FIŞA DE VERIFICARE A INDEPLINIRII STANDARDELOR MINIMALE CNATDCU
DOMENIUL INGINERIA MATERIALELOR

Conf Dr NICOLAE CONSTANTIN CRETU

Universitatea Transilvania din Brasov

Punctaj realizat

Activitatea didactică şi profesionalăA1: 87.17 puncte
Activitatea de cercetare ştiinţifică A2: 572.861 puncte
Recunoaşterea şi impactul activităţii A3:151.74 puncte
TOTAL 811.77puncte

N.C

Nr crt	**Domeniul activitatilor**	**Tipul activitatilor**	**Categorii**	**Indicatori**	**Titlul, descrierea, localizarea**	**Punctaj realizat**	**Total pe subdomenii**
1	A1.Activitatea didactica si profesionala	1.1 Carti si capitole ca autor	1.1.1.1 internationale	Nr.pagini/5X nr autori	1. COMPAC 97 : Computational acoustics and its environmental applications II :[222 p.] **ISBN** 1-85312-459-1 ; **Editeur / Publisher Computational Mechanics Publications, Southampton**, ROYAUME-UNI (1997) (Monographie), A method for simulation of Gaussian pulse propagation in an elastic medium with periodical inhomogeneity, pp. 161-168 2. Integral methods in science and engineering, **ISBN** 1-58488-146-1 **Editeur / Publisher CHAPMAN AND HALL CRC,** A semi-analytic method for the study of acoustic pulse propagation in inhomogeneous elastic 1-D media, pp.107-112.	8/5x5=0.32 8/5x4=0.4	0.72
			1.1.1.2 Nationale (minim 2 ca profesor d.c 1 prim autor)	Nr. pagini/ 10xnr autori	1 **Nicolae Cretu**-*Fizica generală*- Editura Didactică şi Pedagogică, Bucureşti 2003 ISBN 973-30-2502-X 2.**Nicolae Creţu**- *Fizica si tehnica microundelor*- Editura Universitatii Transilvania din Braşov 2006,-ISBN 973-635-840-2 (978-973-635-840-1) 3.**Nicolae Cretu**, Ioan. Sturzu-*Electrodinamica si teoria relativitatii-vol.I*-- Editura AXA Bucureşti 1998, ISBN 973-97408-4-7	193/10=19.3 119/10=11.9 79/10x2=3.9	35.1
		1.2 Material didactic/Lucrari didactice	1.2.1 Manuale didactice/ Monografii	Nr pagini /20xnr de autori	1. **Bazele Fizicii**-Nicolae Cretu, Editura Universităţii Transilvania Braşov, ISBN 978-973-598-716-9, 2010, 268 pagini 2. **Fizica pentru ingineri**- Nicolae Cretu, Editura Universităţii Transilvania Braşov, ISBN 978-606-19-0062-6, 2012, 267 pagini 3. **Fizica**- Nicolae Cretu, Editura Universităţii Transilvania Braşov, 2008, ISBN978-973-598-369-7 4. Fizica, **Curs pentru Invatamant la Distanţă)**, Departamentul pentru Invăţământ la Distanţă si Invăţământ cu Frecvenţă Redusă, Nicolae Cretu,	13.4 13.35 7.95 8.65	43.35

