

## PROCES VERBAL

Al sedintei Comisiei de analiza a dosarelor candidatilor inscrisi la concursurile didactice si de verificare a informatiilor din fisa de verificare a indeplinirii standardelor UTC-N de la Facultatea de Ingineria Materialelor si a Mediului, numita prin decizia 354 / 7.07.20 a Rectorului UTC-N, intrunite astazi, 24.07.20, in vederea analizei dosarului candidatului **Dr.Fiz. Petru Pascuta** pentru ocuparea postului **Profesor poz. 7 la Departamentul de Fizica si Chimie**.

Comisia a analizat dosarul de concurs si a constatat ca **sunt indeplinite standardele CNATDCU** pentru postul de Profesor universitar, domeniul Fizica.

Prof.Dr.Ing. Catalin Popa

Prof.Dr.Ing. Valer Micle

Prof.Dr.Fiz. Coriolan Tiusan



**FIȘĂ DE VERIFICARE A INDEPLINIRII STANDARDELOR MINIMALE**

**Conf. Dr. Abil. Petru PĂȘCUȚĂ**

Nr. crt.	Indicatori	Punctaj minim Profesor	Punctaj realizat	Punctaj realizat (%)
1	Activitatea didactica si profesionala	2	4.04	201.83
2	Activitatea de cercetare	P	12.77	319.18
		I	7.88	196.95
3	Recunoașterea impactului activității	C	277.28	693.20
		h	22	220.00
4	Punctaj total CNA/DCU $T = A + P/2 + I/2 + C/20 + h/5$	12	32.62	271.86

Cluj-Napoca,  
10.07.2020

Conf. Dr. Abil. Petru PĂȘCUȚĂ

Activitatea didactică și profesională (A)  
Conf. Dr. Abil. Petru PĂȘCUTĂ

Tipul activitatilor	Subcapitol	n	n <sup>d</sup>	A <sub>i</sub>	Explicatii
1. Carti in edituri internationale recunoscute Web of Science in calitate de autor	1.1		0.00	0.00	Autor, Titlul, Editura an
	1.2		0.00	0.00	
	<b>Total:</b>		<b>0.00</b>	<b>0.00</b>	
2. Capitole de carti in edituri internationale recunoscute Web of Science in calitate de	2.1		0.00	0.00	
	2.2		0.00	0.00	
	<b>Total:</b>		<b>0.00</b>	<b>0.00</b>	
3. Carti in edituri internationale recunoscute Web of Science in calitate de editor	3.1		0.00	0.00	
	3.2		0.00	0.00	
	<b>Total:</b>		<b>0.00</b>	<b>0.00</b>	
4. Carti, manuale, îndrumare de laborator in edituri nationale sau alte edituri internationale ca autor, note interne, prezentari susinute pentru aprobarea analizelor de date in cadrul colaborarilor mari	4.1	2	2.00	0.25	P. Pășcuță, S. Rada, Fizică I, U.T. Press, Cluj-Napoca, 2013, ISBN 978-973-662-800-9
	4.2	4	4.00	0.13	S Rada, E. Culea, P. Pășcuță, M. Rada, Metode Spectroscopice de Analiză, U.T. Press, Cluj-Napoca, 2013, ISBN 978-973-662-803-3
	4.3	2	2.00	0.25	R. Ștefan, P. Pășcuță, Îndrumător pentru lucrări practice de biofizică, AcademicPress, 2013, ISBN 978-973-744-290-1
	4.4	3	3.00	0.17	P. Pășcuță, L. Pop, M. Boșca, Fizică. Lucrări practice, U.T. Press, Cluj-Napoca, 2013, ISBN 978-973-662-801-6
	4.5	2	2.00	0.25	R. Ștefan, P. Pășcuță, Physics/Biophysics: practical works, AcademicPress, 2014, ISBN 978-973-744-391-5
	4.6	3	3.00	0.17	R. Ștefan, P. Pășcuță, L. Pop, Structura și proprietățile fizice ale unor materiale vitreose dopate cu ioni 3d și 4f, Editura AcademicPress Cluj-Napoca, 2014, ISBN 978-973-744-390-8
	<b>Total:</b>		<b>1.21</b>	<b>0.00</b>	
5. Capitole de carti in edituri nationale sau alte edituri internationale ca autor	5.1		0.00	0.00	
	5.2		0.00	0.00	
	<b>Total:</b>		<b>0.00</b>	<b>0.00</b>	
	6.1	4	4.00	0.05	C. Voicu, F. Popa, P. Pășcuță, I. Chieinaș, Solid State Phenomena 216 (2014) 146-150.
	6.2	4	4.00	0.05	I. Coroiu, P. Pășcuță, M. Boșca, E. Culea, AIP Conference Proceedings 1565 (2013) 199-202.
	6.3	6	5.50	0.04	A. Popa, R. Ștefan, M. Boșca, V. Dan, V. Pop, P. Pășcuță, AIP Conference Proceedings 1565 (2013) 250-254.
	6.4	6	5.50	0.04	G. Borodi, P. Pășcuță, R. Ștefan, V. Dan, V. Pop, D. Rădulescu, AIP Conference Proceedings 1565 (2013) 94-98.
	6.5	7	6.00	0.03	G. Borodi, P. Pășcuță, M. Boșca, R. Ștefan, R. Teteun, V. Pop, D. Rădulescu, AIP Conference Proceedings 1565 (2013) 99-104.
	6.6	7	6.00	0.03	L. Pop, E. Culea, M. Boșca, M. Neumann, R. Muntean, P. Pășcuță, S. Rada, Journal of Optoelectronics and Advanced Materials 10 (2008) 619-622.
	6.7	5	5.00	0.04	P. Pășcuță, M. Boșca, S. Rada, L. Pop, E. Culea, Journal of Optoelectronics and Advanced Materials 10 (2008) 2210-2212.
6.8	6	5.50	0.04	S Rada, E. Culea, M. Boșca, M. Culea, P. Pășcuță, M. Neumann, Journal of Optoelectronics and Advanced Materials 10 (2008) 2316-2318.	
6.9	4	4.00	0.05	L. Pop, E. Culea, M. Boșca, P. Pășcuță, Analytical Letters 49 (2016) 2587-2596.	
6.10	3	3.00	0.07	M. Boșca, L. Pop, P. Pășcuță, AIP Conference Proceedings 1917 (2017) art. no. 040005	

