of Ni</i> L Chioncel, D Benea, S Mankovsky, H Ebert, J Minár Physical Review B 90,(2014) 184426		1.428	5	5	0.286
19	<i>Electronic structure and magnetic properties of Mn_{1-x}Cr_xSb alloys</i> G Kuhn, M Thubauville, S Polesya, S Mankovsky, D Benea, M Regus, ... Journal of Physics: Condensed Matter 26 (2014) 416002		1.012	8	6.5	0.156
20	<i>Correlation effects in fcc-FexNi_{1-x} alloys investigated by means of the KKR-CPA</i> J Minár, S Mankovsky, O Šipr, D Benea, H Ebert Journal of Physics: Condensed Matter 26 (2014) 274206		1.012	5	5	0.202
21	<i>Momentum space anisotropy of electronic correlations in Fe and Ni: An analysis of magnetic Compton profiles</i> L Chioncel, D Benea, H Ebert, I Di Marco, J Minár		1.428	5	5	0.286

	Physical Review B 89 (2014), 094425					
22	Electronic Structure and Magnetic Properties of Chromium Chalcogenides and Pnictides with NiAs Structure S Polesya, G Kuhn, D Benea, S Mankovsky, H Ebert Zeitschrift für anorganische und allgemeine Chemie 639 (2013), 2826-2835		0.159	5	5	0.032
23	<i>Magnetic behaviour of Er_{1-x}Zr_xFe₂ intermetallic compounds</i> S Mican, D Benea, S Mankovsky, S Polesya, O Gînscă, R Tetean Journal of Physics: Condensed Matter 25 (2013), 466003		1.012	6	5.5	0.184
24	<i>Magnetism and large magnetocaloric effect in HoFe_{2-x}Al_x</i> S Mican, D Benea, R Tetean Journal of Alloys and Compounds 549 (2013) 64-69		0.506	3	3	0.169
25	<i>X-ray photoelectron spectroscopic characterization of Ag nanoparticles embedded bioglasses</i> T Radu, D Benea, R Ciceo-Lucacel, L Barbu-Tudoran, S Simon The Journal of Physical Chemistry C 116 (2012), 17975-17979		1.353	5	5	0.271
26	<i>Magnetic Compton profiles of Fe and Ni corrected by dynamical electron correlations</i> D Benea, J Minár, L Chioncel, S Mankovsky, H Ebert Physical Review B 85 (2012), 085109	X	1.423	5	5	0.286
27	<i>Valence band dependence on thermal treatment of gold doped glasses and glass ceramics</i> T Radu, D Benea, R Ciceo-Lucacel, O Ponta, S Simon Journal of Applied Physics 111 (3), 034701		0.796	5	5	0.159
28	<i>Enhanced iron magnetic moment in the ThFe₁₁C₂ intermetallic compound</i>	X	0.875	5	5	0.175

	D Benea, O Isnard, J Minar, H Ebert, V Pop Journal of Applied Physics 109 (2011), 083909					
29	<i>Electronic structure and magnetic properties of the Th x Y 1-x Co 4 B solid solution</i> D Benea, O Isnard, V Pop Computational Materials Science 50 (2), 295-300	X	0.594	3	3	0.198
30	<i>Electronic structure and magnetic properties of RCo 5-x M x (R= Y, Pr and M= Al, Si) system</i> D Benea, O Isnard, N Coroian, V Pop Journal of Magnetism and Magnetic Materials 322 (2010), 1052-1055	X	0.511	4	4	0.128
31	<i>Finite-temperature magnetism of CrTe and CrSe</i> S Polesya, S Mankovsky, D Benea, H Ebert, W Bensch Journal of Physics: Condensed Matter 22 (2010), 156002		0.975	5	5	0.195
32	<i>Effects of substitution of Ni by Sb in MnNi</i> R Pacurariu, V Rednic, M Coldea, D Benea, V Pop, O Isnard, M Neumann physica status solidi (b) 246 (2009), 50-55		0.504	7	6	0.084
33	<i>Electronic structure and magnetic properties of the HoCo5-XSix system</i> D Benea, O Isnard, N Coroian, V POP Journal of optoelectronics and advanced materials 10 (7), 1767-1770 (2008)	X	0.11	4	4	0.028
34	<i>Electronic structure and magnetic properties of the ThCo4B compound</i> D Benea, V Pop, O Isnard Journal of Magnetism and Magnetic Materials 320 (2008), 36-42	X	0.497	3	3	0.166
35	<i>Magnetic behavior of iron in Tb 1-xZrxFe 2 compounds</i>		0.497	5	5	0.099