					Reprografia Univ Transilvania Brasov 2008, 159 pagini 5. Fizica, **Curs pentru Invatamant cu Frecvenţă Redusă**, Departamentul pentru Invăţământ la Distanţă si Invăţământ cu Frecvenţă Redusă, Nicolae Cretu, Reprografia Univ Transilvania Brasov 2008, 173 pagini 6. **Didactica Fizicii**, Nicolae Creţu- pentru perfectionarea profesorilor de Fizica din Invatamantul Preuniversitar- Departamentul de Formare Continuă a Universitatii Transilvania Braşov- suportul de curs este postat la adresa :(http://menelaus.unitbv.ro/didactica_specialitatii.htm) 7. **Metodica Fizicii,** Nicolae Creţu- pentru perfectionarea profesorilor de Fizica din Invatamantul Preuniversitar- Departamentul de Formare Continuă a Universitatii Transilvania Braşov- suportul de curs este postat la adresa : (http://menelaus.unitbv.ro/new_page_3.htm)	0 0 0	
			1.2.2 Indrumatoare de laborator/ /aplicatii	Nr pagini/ 25xnr de autori	1. I.Inta, D.Jecu, S. Dumitru, **N.Cretu**-Culegere de probleme de fizica, Reprografia Universitatea din Brasov, Brasov 1990 2. Colectivul Catedrei de Fizică,Lucrări de laborator de Fizică, Reprografia Universităţii din Braşov, Braşov 1985 3. **Cretu N**-Lucrari de laborator de fizica -on line- http://menelaus.unitbv.ro/laboratoare.htm	200/25x4=2 20/25x10=0.09 150/25=6	8
2	A2. Activitatea de cercetare	Articole in reviste cotate ISI Thompson Reuters si in volume indexate ISI Proceedings	Minim 15 articole pentru Profesor din care 10 Reviste cotate ISI din care 5 cu FI de minim 0.5 si minim 5 ca autor principal	Cotatie Reviste 25+20x FI/nr autori	1. Applied Acoustics (FI=1.068) 95,2015,pp.60-69 I C Rosca, M. Pop and **N.Cretu** -Experimental and computational studies on a ultrasonic horn with shape designed by optimization (10.1016/j.apacou)	13.78	333.061
					2.Applied Surface Science (FI 2.711) 354, (B),2015,pp 298-305 Cristea D, Crisan A, **Cretu N**, Borges J, Lopes C, Cunha L, Ion V, Dinescu M, Barradas N. P., Alves E, Apreutesei M, Munteanu D- N.Cretu -STUDY OF THE MAGNETOACOUSTIC EFFECT ON FERROMAGNETIC ELASTIC SPECIMENS	6.185	

					3.Chalcogenide Letters (FI=0.913) 10 (11),2013 pp. 467-472 Sava, F., Lorinczi, A., Velea, A., **Creţu, N.-C.**, Popescu, M.-Effect of thermal annealing on the structural and optical properties of Ag/As2S3 multilayers	7.652	
					4.Journal of Sound and Vibration(FI=1.813) 332 (20),2013, pp. 4940-4947 **Cretu, N**., Nita, G., Ioan Pop, M.-Wave transmission approach based on modal analysis for embedded mechanical systems	20.42	
					5.Mechanics of Materials (FI=2.329) 60,2013, pp. 121-128 **Nicolae, Cretu.**, Gelu, Nita.-A simplified modal analysis based on the properties of the transfer matrix	35.79	
					6.Applied Surface Science (FI=2.711) 257 (14), 2011,pp. 6220-6225 Croitoru, C., Patachia, S., **Cretu, N.**, Boer, A.,Friedrich, C.-Influence of ionic liquids on the surface properties of poplar veneers	15.844	
					7.Optoelectronics and Advanced Materials, Rapid Communications (FI=0.394) 5 (1-2),2011, pp. 143-145 Vlaicu, A.M., Mercioniu, I., Vasile, B.S., **Cretu N**,Nita, P., Popescu-Pogrion, N.-Structural and chemical properties of cerium-magnetoplumbite in cerium based IT-SOFC compounds	5.48	
					8.Computational Materials Science (FI 2.131) 44 (4),2009, pp. 1312-1318 **Cretu, N**., Pop, M.-I.-Acoustic behavior design with simulated annealing	33.81	