6. Lucrari in extenso (cel puțin 3 pagini) publicate in Proceedings-uri indexate ISI

6.11		3	3.00	0.07	G. Borodi, L. C. Bolundut, P. Pășcuță, AIP Conference Proceedings 1917 (2017) art. no. 040004
6.12		5	5.00	0.04	R. Fernea, I. Florea, D. L. Măneș, P. Pășcuță, D. R. Tămăș-Gavrea, Procedia Manufacturing 22 (2018) 372-379.
<b>Total:</b>				<b>0.54</b>	
7.1			0.00	0.00	
7.2			0.00	0.00	
<b>Total:</b>				<b>0.00</b>	
8.1			0.00	0.00	
8.2			0.00	0.00	
<b>Total:</b>				<b>0.00</b>	
9.1				0.00	
9.2				0.00	
<b>Total:</b>				<b>0.00</b>	
10.1	10. Director/responsabil pentru proiecte de cercetare în valoare Vi EURO castigate prin competitie nationala sau internationala (proiectele de la punctul 9 se exclud). Sumele în lei sau în 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. Responsabilitii de proiect sunt cei care conduc o echipa de cercetare, fiind menționați ca atare în proiectul depus; în cazul lor se considera doar suma aferenta echipei conduse.	228919		2.29	Obținerea și caracterizarea proprietăților fizice și structurale ale unor noi materiale vitreose și vitroceramice dopate cu ioni 3d și 4f cu posibile aplicații în electronică și telecomunicații/ PN II IDEI cod 226/ 2008, contract nr. 532/ 2009.
10.2				0.00	
<b>Total:</b>				<b>2.29</b>	
<b>Punctaj A:</b>					<b>4.04</b>

$$A_4 = \sum_{i=1}^4 \frac{0.5}{n_i^{ef}} = 1.21$$

$$A_6 = \sum_{i=1}^6 \frac{0.2}{n_i^{ef}} = 0.54$$

$$A_{10} = \sum_{i=1}^{10} \frac{V_i}{100000} = 2.29$$

$$A = \sum_{i=1}^{10} A_i = 4.04$$

Cluj-Napoca,  
10.07.2020

Conf. Dr. Abil. Petru PĂȘCUTĂ

Activitatea de cercetare (P și I)  
 Recunoașterea impactului activității (C)  
 Conf. Dr. Abil. Petru PĂȘCUȚĂ