	R Tetean, E Burzo, IG Deac, V Pop, D Benea Journal of Magnetism and Magnetic Materials 316 (2007), e387-e389					
36	<i>Fully relativistic description of magnetic Compton profiles with an application to UFe₂</i> D Benea, S Mankovsky, H Ebert Physical Review B 73 (9), 094411	X	1.345	3	3	0.448
37	<i>Crystal structures, unusual magnetic properties and electronic band structures of Cr_{5-x}TixTe₈</i> ZL Huang, W Bensch, D Benea, H Ebert Journal of Solid State Chemistry 178 (2005), 2778-2790		0.704	4	4	0.176
38	<i>Preparation, crystal structure, properties, and electronic band structure of TlTaSe₃</i> CL Teske, W Bensch, D Benea, J Minár, A Perlov, H Ebert Zeitschrift für Naturforschung B 60 (2005), 858-866		0.208	6	5.5	0.038
39	<i>Limitations of integral XMCD sum-rules for the early 3d elements</i> A Scherz, H Wende, C Sorg, K Baberschke, J Minr, D Benea, H Ebert Physica Scripta 2005 (T115), 586		0.406	7	7	0.068
40	<i>Anion substitution effects on structure and magnetism in the chromium chalcogenide Cr₅Te₈—Part I: Cluster glass behavior in trigonal Cr_{(1+x)Q₂} with basic cell...</i> ZL Huang, W Bensch, D Benea, H Ebert Journal of Solid State Chemistry 177 (10), 3245-3253		0.720	4	4	0.180
41	<i>Chromium Tellurides: The Effect of Cation and Anion Substitution onto the Crystal Structures and Magnetic Properties</i> ZL Huang, W Bensch, D Benea, H Ebert		0.292	4	4	0.073

	Zeitschrift für anorganische und allgemeine Chemie 630 (11), 1692-1692					
42	<i>Direct Observation of the Multisheet Fermi Surface in the Strongly Correlated Transition Metal Compound ZrZn 2</i> Z Major, SB Dugdale, RJ Watts, G Santi, MA Alam, SM Hayden, JA Duffy, JW Taylor, T Jarlborg, E Bruno, D Benea, H Ebert, Physical review letters 92 (2004), 107003		3.732	12	8.5	0.439
43	<i>Relation between L 2, 3 XMCD and the magnetic ground-state properties for the early 3 d element V</i> A Scherz, H Wende, K Baberschke, J Minár, D Benea, H Ebert Physical Review B 66 (2002), 184401		1.52	6	5.5	0.276
44	<i>X-ray magnetic circular dichroic magnetometry on Ni/Pt multilayers</i> P Pouloupoulos, F Wilhelm, H Wende, G Ceballos, K Baberschke, D Benea, ... Journal of Applied Physics 89 (7), 3874-3879		1.373	11	8	0.172
45	<i>Layer-resolved magnetic moments in Ni/Pt multilayers</i> F Wilhelm, P Pouloupoulos, G Ceballos, H Wende, K Baberschke, P Srivastava, D Benea, H Ebert, M Angelakeris, NK Flevaris, D Niarchos, A Rogalev, NB Brookes Physical review letters 85 (2000), 413		4.326	13	9	0.481
46	<i>Transport Phenomena in the Mixed and Normal State of (Bi 1.6 Pb 0.4) Sr 2 Ca 2 (Cu 1-x Fe x) 3 O y Epitaxial Thin Films</i> G Ilonca, AV Pop, D Benea, C Lung, M Lachescu, R Deltour Modern physics letters B 12 (1998), 1081-1088		0.566	6	5.5	0.103