					9.Journal of Optoelectronics and Advanced Materials (FI 0.429) 10 (12),2008, pp. 3292-3299 **Cretu, N**., Pop, I.M.-Higher order statistics in signal processing and nanometric size analysis	16.79	
					10-.IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control (FI 1.512) 55 (2), 2008, pp. 415-420 **Cretu, N**., Nita, G., Boer, A.-ΔE effect for polycrystalline ferromagnetic rods	18.41	
					11.UPB Scientific Bulletin, Series A: Applied Mathematics and Physics (FI=0.218) 67(4), 2005, 193-202 **Creţu, N**., Niţă, G.-Transfer coefficient of magnetoelastic materials	14.68	
					12.Ultrasonics (FI 2.243) 43 (7), 2005,pp. 547-550 **Cretu, N.-**Acoustic measurements and computational results on material specimens with harmonic variation of the cross section	69.86	
					13. Computational Materials Science (FI 2.131) 31 (3-4),2004, pp. 329-336 **Cretu, N.**, Nita, G.-Pulse propagation in finite elastic inhomogeneous media	33.81	
					14.Metallofizika i Noveishie Tekhnologii (FI 0.319) 20 (4),1998, pp. 10-15 **Cretu N**-On the behaviour of a ferrimagnetic sample in a microwave field with a determinate geometry	31.38	

					15. Journal of the Acoustical Society of America (FI 1.503) 104 (1), 1998,pp. 57-63 **Cretu, N.**, Delsanto, P.P., Nita, G., (...),Scalerandi, M., Sturzu, I.-Ultrasonic pulse propagation in inhomogeneous one-dimensional media	9.17	
					16. INTERNATIONAL CONGRESS ON ULTRASONICS (GDANSK 2011) **Book Series:** AIP Conference Proceedings **Volume:** 1433 **Pages:** 535-538 **DOI:**10.1063/1.3703244 **Published:** 2012 **Accession Number:** WOS:000307631000115 **IDS Number:** BBN94 **ISSN:** 0094-243X **ISBN:** 978-0-7354-1019-0 **Authors:Cretu, N (Cretu, Nicolae);** Pop, IM (Pop, Ioan-Mihail); Rosca, IC (Rosca, Ioan-Calin)-Eigenvalues and Eigenvectors of the Transfer Matrix	Indexata ISI WoS	
					17.INTERNATIONAL CONGRESS ON ULTRASONICS, PROCEEDINGS **Book Series:** Physics Procedia **Volume:** 3 **Issue:** 1 **Pages:** 1033-1040 **DOI:**10.1016/j.phpro.2010.01.133 **Published:** 2010 **Accession Number:** WOS:000275913100017 **Publisher:** ELSEVIER SCIENCE BV **IDS Number:** BNZ15 **ISSN:** 1875-3892 **Author(s):** Rosca, IC (Rosca, Ioan Calin); Chiriacescu, ST (Chiriacescu, Sergiu T.); **Cretu, NC (Cretu, Nicolae Constantin)-**Ultrasonic horns optimization	Indexata ISI WoS	
					18.INTERNATIONAL CONGRESS ON ULTRASONICS, PROCEEDINGS **Book Series:** Physics Procedia **Volume:** 3 **Issue:** 1 **Pages:** 489-495 **DOI:**10.1016/j.phpro.2010.01.064 **Published:** 2010 **Accession Number:** WOS:000275913100076 **Publisher:** ELSEVIER SCIENCE BV **IDS Number:** BNZ15 **ISSN:** 1875-3892	Indexata ISI WoS	