Nr. crt	Autori	Titlu articol	Revista	An	Vol.	Pag. Start	Pag. Sfarșit	DOI	n	n <sup>ef</sup>	AIS	AIS/n <sup>ef</sup>	c	c/n <sup>ef</sup>	Aut. prin. (0 sau 1)	AIS Aut. prin.
1	I. Ardelean, P. Pășcuță, V. Ioncu	Magnetic and electric behavior of iron ions in the 3B <sub>2</sub> O <sub>3</sub> -CaO glass matrix	Modern Physics Letters B	2001	15	1445	1453	10.1142/S0217984901003378	3	3	0.200	0.067	3	1.000	0	0.000
2	I. Ardelean, P. Pășcuță, M. Peteanu	EPR and magnetic susceptibility studies of calcium-borate oxide glasses containing iron ions	Modern Physics Letters B	2002	16	231	239	10.1142/S0217984902003695	3	3	0.100	0.033	3	1.000	0	0.000
3	I. Ardelean, P. Pășcuță	IR structural investigation of the xFe <sub>2</sub> O <sub>3</sub> -(100-x)[3B <sub>2</sub> O <sub>3</sub> -KCl] glass system	Modern Physics Letters B	2002	16	539	543	10.1142/S0217984902003968	2	2	0.100	0.050	6	3.000	0	0.000
4	I. Ardelean, P. Pășcuță	Structural study of Fe <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -CaO glasses by IR spectroscopy	Modern Physics Letters B	2002	16	815	819	10.1142/S0217984902004317	2	2	0.100	0.050	0	0.000	0	0.000
5	I. Ardelean, I. Todor, P. Pășcuță, I. Bratu,	IR structural investigation of Bi <sub>2</sub> O <sub>3</sub> -GeO <sub>2</sub> glasses containing manganese ions	Modern Physics Letters B	2003	17	311	315	10.1142/S0217984903005342	4	4	0.200	0.050	0	0.000	0	0.000
6	I. Ardelean, P. Pășcuță, V. Ioncu	Structural and magnetic investigations of Fe <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -CaF <sub>2</sub> glass system	International Journal of Modern Physics B	2003	17	2633	2641	10.1142/S0217979203018430	3	3	0.300	0.100	3	1.000	0	0.000
7	I. Ardelean, P. Pășcuță, L. V. Ghurgu	EPR and magnetic susceptibility investigations of Fe <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -KCl glasses	International Journal of Modern Physics B	2003	17	3049	3056	10.1142/S0217979203020648	3	3	0.300	0.100	13	4.333	0	0.000
8	I. Ardelean, P. Pășcuță	EPR and magnetic susceptibility studies of iron ions in 3B <sub>2</sub> O <sub>3</sub> -CaCl <sub>2</sub> glass matrix	International Journal of Modern Physics B	2003	17	3889	3897	10.1142/S0217979203021885	2	2	0.300	0.150	1	0.500	0	0.000
9	I. Ardelean, M. Toderas, P. Pășcuță	Structural study of the Fe <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -BaO glass system by FTIR spectroscopy	Modern Physics Letters B	2003	17	1175	1179	10.1142/S0217984903006098	3	3	0.200	0.067	7	2.333	0	0.000
10	I. Ardelean, C. Andronache, P. Pășcuță	Magnetic behavior of iron ions in the P <sub>2</sub> O <sub>5</sub> -CaO glass matrix	Modern Physics Letters B	2003	17	1271	1275	10.1142/S0217984903006293	3	3	0.200	0.067	1	0.333	0	0.000
11	I. Ardelean, N. Mureșan, P. Pășcuță	IR and Raman spectroscopic investigations of Cr <sub>2</sub> O <sub>3</sub> -TeO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -PbO glasses	International Journal of Modern Physics B	2004	18	95	101	10.1142/S0217979204023672	3	3	0.200	0.067	10	3.333	0	0.000
12	I. Ardelean, C. Andronache, C. Cîmpean, P. Pășcuță	Structural investigation of xFe <sub>2</sub> O <sub>3</sub> -(100-x)[P <sub>2</sub> O <sub>5</sub> -CaO] and x(Fe <sub>2</sub> O <sub>3</sub> -V <sub>2</sub> O <sub>5</sub> )-(100-x)[P <sub>2</sub> O <sub>5</sub> -CaO] glass systems by IR spectroscopy	Modern Physics Letters B	2004	18	45	49	10.1142/S0217984904006597	4	4	0.200	0.050	17	4.250	0	0.000
13	I. Ardelean, I. Todor, P. Pășcuță	Structural investigations of the MnO-Bi <sub>2</sub> O <sub>3</sub> -CaO glass system by IR and Raman spectroscopies	Modern Physics Letters B	2004	18	275	279	10.1142/S0217984904006792	3	3	0.200	0.067	0	0.000	0	0.000
14	I. Ardelean, N. Mureșan, P. Pășcuță	IR and Raman spectroscopic investigations of Cr <sub>2</sub> O <sub>3</sub> -TeO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -SrO glasses	Modern Physics Letters B	2004	18	367	373	10.1142/S0217984904006974	3	3	0.200	0.067	2	0.667	0	0.000
15	I. Ardelean, P. Pășcuță	EPR and magnetic susceptibility studies of iron ions in the 3B <sub>2</sub> O <sub>3</sub> -KF glass matrix	International Journal of Modern Physics B	2004	18	1525	1535	10.1142/S0217979204024501	2	2	0.200	0.100	4	2.000	0	0.000
16	P. Pășcuță, D. Maniu, I. Ardelean	Structural investigation of Fe <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -KF glasses by IR and Raman spectroscopies	International Journal of Modern Physics B	2004	18	1651	1658	10.1142/S0217979204024902	3	3	0.200	0.067	2	0.667	1	0.200
17	I. Ardelean, P. Pășcuță	Comparative vibrational study of xFe <sub>2</sub> O <sub>3</sub> -(1-x)[3B <sub>2</sub> O <sub>3</sub> -MO] (MO = CaO or CaF <sub>2</sub> ) glass systems	Materials Letters	2004	58	3499	3502	10.1016/j.matlet.2004.06.062	2	2	0.500	0.250	19	9.500	0	0.000
18	P. Pășcuță, I. Ardelean	Comparative structural investigation of xFe <sub>2</sub> O <sub>3</sub> -(100-x)[3B <sub>2</sub> O <sub>3</sub> -Mo] (MO = KCl or CaCl <sub>2</sub> ) glass systems by Raman spectroscopy	Modern Physics Letters B	2004	18	1441	1447	10.1142/S0217984904007876	2	2	0.200	0.100	1	0.500	1	0.200
19	I. Ardelean, C. Andronache, C. Cîmpean, P. Pășcuță	Structural study of x(Fe <sub>2</sub> O <sub>3</sub> -V <sub>2</sub> O <sub>5</sub> )-(100-x)[P <sub>2</sub> O <sub>5</sub> -Li <sub>2</sub> O] glass system by FTIR spectroscopy	Modern Physics Letters B	2006	20	105	110	10.1142/S0217984906009335	4	4	0.200	0.050	9	2.250	0	0.000