47	<i>Thermoelectric and thermomagnetic effects of (B1. 6Pb0. 4) Sr2Ca2Cu3Ox thin films</i> G Ilonca, AV Pop, C Corega, D Benea, M Rusu, M Ilonca, R Deltour Czechoslovak Journal of Physics 46 (1996), 1181-1182		0.183	7	6	0.031
I=7.56 P=9.26						

3. Recunoasterea impactului activitatii de cercetare

Nr.	Articol	n_i	n_i^{ef}	C_i	C_i / n_i^{ef}
1	<i>Effects of Co for Mn substitution on the electronic properties of Mn_{2-x}CoxVAI as probed by XPS</i> , Gavrea, R., C. Leostean, M. Coldea, O. Isnard, V. Pop, D.Benea, Intermetallics , 93 (2018)155	6	5.5	4	0.72
2	<i>Magnetic Compton profile of disordered Fe_{0.5}Ni_{0.5} and ordered FeNi alloys</i> , D. Benea, J.Minar, H. Ebert, L. Chioncel, <i>Phys. Rev. B</i> 97 144408 (2018)	4	4	1	0.25
3	<i>Scaling behavior of the Compton profile of alkali metals</i> , M. Sekania, W H Appelt, Diana Benea , H Ebert, D Vollhardt, L Chioncel, Physica A 489 (2018) 18	6	5.5	2	0.364
4	<i>Electronic correlations in vanadium revealed by electron-positron annihilation measurements</i> , Weber, J.A., Benea, D. , Appelt, W.H., (...), Hugenschmidt, C., Chioncel, L., <i>Phys. Rev B</i> 95 (2017) 75119	6	5.5	3	0.43
5	<i>X-ray photoelectron spectroscopic characterization of iron oxide nanoparticles</i> ,	4	4	35	8.75

	T Radu, C Iacovita, D Benea , R Turcu, Applied Surface Science 405 (2017) 337-343				
6	<i>Structural, electronic and magnetic properties of the Mn 54- x Al 46 Ti x (x= 2; 4) alloys</i> R Gavrea, R Hirian, S Mican, D Benea , O Isnard, M Coldea, V Pop Intermetallics 82(2017) 101-106	7	6	7	1.167
7	<i>Electronic structure and magnetic properties of the Fe 16 N 2 doped with Ti</i> D Benea, O Isnard, V Pop Journal of Magnetism and Magnetic Materials 420, 75-80	3	3	2	0.667
8	<i>Neutron diffraction study of the itinerant-electron metamagnetic Hf 0.825 Ta 0.175 Fe 2 compound</i> LVB Diop, O Isnard, E Suard, D Benea Solid State Communications 229(2016) 16-21	4	4	5	1.25
9	<i>Structural, electronic and magnetic properties of the Mn 50 Al 46 Ni 4 alloy</i> S Mican, D Benea , R Hirian, R Gavrea, O Isnard, V Pop, M Coldea Journal of Magnetism and Magnetic Materials 401(2016) 841-847	7	6	9	1.5
10	<i>Local electron-electron interaction strength in ferromagnetic nickel determined by spin-polarized positron annihilation</i> H Ceeh, JA Weber, P Böni, M Leitner, D Benea , L Chioncel, H Ebert, Jan Minár, Dieter Vollhardt, Christoph Hugenschmidt	10	7.5	5	0.667