					Author(s): Cretu, N (Cretu, Nicolae); Pop, MI (Pop, Mihail-Ioan); Rosca, IC (Rosca, Ioan-Calin)-**:** Acoustic design by simulated annealing algorithm		
					19.AMTA '09: PROCEEDINGS OF THE 10TH WSEAS INTERNATIONAL CONFERENCE ON ACOUSTICS AND MUSIC: THEORY AND APPLICATIONS **Book Series:** WSEAS Mechanical Engineering Series **Pages:** 30-35 **Published:** 2009 **Accession Number:** WOS:000265381800004 **IDS Number:** BJF12 **ISBN:** 978-960-474-061-1 **Authors:** Curtu, I (Curtu, Ioan); Stanciu, MD (Stanciu, Mariana D.); **Cretu, NC (Cretu, Nicolae C.**); Rosca, CI (Rosca, Calin I.)- Modal Analysis of Different Types of Classical Guitar Bodies	Indexata ISI WoS	
					20**.** EUROPEAN NDT DAYS IN PRAGUE 2007: NDT IN PROGRESS, PROCEEDINGS **Pages:** 43-50 **Published:** 2007 **Accession Number:** WOS:000269312200005 **Research Areas:** Materials Science **IDS Number:** BKV07 **ISBN:** 978-80-214-3505-6 **Author(s):** Cretu, N (Cretu, Nicolae)- SOME CONSIDERATIONS ON THE MAGNETOACOUSTIC EFFECT OF FERROMAGNETIC ELASTIC CARBON STEEL RODS	Indexata ISI WoS	
		2.2 Articole in reviste si volume ale unor manifestari stiintifice indexate BDI	Minim 5 pentru Profesor	Reviste: 20 / nr. autori; Volume: 10 / nr. Autori, [max. 3 articole / manifestare]	1. AIP Conference Proceedings ICU Gdansk, 5-8 september 2011 1433,2012, pp. 535-538 http://dx.doi.org/10.1063/1.3703244 **Cretu, N.**, Pop, I.-M., Rosca, I.-C.-Eigenvalues and eigenvectors of the transfer matrix	10/3=3.3	104.8
					2.Physics Procedia 70, 2015, pp.262-265 **Nicolae Cretu**, Mihail Ioan Pop, Attila Boer-Quaternion Formalism for the Intrinsic Transfer Matrix http://www.sciencedirect.com/science/article/pii/S1875389215008913	20/3=6.66	
					3 .International Journal of Microstructure and Materials Properties 6 (3-4),2011, pp. 273-282 **Cretu, N.**, Pop, M.-I.-Some considerations on the magnetoacoustic effect of	20/2=10	

					ferromagnetic elastic carbon steel rods		
					4.Proceedings of SPIE - The International Society for Optical Engineering 7297, 72971T,2009 doi:10.1117/12.823676 Bibicu, I., Nicolescu, G., **Cretu, N.**-Mössbauer backscattering measurements on Sn http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1337648	10/3=3.3	
					5.Annals of DAAAM and Proceedings of the International DAAAM Symposium 2009,pp. 887-888 Zamfira, S., **Cretu, N.**, Cadareanu, R., Pop, M.I., Hoffmann, C.-Optimization design of the acoustical structures	10/5=2	
					6.Physics Procedia ISSN: 1875-3892 3 (1),2010, pp. 1033-1040 Roşca, I.C., Chiriacescu, S.T., **Creţu, N.C.**-Ultrasonic horns optimization	20/3=6.66	
					7.Physics Procedia ISSN: 1875-3892 3 (1),2010, pp. 489-495 **Cretu, N.**, Pop, M.-I., Rosca, I.-C.-Acoustic design by simulated annealing algorithm	20/3=6.6612	
					8 .NDT in Progress: 4th International Workshop of NDT Experts, Proceedings; European NDT Days in Prague 2007,pp. 43-50 **Cretu, N**.-Some considerations on the magnetoacoustic effect of ferromagnetic elastic carbon steel rods	10/1=10	
					9.International Conference on Computational Acoustics and its Environmenatal Applications, COMPAC, Proceedings 1997,pp. 161-168 Scalerandi, Marco, **Cretu, Nicolae**,Chiriacescu, Sergiu T., Sturzu, I., Rosca, Calin - Method for simulation of Gaussian pulse propagation in an elastic medium with periodical inhomogeneity	10/5=2	