20	I. Ardelean, Andronache, C., Cimpean, C., P. Pășcuță	EPR and magnetic investigation of calcium-phosphate glasses containing iron ions	Journal of Optoelectronics and Advanced Materials	2006	8	1372	1376		4	4	0.130	0.033	9	2.250	0	0.000
21	I. Ardelean, N. Mureșan, P. Pășcuță	FT-IR and Raman spectroscopic study of $\text{Cr}_2\text{O}_3\text{-TeO}_2\text{-B}_2\text{O}_3\text{-SrF}_2$ glasses	Modern Physics Letters B	2006	20	1107	1114	10.1142/S0217984906011426	3	3	0.200	0.067	3	1.000	0	0.000
22	I. Ardelean, N. Mureșan, P. Pășcuță	EPR and magnetic susceptibility studies on $\text{MnO}\cdot\text{TeO}_2\text{-B}_2\text{O}_3\text{-SrF}_2$ glasses	Modern Physics Letters B	2006	20	1607	1615	10.1142/S0217984906011967	3	3	0.200	0.067	1	0.333	0	0.000
23	I. Ardelean, N. Mureșan, P. Pășcuță	EPR and magnetic susceptibility studies of manganese ions in $70\text{TeO}_2\text{-25B}_2\text{O}_3\text{-5SrO}$ glass matrix	Materials Chemistry and Physics	2007	101	177	181	10.1016/j.matchemphys.2006.03.010	3	3	0.609	0.203	5	1.667	0	0.000
24	I. Ardelean, R. Lungu, P. Pășcuță	Structural and magnetic properties of strontium-borate glasses containing iron ions	Journal of Materials Science	2007	42	5465	5469	10.1007/s10853-006-0773-5	3	3	0.459	0.153	2	0.667	0	0.000
25	I. Ardelean, R. Lungu, P. Pășcuță	Structural changes induced by $\text{Fe}_2\text{O}_3$ addition in strontium-borate glass matrix	Journal of Materials Science: Materials in Electronics	2007	18	837	841	10.1007/s10854-006-9087-2	3	3	0.327	0.109	15	5.000	0	0.000
26	I. Ardelean, R. Lungu, P. Pășcuță	Structural and magnetic behavior of strontium-borate glasses doped with iron ions	Modern Physics Letters B	2008	22	359	368	10.1142/S0217984908014808	3	3	0.205	0.068	0	0.000	0	0.000
27	P. Pășcuță, M. Bosca, M. Culea, Simon, S., E. Culea	EPR and magnetic susceptibility studies of $\text{Gd}^{3+}$ ions-doped bismuth-germa matrix	Modern Physics Letters B	2008	22	447	453	10.1142/S0217984908014936	5	5	0.205	0.041	3	0.600	1	0.205
28	P. Pășcuță, L. Pop, S. M. Rada Bosca, E. Culea	The local structure of bismuth borate glasses doped with europium ions evidenced by FT-IR spectroscopy	Journal of Materials Science: Materials in Electronics	2008	19	424	428	10.1007/s10854-007-9359-5	5	5	0.343	0.069	93	18.600	1	0.343
29	I. Ardelean, R. Lungu, P. Pășcuță	EPR and magnetic susceptibility studies of iron ions in $3\text{B}_2\text{O}_3\text{-SrO}$ glass matrix	Journal of Optoelectronics and Advanced Materials	2008	10	1306	1310		3	3	0.113	0.038	2	0.667	0	0.000
30	Pășcuță, P., Beșeu, M., S. M. Rada Culea, I. Bratu, E. Culea	FTIR spectroscopic study of $\text{Gd}_2\text{O}_3\text{-Bi}_2\text{O}_3\text{-B}_2\text{O}_3$ glasses	Journal of Optoelectronics and Advanced Materials	2008	10	2416	2419		6	5.5	0.113	0.021	11	1.000	1	0.113