	Scientific reports 6 (2016) 20898				
11	<i>Cross over between ferro and antiferromagnetic order in Fe itinerant electron magnetism: An experimental and theoretical study of the model (Hf, Ta) Fe₂ Laves pha...</i> LVB Diop, D Benea, S Mankovsky, O Isnard Journal of Alloys and Compounds 643 (2015)239-246	4	4	6	1.5
12	<i>Magnetic structure of Fe/Cu (001) thin layers</i> D Benea , S Mican, I Stanciu, AF Takacs, V Pop JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 17 (5-6), (2015) 686-690	5	5	1	0.2
13	<i>Static corrections versus dynamic correlation effects in the valence band Compton profile spectra of Ni</i> L Chioncel, D Benea, S Mankovsky, H Ebert, J Minár Physical Review B 90,(2014) 184426	5	5	2	0.4
14	<i>Correlation effects in fcc-FexNi_{1-x} alloys investigated by means of the KKR-CPA</i> J Minár, S Mankovsky, O Šipr, D Benea, H Ebert Journal of Physics: Condensed Matter 26 (2014) 274206	5	5	8	1.6
15	<i>Momentum space anisotropy of electronic correlations in Fe and Ni: An analysis of magnetic Compton profiles</i> L Chioncel, D Benea, H Ebert, I Di Marco, J Minár	5	5	2	0.4

	Physical Review B 89 (2014), 094425				
16	<i>Magnetic behaviour of Er_{1-x}ZrxFe₂ intermetallic compounds</i> S Mican, D Benea, S Mankovsky, S Polesya, O Gînscă, R Tetean Journal of Physics: Condensed Matter 25 (2013), 466003	6	5.5	5	0.909
17	Electronic Structure and Magnetic Properties of Chromium Chalcogenides and Pnictides with NiAs Structure S Polesya, G Kuhn, D Benea, S Mankovsky, H Ebert Zeitschrift für anorganische und allgemeine Chemie 639 (2013), 2826-2835	5	5	2	0.4
18	<i>Magnetism and large magnetocaloric effect in HoFe_{2-x}Al_x</i> S Mican, D Benea, R Tetean Journal of Alloys and Compounds 549 (2013) 64-69	3	3	12	4.0
19	<i>X-ray photoelectron spectroscopic characterization of Ag nanoparticles embedded bioglasses</i> T Radu, D Benea, R Ciceo-Lucacel, L Barbu-Tudoran, S Simon The Journal of Physical Chemistry C 116 (2012), 17975-17979	5	5	6	1.2
20	<i>Magnetic Compton profiles of Fe and Ni corrected by dynamical electron correlations</i> D Benea, J Minár, L Chioncel, S Mankovsky, H Ebert Physical Review B 85 (2012), 085109	5	5	8	1.6

21	<p><i>Valence band dependence on thermal treatment of gold doped glasses and glass ceramics</i> T Radu, D Benea, R Ciceo-Lucacel, O Ponta, S Simon Journal of Applied Physics 111 (3), 034701</p>	5	5	4	0.8
22	<p><i>Enhanced iron magnetic moment in the ThFe₁₁C₂ intermetallic compound</i> D Benea, O Isnard, J Minar, H Ebert, V Pop Journal of Applied Physics 109 (2011), 083909</p>	5	5	2	0.4
23	<p><i>Electronic structure and magnetic properties of RCo_{5-x}M_x (R= Y, Pr and M= Al, Si) system</i> D Benea, O Isnard, N Coroian, V Pop Journal of Magnetism and Magnetic Materials 322 (2010), 1052-1055</p>	4	4	5	1.25
24	<p><i>Finite-temperature magnetism of CrTe and CrSe</i> S Polesya, S Mankovsky, D Benea, H Ebert, W Bensch Journal of Physics: Condensed Matter 22 (2010), 156002</p>	5	5	6	1.2
25	<p><i>Effects of substitution of Ni by Sb in MnNi</i> R Pacurariu, V Rednic, M Coldea, D Benea, V Pop, O Isnard, M Neumann physica status solidi (b) 246 (2009), 50-55</p>	7	6	3	0.5
26	<p><i>Electronic structure and magnetic properties of the HoCo₅-XSix system</i> D Benea, O Isnard, N Coroian, V POP</p>	4	4	3	0.75