					10 .Proceedings of the 10th WSEAS International Conference on Acoustics&Music:Theory and Appliaction, 2009, pp 30-35 ISSN: 1790-5095 ISBN: 978-960-474-061-1 Stanciu Mariana Domnica, Curtu Ioan, Lica Dumitru, **Cretu Nicolae** -Modal analysis of different types of classical guitar bodies	10/4=2.5	
					11 .Proceedings of 11th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2007, Hammamet, Tunisia, 05-09 September, 2007. 2007, pp.579-582 I.C.Rosca, **N.C Cretu** -DIAGNOSIS OF A MILL USED FOR POWDER SLAKED LIME MANUFACTURING	10/2=5	
					12 .Proceedings of 13th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2009, Hammamet, Tunisia, 16-21 October 2009, p.565-568 http://tmt.unze.ba/zbornik/TMT2009/142-TMT09-203.pdf Stanciu Mariana Domnica, Curtu Ioan, Lica Dumitru, **Cretu Nicolae** -A PRACTICAL EVALUATION METHOD OF DYNAMICAL BEHAVIOUR OF CLASSICAL GUITAR BODIES	10/5=2	
					13 .Proceedings of Vth International Workshop of NDT Experts, ISBN 978-80-214-3968-9 ,2009, pp.19-27 NDT in Progress 2009, October 12-14, Prague, Czech Republic **N Cretu**, G Nita, A Boer, M Pop -HIGHER ORDER STATISTICS IN MAGNETOACOUSTIC NDT	10/4=2.5	
					14 Romanian Academy of Science: Proceedings of SISOM 2007 and Homagial Session of the Commission of Acoustics, Bucharest 29-31 May, p.287-291 **Nicolae CREŢU**, Mihail POP -NONLINEARITY ESTIMATION BY USING THE HARMONIC DISTORTION METHOD OF SOUND WAVES PROPAGATION IN A FERROMAGNETIC SAMPLE	10/2=5	
					15 .Poceedings of 10th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2006, Barcelona-	10/2=5	

					Lloret de Mar, Spain, 11-15 September, 2006, p.901-904 http://www.tmt.unze.ba/zbornik/TMT2006/220-TMT06-238.pdf I.C.Rosca, **N. Cretu** -Industrial ultrasonic horns optimization		
					16.Paper #1032 Presented at the International Congress on Ultrasonics, Vienna, April 9 - 13, 2007, Session R21: doi:10.3728/ICUltrasonics.2007.Vienna.1032_cretu **Nicolae Cretu**, Gelu Nita, Attila Boer- Acoustic behavior of finite ferromagnetic samples https://www.researchgate.net/publication/269162754_Acoustic_behavior_of_finite_ferromagnetic_samples	10/3=3.3	
					17. IX INTERNATIONAL CONFERENCE FOR YOUNG RESEARCHERS WAVE ELECTRONICS AND ITS APPLICATIONS IN INFORMATION AND TELECOMMUNICATION SYSTEMS ST.PETERSBURG, RUSSIA, 10 – 15 October 2006 **N.Cretu -**STUDY OF THE MAGNETOACOUSTIC EFFECT ON FERROMAGNETIC ELASTIC SPECIMENS	10/1=10	
					18.Romanian Reports of Physics 54(5-6) ,2009, pp515-519 Bibicu I, Cretu N C-Mossbauer backscattering measurements on Eu-151	20/2=10	
					19.Hyperfine Interactions 192(1-3), 2009, 85-91 Bibicu I, Nicolescu G, **Cretu N.C**-A versatile gas-flow proportional counter for Mossbauer spectroscopy	20/3=6.6	
					20.Proceedings- Integral Methods in Science and Engineering Chapman&Hall/CRC, Editors: Bertram, C. Costanda and A.Struthers 1998 pag.107-112 **N.Cretu**, G.Nita, I. Sturzu, C. Rosca -A semi-analytic method for the study of acoustic pulse propagation in inhomogeneous elastic 1-D media	10/4=2.5	
		2.3 Brevete de inventie nationale		25/nr de autori	**Fluxmetru Magnetic Integrator FIM 02**- Universitatea Transilvania Brasov (**Cretu N**) Aprobare de model nr 285/5286/1991 CNSMC Inspectia Metrologiei de Stat Bucuresti (Aparatul a fost achizitionat si utilizat de catre Electromagnetica Bucuresti, Electroprecizia Sacele, S. C. Mobistil Urziceni)	25	25
		2.4 Granturi	Director/	10xnr	1.**Responsabil UTBv**- CIPA-CT094132 COPERNICUS PROJECT-proiect international,	10x4=40	110