31	P. Pășcuță, E. Culea	FTIR spectroscopic study of some bismuth germanate glasses containing gadolinium ions	Materials Letters	2008	62	4127	4129	10.1016/j.matlet.2008.06.015	2	2	0.576	0.288	43	21.500	1	0.576
32	S. Rada, P. Pășcuță, M. Bosca, M. Culea, L. Pop, E. Culea	Structural properties of the boro-bismuthate glasses containing gadolinium ions	Vibrational Spectroscopy	2008	48	255	258	10.1016/j.vibspec.2007.12.005	6	5.5	0.588	0.107	33	6.000	0	0.000
33	P. Pășcuță, L. Pop, S. M. Rada Bosca, E. Culea,	The local structure of bismuth germanate glasses and glass ceramics doped with europium ions evidenced by FT-IR spectroscopy	Vibrational Spectroscopy	2008	48	281	284	10.1016/j.vibspec.2008.01.011	5	5	0.588	0.118	42	8.400	1	0.588
34	S. Rada, E. Culea, M. Bosca, M. Culea, R. Muntean, P. Pășcuță	Spectroscopic and quantum mechanical investigation of the boro-bismuthate glasses and glass ceramics structures	Vibrational Spectroscopy	2008	48	285	288	10.1016/j.vibspec.2008.04.001	5	5	0.588	0.118	11	2.200	0	0.000
35	S. Rada, P. Pășcuță, M. Bosca, M. Culea, V. Rus, M. Neumann, E. Culea	Spectroscopic and quantum chemical investigation of the boro-bismuthate glass structure	Journal of Optoelectronics and Advanced Materials	2008	10	3221	3224		7	6	0.113	0.019	0	0.000	0	0.000
36	P. Pășcuță, G. Borodi, E. Culea	Influence of europium ions on structure and crystallization properties of bismuth borate glasses and glass ceramics	Journal of Non-Crystalline Solids	2008	354	5475	5479	10.1016/j.inocrysol.2008.09.010	3	3	0.542	0.181	43	14.333	1	0.542
37	P. Pășcuță, G. Borodi, E. Culea	Structural investigation of bismuth borate glass ceramics containing gadolinium ions by X-ray diffraction and FTIR spectroscopy	Journal of Materials Science: Materials in Electronics	2009	20	360	365	10.1007/s10854-008-9734-x	3	3	0.364	0.121	21	7.000	1	0.364
38	S. Rada, P. Pășcuță, M. Culea, V. Maties, M. M. Rada Barlea, E. Culea	The local structure of europium-lead-borate glass ceramics	Journal of Molecular Structure	2009	924-926	89	92	10.1016/j.molstruc.2008.12.032	7	6	0.369	0.062	39	6.500	0	0.000
39	E. Culea, L. Pop, P. Pășcuță, M. Bosca	Novel bismuth-lead-silver glasses and glass ceramics doped with neodymium ions	Journal of Molecular Structure	2009	924-926	192	195	10.1016/j.molstruc.2008.11.003	4	4	0.369	0.092	8	2.000	0	0.000
40	P. Pășcuță, S. Rada, G. Borodi, M. Bosca, L. Pop, E. Culea,	Influence of europium ions on structure and crystallization properties of bismuth-alumino-borate glasses and glass ceramics	Journal of Molecular Structure	2009	924-926	214	220	10.1016/j.molstruc.2009.01.003	6	5.5	0.369	0.067	25	4.545	1	0.369