	Journal of optoelectronics and advanced materials 10 (7), 1767-1770				
27	<i>Electronic structure and magnetic properties of the ThCo₄B compound</i> D Benea, V Pop, O Isnard Journal of Magnetism and Magnetic Materials 320 (2008), 36-42	3	3	3	1
28	<i>Fully relativistic description of magnetic Compton profiles with an application to U Fe₂</i> D Benea, S Mankovsky, H Ebert Physical Review B 73 (9), 094411	3	3	6	2
29	<i>Crystal structures, unusual magnetic properties and electronic band structures of Cr_{5-x}TixTe₈</i> ZL Huang, W Bensch, D Benea, H Ebert Journal of Solid State Chemistry 178 (2005), 2778-2790	4	4	11	2.75
30	<i>Limitations of integral XMCD sum-rules for the early 3d elements</i> A Scherz, H Wende, C Sorg, K Baberschke, J Minr, D Benea, H Ebert Physica Scripta 2005 (T115), 586	7	6	19	3.167
31	<i>Preparation, crystal structure, properties, and electronic band structure of TlTaSe₃</i> CL Teske, W Bensch, D Benea, J Minár, A Perlov, H Ebert Zeitschrift für Naturforschung B 60 (2005), 858-866	6	5.5	2	0.364

32	<p><i>Anion substitution effects on structure and magnetism in the chromium chalcogenide Cr₅Te₈—Part I: Cluster glass behavior in trigonal Cr(1+x)Q₂ with basic cell...</i></p> <p>ZL Huang, W Bensch, D Benea, H Ebert Journal of Solid State Chemistry 177 (10), 3245-3253</p>	4	4	13	3.25
33	<p><i>Direct Observation of the Multisheet Fermi Surface in the Strongly Correlated Transition Metal Compound ZrZn₂</i></p> <p>Z Major, SB Dugdale, RJ Watts, G Santi, MA Alam, SM Hayden, JA Duffy, JW Taylor, T Jarlborg, E Bruno, D Benea, H Ebert, Physical review letters 92 (2004), 107003</p>	12	8.5	27	3.176
34	<p><i>Relation between L_{2,3} XMCD and the magnetic ground-state properties for the early 3d element V</i></p> <p>A Scherz, H Wende, K Baberschke, J Minár, D Benea, H Ebert Physical Review B 66 (2002), 184401</p>	6	5.5	43	7.818
35	<p><i>X-ray magnetic circular dichroic magnetometry on Ni/Pt multilayers</i></p> <p>P Pouloupoulos, F Wilhelm, H Wende, G Ceballos, K Baberschke, D Benea, ... Journal of Applied Physics 89 (7), 3874-3879</p>	11	8	30	3.75
36	<p><i>Layer-resolved magnetic moments in Ni/Pt multilayers</i></p>	13	9	130	14.44

	F Wilhelm, P Pouloupoulos, G Ceballos, H Wende, K Baberschke, P Srivastava, D Benea, H Ebert, M Angelakeris, NK Flevaris, D Niarchos, A Rogalev, NB Brookes Physical review letters 85 (2000), 413				
37	<i>Transport Phenomena in the Mixed and Normal State of (Bi 1.6 Pb 0.4) Sr 2 Ca 2 (Cu 1-x Fe x) 3 O y Epitaxial Thin Films</i> G Ilonca, AV Pop, D Benea, C Lung, M Lachescu, R Deltour Modern physics letters B 12 (1998), 1081-1088	6	5.5	4	0.73
38	<i>Thermoelectric and thermomagnetic effects of (Bi. 6Pb0. 4) Sr2Ca2Cu3Ox thin films</i> G Ilonca, AV Pop, C Corega, D Benea, M Rusu, M Ilonca, R Deltour Czechoslovak Journal of Physics 46 (1996), 1181-1182	7	6	4	0.667
					C=75.99