		, proiecte castigate prin competitie (nationale)	responsabil - Minim 3 pentru Profesor / CS I dintre care cel putin unul ca director	de ani	Director Prof P.P. Delsanto, Politecnico di Torino, Italia 2. **Director de proiect** CEEX- 2-CEX06-11-103 MENELAUS –"Medii neliniare elastice, abordari ultraacustice si simulari computationale" 3.**Responsabil Partener UTBv** Proiect CEEX 2CEX06-11-14 NANODOPAZ, "Microstructura sistemelor micro si nanometrice de a -Al2O3 - ZrO2 dopate cu pamanturi rare pentru compozite performante (electrolit solid in celule de combustie de temperaturi intermediare - SOFC-IT" Director de proiect Popescu-Pogrion Amelie, INCDFM Bucuresti-Magurele. 4.**Responsabil Partener UTBv** Proiect CNCSIS- Dezvoltarea spectroscopiei Mossbauer de suprafață pentru izotopii Sn^{119} și Eu^{151}-Director de proiect Cerc St I Dr Ing Fiz Bibicu Ion, INCDFM Bucuresti Magurele	10x2=20 10x3=30 10x2=20	
3	A3. Recunoasterea activitatii	3.1 Citari in revisite ISI	5/nr autori pt FI<0.5 10/nr autori, pt 1<FI>05 15/nr autori, pt 1.5<FI>1 20/nr autori, pt 2<FI>1.5		Vezi anexa **CITARI**	139.74	151.74
		3.3 Membru in colectivele de redactie sau comitete stiintifice al revistelor si manifestarilor stiintifice, organizator de manifestari stiintifice /			1.Membru in Comitetul Local de Organizare al conferintei internationale Romanian Conference on Advanced Materials - ROCAM 2009, 25-28 Aug. 2009, Brasov. Romania 2.Membru in Comitetul Local de Organizare al conferintei „14^{th} Conference of Plasma Physics and Applications - 14^{th} CPPA, Brasov 14-18.09.2007, 3.Membru in Comitetul Local de Organizare al Conferinţei Internaţionale « Advanced Laser Technologies – ALT'06», Braşov, 7-13 Sept. 2006, 4.Membru in Comitetul de Organizare al Conferinţei Internaţionale " Third International Conference on Amorphus and Nanostuctured Chalcogenides-ANC-3" Brasov, Iulie 2-6, 2007 5.Membru in Comitetul Stiintific al Conferintei Nationale "National Conference on Physics", Bucuresti, 2005 6.Membru in comitetul Stiintific al Conferintei Nationale de Fizica, Pitesti, 2004		

		Recenzor pentru reviste si manifestari stiintifice nationale si internationale indexate ISI			7.Membru in Comitetul Local de Organizare al Conferintei Internationale "Light at Extreme Intensities- LEI 2009", Oct. 16 - 21, 2009, Brasov, Romania 8.Membru in Comitetul de Organizare al Conferinţei Internaţionale " Third International Conference on Amorphus and Nanostuctured Chalcogenides-ANC-4" Brasov, Iulie, 2009 9.Membru în Comitetul de organizare al International Conference on Amorphous and Nanostructured Chalcogenides ANC-6 6-th Edition, Brasov, iunie 2013		
		3.4 Experienta de management, analiza şi evaluare în cercetare şi/sau învăţământ	3.4.1 Conducere	4x ani desfasurare	1.Coordonator Laboratorul CAP (Computational and Applied Physics) din cadrul Centrului de Cercetare SISTEME ELECTRICE AVANSATE (SEA)-ICDT http://menelaus.unitbv.ro/CAP.pdf 2. Coordonator Laboratorul de Acustica Fizica, Colectivul de Fizica, Departamentul IEFA 3. Coordonator Colectivul de Fizica din Departamentul IEFA 4. Coordonator grup cercetare" Computer simulation and wave propagation group(Cretu, Boer, Pop)" din cadrul colectivului de Fizică Departamentul IEFA 5. Initiator si susținător al fizicienilor din zona Brasov, prin coordonare site : Forumul Fizicienilor Brasoveni Adresa: http://menelaus.unitbv.ro/forum/	4x3=12	
			3.4.2 Membru		1.Secretar Stiintific Facultatea ITMI perioada 2008-2011 2. Membru in Consiliul Profesoral Facultatea ITMI 2000-2011 2.Membru în Consiliul Departamentului IEFA perioada 2011-2015		