41	S. Rada, E. Culea, M. Rada, P. Pășcuță, V. Măntes	Structural and electronic properties of tellurite glasses	Journal of Materials Science	2009	44	3235	3240	10.1007/s10853-009-3433-8	5	5	0.493	0.099	18	3.600	0	0.000
42	M. Bosca, L. Pop, G. Borodi, P. Pășcuță, E. Culea	XRD and FTIR structural investigations of erbium-doped bismuth-lead-silver glasses and glass ceramics	Journal of Alloys and Compounds	2009	479	579	582	10.1016/j.jallcom.2009.01.001	5	5	0.488	0.098	53	10.600	0	0.000
43	S. M. Rada Culea, M. Rada, P. Pășcuță, V. Măntes, E. Culea	The double role played by the Gd <sub>2</sub> O <sub>3</sub> in the gadolinium-aluminum-borate-bismuthate quaternary glass forming tendency. GdBO <sub>3</sub> crystalline phase	Journal of Molecular Structure	2009	937	70	74	10.1016/j.molstruc.2009.08.016	6	5.5	0.369	0.067	18	3.273	0	0.000
44	M. Rada, E. Culea, S. Rada, V. Măntes, P. Pășcuță	Novel structural properties of the lead-vanadate-tellurite glass ceramics	Journal of Materials Science	2010	45	1487	1494	10.1007/s10853-009-4109-0	5	5	0.554	0.111	9	1.800	0	0.000
45	P. Pășcuță	Structural investigations of some bismuth-borate-vanadate glasses doped with gadolinium ions	Journal of Materials Science: Materials in Electronics	2010	21	338	342	10.1007/s10854-009-9917-0	1	1	0.349	0.349	20	20.000	1	0.349
46	P. Pășcuță, R. Lungu, I. Ardelean	FTIR and Raman spectroscopic investigation of some strontium-borate glasses doped with iron ions	Journal of Materials Science: Materials in Electronics	2010	21	548	553	10.1007/s10854-009-9955-7	3	3	0.349	0.116	20	6.667	1	0.349
47	M. Popa, E. Indrea, P. Pășcuță, V. Ceșoveanu, I. C. Popescu, V. Dancu	Fe, Ce and Cu influence on morpho-structural and photocatalytic properties of TiO <sub>2</sub> aerogels	Revue Roumaine de Chimie	2010	55	369	375		6	5.5	0.051	0.009	5	0.909	0	0.000
48	P. Pășcuță, G. Borodi, N. Jumate, I. Vida-Simiti, D. Viorel, E. Culea	The structural role of manganese ions in some zinc phosphate glasses and glass ceramics	Journal of Alloys and Compounds	2010	504	479	483	10.1016/j.jallcom.2010.05.147	6	5.5	0.471	0.086	43	7.818	1	0.471
49	P. Pășcuță, G. Borodi, A. Popa, V. Dan, E. Culea	Influence of iron ions on the structural and magnetic properties of some zinc-phosphate glasses	Materials Chemistry and Physics	2010	123	767	771	10.1016/j.matschemphys.2010.05.056	5	5	0.690	0.138	55	11.000	1	0.690
50	M. Rada, S. Rada, P. Pășcuță, E. Culea	Structural properties of molybdenum-lead-borate glasses	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2010	77	832	837	10.1016/j.saa.2010.08.014	4	4	0.387	0.097	41	10.250	0	0.000
51	P. Pășcuță, M. Bosca, G. Borodi, E. Culea	Thermal, structural and magnetic properties of some zinc phosphate glasses doped with manganese ions	Journal of Alloys and Compounds	2011	509	4314	4319	10.1016/j.jallcom.2011.01.056	4	4	0.471	0.118	40	10.000	1	0.471
52	P. Pășcuță, E. Culea	Structural and thermal properties of some zinc borate glasses containing gadolinium ions	Journal of Materials Science: Materials in Electronics	2011	22	1060	1066	10.1007/s10854-010-0259-8	2	2	0.292	0.146	8	4.000	1	0.292
53	S. Rada, P. Pășcuță, M. Rada, E. Culea	Effects of samarium (III) oxide content on structural investigations of the samarium-vanadate-tellurate glasses and glass ceramics	Journal of Non-Crystalline Solids	2011	357	3405	3409	10.1016/j.jnoncrysol.2011.06.001	4	4	0.460	0.115	7	1.750	0	0.000
54	S. C. Baude, I. Ardelean, P. Pășcuță	Structural investigation of xAg <sub>2</sub> O(100-x)(2B <sub>2</sub> O <sub>3</sub> :As <sub>2</sub> O <sub>3</sub> ) glasses doped with manganese ions	Physica B: Condensed Matter	2011	406	4253	4256	10.1016/j.physb.2011.08.024	3	3	0.324	0.108	2	0.667	0	0.000
55	P. Pășcuță, A. Vlădescu, G. Borodi, E. Culea, R. Tetean	Structural and magnetic properties of zinc ferrite incorporated in amorphous matrix	Ceramics International	2011	37	3343	3349	10.1016/j.ceramint.2011.05.134	5	5	0.535	0.107	18	3.600	1	0.535
56	S. Rada, P. Pășcuță, L. Rus, M. Rada, E. Culea	Spectroscopic properties and ab initio calculations on the structure of erbium-zinc-borate glasses and glass ceramics	Journal of Non-Crystalline Solids	2012	358	30	35	10.1016/j.jnoncrysol.2011.08.017	5	5	0.450	0.090	16	3.200	0	0.000
57	P. Pășcuță, A. Vlădescu, G. Borodi, E. Culea, R. Tetean	Synthesis, structural and magnetic characterization of iron-zinc-borate glass ceramics containing nanocrystalline zinc ferrite	Journal of Materials Science: Materials in Electronics	2012	23	582	588	10.1007/s10854-011-0444-4	5	5	0.316	0.063	7	1.400	1	0.316
58	R. Stefan, P. Pășcuță, A. Popa, O. Raita, E. Indrea, E. Culea	XRD and EPR structural investigation of some zinc borate glasses doped with iron ions	Journal of Physics and Chemistry of Solids	2012	73	221	226	10.1016/j.jpccs.2011.10.039	6	5.5	0.436	0.079	16	2.909	1	0.436
59	R. Stefan, E. Culea, P. Pășcuță	The effect of copper ions addition on structural and optical properties of zinc borate glasses	Journal of Non-Crystalline Solids	2012	358	839	846	10.1016/j.jnoncrysol.2011.12.079	3	3	0.450	0.150	26	8.667	1	0.450
60	P. Pășcuță, E. Culea	Effect of gadolinium ions on the structure and magnetic properties of zinc-borate glasses and glass ceramics	Journal of Materials Science	2012	47	2345	2351	10.1007/s10853-011-6051-1	2	2	0.590	0.295	11	5.500	1	0.590



61	L. Bükksői, G. Y. Thalmater, C. Codrean, P. Pășcuță, I. Vida-Simiti	Obtaining and characterization of Ni:Zr type amorphous tapes	Optoelectronics and Advanced Materials, Rapid Communications	2012	6	814	817		5	5	0.069	0.014	0	0.000	0	0.000
62	V. F. Tarța, T. F. Marinca, I. Chioinaș, F. Popa, B. V. Neamțu, P. Pășcuță, A. F. Takacs	Stability of Phases in Ball-Milled Zinc Ferrite/Iron Composite Produced by Spark Plasma Sintering	Materials and Manufacturing Processes	2013	28	933	938	10.1080/10426914.2013.792426	7	6	0.240	0.040	4	0.667	0	0.000
63	T. F. Marinca, B. V. Neamțu, F. Popa, V. F. Tarța, P. Pășcuță, A. F. Takacs, I. Chioinaș	Synthesis and characterization of the NiFe <sub>2</sub> O <sub>4</sub> /Ni <sub>3</sub> Fe nanocomposite powder and compacts obtained by mechanical milling and spark plasma sintering	Applied Surface Science	2013	285	2	9	10.1016/j.apsusc.2013.07.145	7	6	0.550	0.092	7	1.167	0	0.000
64	V. V. Merie, V. C. Căndea, C. Bîrlănuș, P. Pășcuță, C. O. Popa	The influence of titanium dioxide on the tribological characteristics of a Fe-based friction composite material	Journal of Composite Materials	2014	48	235	243	10.1177/0021998312470152	5	5	0.372	0.074	3	0.600	0	0.000
65	A. C. Găguș, E. M. Pîca, G. Blaga, P. Pășcuță, K. Agnes	Mineralogical characterisation and heavy metals assessment of soils from urban recreational areas in central transylvania	Studia Universitatis Babeș-Bolyai Chimia	2014	59	87	98		5	5	0.023	0.005	0	0.000	0	0.000
66	E. Culea, I. Vida-Simiti, G. Borodi, E. N. Culea, R. Ștefan, P. Pășcuță	Structural and spectroscopic effects of Ag:Eu <sup>3+</sup> codoping of TeO <sub>2</sub> -PbO glass ceramics	Journal of Materials Science	2014	49	4620	4628	10.1007/s10853-014-8164-9	6	5.5	0.592	0.108	8	1.455	1	0.592
67	B. V. Neamțu, T. F. Marinca, I. Chioinaș, O. Isnard, F. Popa, P. Pășcuță	Preparation and soft magnetic properties of spark plasma sintered compacts based on Fe-Si-B glassy powder	Journal of Alloys and Compounds	2014	600	1	7	10.1016/j.jallcom.2014.02.115	6	5.5	0.557	0.101	22	4.000	0	0.000
68	E. Culea, I. Vida-Simiti, G. Borodi, N. E. Culea, R. Ștefan, P. Pășcuță	Effects of Er <sup>3+</sup> :Ag codoping on structural and spectroscopic properties of lead tellurite glass ceramics	Ceramics International	2014	40	11001	11007	10.1016/j.ceramint.2014.03.106	6	5.5	0.452	0.082	9	1.636	1	0.452
69	T. F. Marinca, B. V. Neamțu, I. Chioinaș, P. Pășcuță	Influence of mechanical activation time, annealing, and Fe/O ratio on Fe <sub>3</sub> O <sub>4</sub> /Fe composites formation from Fe <sub>2</sub> O <sub>3</sub> and Fe powders mixture	Journal of Thermal Analysis and Calorimetry	2014	118	1245	1251	10.1007/s10973-014-3967-0	4	4	0.251	0.063	5	1.250	0	0.000
70	I. Chioinaș, T. F. Marinca, B. V. Neamțu, P. Pășcuță, V. Pop	Thermal stability of the manganese-nickel mixed ferrite and iron phases in the Mn <sub>0.5</sub> Ni <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> /Fe composite/nanocomposite powder	Journal of Thermal Analysis and Calorimetry	2014	118	1269	1275	10.1007/s10973-014-3961-6	5	5	0.251	0.050	3	0.600	0	0.000
71	A.-M. Salantiu, C. Fekete, L. Muresan, P. Pășcuță, F. Popa, C. Popa	Anodic oxidation of PM porous titanium for increasing the corrosion resistance of endosseous implants	Materials Chemistry and Physics	2015	149	453	459	10.1016/j.matchem.2014.10.044	6	5.5	0.479	0.087	4	0.727	0	0.000
72	L. Bolundut, E. Culea, G. Borodi, S. Ștefan, C. Munteanu, P. Pascuta	Influence of Sm <sup>3+</sup> :Ag codoping on structural and spectroscopic properties of lead tellurite glass ceramics	Ceramics International	2015	41	2931	2939	10.1016/j.ceramint.2014.10.119	6	5.5	0.465	0.085	8	1.455	1	0.465
73	E. N. Culea, P. Pășcuță, M. Pusitan, D. R. Tamas-Gavrea, L. Pop, I. Vida-Simiti	Effects of Eu:Ag codoping on structural, magnetic and mechanical properties of lead tellurite glass ceramics	Journal of Non-Crystalline Solids	2015	408	18	25	10.1016/j.jnoncrysol.2014.10.002	7	6	0.428	0.071	9	1.500	1	0.428
74	M. Rada, L. Rus, S. Rada, P. Pășcuță, S. Stan, N. Dura, T. Rusu, E. Culea	Role of vanadium ions on structural, optical and electrochemical properties of the vanadate-lead glasses	Journal of Non-Crystalline Solids	2015	414	59	65	10.1016/j.jnoncrysol.2015.02.009	8	6.5	0.428	0.066	3	0.462	0	0.000
75	A.-M. Salantiu, O. Soritau, N. Dirzu, F. Popa, L. Muresan, V. Popescu, P. Pășcuță, C. Popa	Porous titanium - An enhanced support for human osteoblasts after anodization and e-RGD immobilization	Studia Universitatis Babeș-Bolyai Chimia	2015	60	45	58		8	6.5	0.017	0.003	0	0.000	0	0.000
76	M. Bocea, L. Pop, L. Bolundut, N. Tohazan, G. Borodi, I. Vida-Simiti, R. Ștefan, A. Popa, E. Culea, P. Pășcuță	Effects of Gd <sup>3+</sup> :Ag co-doping on structural and magnetic properties of lead tellurite glass ceramics	Ceramics International	2016	42	1169	1176	10.1016/j.ceramint.2015.09.047	8	6.5	0.460	0.071	3	0.462	1	0.460
77	T. F. Marinca, H. F. Chioinaș, B. V. Neamțu, O. Isnard, P. Pășcuță, N. Lupu, G. Stoian, I. Chioinaș	Mechanosynthesis, structural, thermal and magnetic characteristics of oleic acid coated Fe <sub>3</sub> O <sub>4</sub> nanoparticles	Materials Chemistry and Physics	2016	171	336	345	10.1016/j.matchem.2016.01.025	8	6.5	0.449	0.069	7	1.077	0	0.000