ANEXA Citări

Conf Dr Nicolae Cretu

Departamentul IEFA

Universitatea Transilvania din Braşov

Modul de calcul: 5/nr autori pt FI<0.5

10/nr autori, pt 1<FI>05

15/nr autori, pt 1.5<FI>1

20/nr autori, pt 2<FI>1.5

Revista şi articolul citat	Referinţe citare	Impact Factor/ (Eigenfactor.org)	Punctaj calculat
Journal of Sound and Vibration, Volume 332, Issue 20, 30 September 2013, Pages 4940-4947 Wave transmission approach based on modal analysis for embedded mechanical systems (**Cretu,** Nita, Pop)	Finite Elements in Analysis and Design Volume 91, 15 November 2014, Pages 48-58 Modified Hermitian cubic spline wavelet on interval finite element for wave propagation and load identification (Article) Xue, X., Zhang, X. , Li, B., Qiao, B., Chen, X.	2.017/3	20/3=6.66
Applied Surface Science Volume 257, Issue 14, 1 May 2011, Pages 6220-6225 Influence of ionic liquids on the surface properties of poplar veneers (Croitoru, C. , Patachia, S.a, **Cretu, N.**, Boer, A., Friedrich, C.)	1. Chemical Engineering Research and Design Volume 93, 1 January 2015, Pages 257-268 A mild method of wood impregnation with biopolymers and resins using 1-ethyl-3-methylimidazolium chloride as carrier (Article) 2. Journal of Wood Chemistry and Technology Volume 35, Issue 2, 4 March 2015, Pages 113-128 New method of wood impregnation with inorganic compounds using ethyl methylimidazolium chloride as carrier (Article)	2.348/0.5676 1.711/0.4361	20/5=4 15/5=3

	3. Applied Surface Science Volume 314, 30 September 2014, Pages 956-966 Ionic liquids influence on the surface properties of electron beam irradiated wood (Article)	2.711/0.5503	20/5=4
	4. Holzforschung Volume 68, Issue 5, 1 July 2014, Pages 555-566 Thermoplastic deformation of poplar wood plasticized by ionic liquids measured by a nonisothermal compression technique (Article)	1.565/0.4427	15/5=3
	5. Soft Materials Volume 12, Issue 4, 13 October 2014, Pages 371-379, Cryogels based on poly(Vinyl Alcohol)/ionic liquids: From obtaining to antimicrobial activity (Article)	1.244/0.3139	15/5=3
	6. Canadian Journal of Chemical Engineering Volume 92, Issue 11, 1 November 2014, Pages 1839-1858 Torréfaction de la biomasse lignocellulosique dans les liquides ioniques: Analyse comparative par spectroscopies de surface (Article)	1.061/0.2786	15/5=3
	7. International Biodeterioration and Biodegradation Volume 84, October 2013, Pages 412-415 Antifungal activity of ionic liquid applied to linen fabric (Article)	2.131/0	20/5=4
	8. Journal of Applied Polymer Science Volume 129, Issue 4, 15 August 2013, Pages 2057-2062 Micellization behavior of ionic liquid surfactants with two	1.768/0.3058	15/5=3

	hydrophobic tail chains in aqueous solution (Article) 9. Applied Surface Science Volume 258, Issue 18, 1 July 2012, Pages 6723-6729 Effect of UV exposure on the surface chemistry of wood veneers treated with ionic liquids (Article) 10. Advanced Materials Research Volume 393-395, 2012, Pages 668-671 2011 International Conference on Biotechnology, Chemical and Materials Engineering, CBCME 2011; Kunming; China; 28 December 2011 through 29 December 2011; Code 87902 Determination on crystallinity of ionic liquids pretreated biomass (Conference Paper) 11. Environmental Engineering and Management Journal Volume 10, Issue 8, August 2011, Pages 1149-1154 Ecologic modification of wood using alkylimidazolium-based ionic liquids (Article) 12 Industrial Crops and Products Volume 44, January 2013, Pages 511-519 Thermal behavior of some wood species treated with ionic liquid (Article)	2.711/0.5503 0.744/0 1.065/0.057 2.837/0.5719	20/5=4 10/5=2 15/5=3 20/5=4
3. Optoelectronics and Advanced Materials, Rapid Communications Volume 5, Issue 2, 2011, Pages 143-145 Structural and chemical properties of cerium-magnetoplumbite in cerium based IT-SOFC compounds	1.UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Volume 75, Issue 1, 2013, Pages 169-180 Influence of sintering temperature on the structural and electrical properties of ceria-based composites (Article)	0/0	0