78	T. F. Marinca, H. F. Chiciuş, B. V. Neamtu, I. Chiciuş, O. Isnard, F. Popa, P. Păşcuţă	Nanocrystalline/nanosized Fe <sub>2</sub> O <sub>3</sub> obtained by a combined route ceramic-mechanical milling. Effect of milling on the chemical composition, formation of phases and powder characteristics	Advanced Powder Technology	2016	27	1588	1596	10.1016/j.apt.2016.05.022	7	6	0.491	0.082	2	0.333	0	0.000
79	L. Bolundut, L. Pop, M. Bosca, N. Itohan, G. Borodi, E. Culea, P. Păşcuţă, R. Stefan	Structural, spectroscopic and magnetic properties of Nd <sup>3+</sup> doped lead tellurite glass ceramics containing silver	Journal of Alloys and Compounds	2017	692	934	940	10.1016/j.jallcom.2016.09.084	8	6.5	0.574	0.088	5	0.769	0	0.000
80	L. Bolundut, L. Pop, M. Bosca, G. Borodi, L. Olar, R.-C. Suci, P. Păşcuţă, E. Culea, R. Stefan	Structural and spectroscopic properties of some neodymium-boro-germanate glasses and glass ceramics embedded with silver nanoparticles	Ceramics International	2017	43	12232	12238	10.1016/j.ceramint.2017.06.084	9	7	0.437	0.062	0	0.000	1	0.437
81	R. Stefan, M. Karabulut, A. Popa, E. Culea, L. Bolundut, L. Olar, P. Pascuta	A spectroscopic study of the influence of CuO addition on the ZnO-TeO <sub>2</sub> glass and glass ceramics	Journal of Non-Crystalline Solids	2018	498	430	436	10.1016/j.jnoncrysol.2018.10.031	6	5.5	0.414	0.075	0	0.000	1	0.414
82	R. Stefan, L. Bolundut, L. Pop, G. Borodi, E. Culea, P. Pascuta	Copper nanoparticles enhanced luminescence of Eu <sup>3+</sup> doped lead tellurite glass ceramics	Journal of Non-Crystalline Solids	2019	505	9	17	10.1016/j.jnoncrysol.2018.02.034	6	5.5	0.440	0.080	0	0.000	1	0.440
83	L. Bolundut, L. Pop, P. Păşcuţă, E. Culea	Characterization of a Novel Zinc Phosphate Germanate Oxide System Doped with Erbium Ions	Analytical Letters	2019	52	20	26	10.1080/00032719.2017.1408125	4	4	0.202	0.051	0	0.000	0	0.000
84	L. Bolundut, P. Păşcuţă, V. Pop, R. Stefan	Characterization of the Structural Properties of Zinc Phosphate Glass Ceramics Doped with Manganese Ions Following Thermal Treatment	Analytical Letters	2019	52	37	44	10.1080/00032719.2017.1420074	4	4	0.202	0.051	0	0.000	0	0.000
85	P. Pascuta, L. Pop, R. Stefan, L. Olar, G. Borodi, L. Bolundut, E. Culea	The impact of Ag and Cu nanoparticles on optical and magnetic properties of new Tb <sub>2</sub> O <sub>3</sub> -PbO-TeO <sub>2</sub> glass ceramic system	Journal of Alloys and Compounds	2019	799	442	449	10.1016/j.jallcom.2019.05.316	7	6	0.630	0.105	2	0.333	1	0.630
86	L. Pop, L. Bolundut, P. Pascuta, E. Culea	Influence of Er <sup>3+</sup> ions addition on thermal and optical properties of phosphate germanate system	Journal of Thermal Analysis and Calorimetry	2019	138	1895	1899	10.1007/s10973-019-08145-4	4	4	0.291	0.073	1	0.250	0	0.000
87	L. Bolundut, P. Pascuta, E. Culea, M. Bosca, L. Pop, R. Stefan	Spectroscopic study of some new cobalt-doped tellurite glass-ceramics	Journal of Materials Science	2020	55	9962	9971	10.1007/s10853-020-04749-6	6	5.5	0.565	0.103	0	0.000	0	0.000

7.88 1048 277.28 30 12.77

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$$C = \sum_{i=1}^n \frac{c_i}{n_i^{ef}} = 277.28$$

Cluj-Napoca,  
10.07.2020

Conf. Dr. Abil. Petru PAȘCUTĂ