(Vlaicu, A.M , Mercioniu, I, Vasile, B.S.b, Negrila, C.C.a, Logofatu, C. **Cretu, N.C**. Nita, P. Popescu-Pogrion, N.)	2. Optoelectronics and Advanced Materials, Rapid Communications Volume 6, Issue 11-12, 2012, Pages 1073-1080 Structural investigations on electrodes - electrolytes systems for intermediate temperature solid oxide fuel cell applications (Article) 3. Bulgarian Chemical Communications Volume 44, Issue 4, 2012, Pages 395-398 Electrochemical analysis of solid oxide electrolytes for intermediate temperature fuel cell (Article) 4. Optoelectronics and Advanced Materials, Rapid Communications Volume 5, Issue 7, July 2011, Pages 773-777 Structural and electrical properties of yttrium-doped ceria ceramic composites (Article)	0.394/0 0.201/0 0.394/0	5/6=0.83 5/6=0.83 5/6=0.83
4 Physics Procedia Volume 3, Issue 1, 1 January 2010, Pages 1033-1040 International Congress on Ultrasonics, ICU 2009; Santiago; Chile; 11 January 2009 through 17 January 2009; Code 79554 Ultrasonic horns optimization (Conference Paper) Roşca, I.C. , Chiriacescu, S.T., **Creţu, N.C**.	1. Transactions of the Canadian Society for Mechanical Engineering, Volume 37, Issue 3, 2013, Pages 905-916 On the design and analysis of acoustic horns for ultrasonic welding (Article) 2. Transactions of the North American Manufacturing Research Institution of SME Volume 41, 2013, Pages 404-411 41st North American Manufacturing Research Conference 2013, NAMRC 2013; Madison, WI; United States; 10 June 2013 through 14 June 2013; Code 101979 Methodology for shape optimization of ultrasonic	0.362/0 (cf SCOPUS) 0.066/0(SCOPUS)	5/3=1.66 5/3=1.66

	amplifier using genetic algorithms and simplex method (Conference Paper) 3. Journal of Manufacturing Systems Volume 32, Issue 4, October 2013, Pages 523-528 Methodology for shape optimization of ultrasonic amplifier using genetic algorithms and simplex method (Conference Paper) 4. Jiliang Xuebao/Acta Metrologica Sinica Volume 34, Issue 3, May 2013, Pages 262-266 Design of ultrasonic horn for soft magnetic ferrite de-burring (Article) 5. Applied Mechanics and Materials Volume 278-280, 2013, Pages 197-201 2012 International Conference on Mechatronics and Control Engineering, ICMCE 2012; Guangzhou; China; 29 November 2012 through 30 November 2012; Code 95258 Design of ultrasonic horn for soft magnetic ferrite de-burring (Conference Paper) 6. Advanced Materials Research Volume 139-141, 2010, Pages 848-851 2010 International Conference on Manufacturing Engineering and Automation, ICMEA2010; Guangzhou; China; 7 December 2010 through 9 December 2010; Code 83170 Building of ultrasonic vibration precision cutting system and experimental study of cutting for plastic	1.682/0.2298 0.03/0 (SCOPUS) 0.15/0 (SCOPUS) 0.14/0	15/3=5 5/3=1.66 5/3=1.66 5/3=1.66

	material (Conference Paper)		
5. Proceedings of SPIE - The International Society for Optical Engineering Volume 7297, 2009, Article number 72971T Advanced Topics in Optolectronics, Microelectronics, and Nanotechnologies IV; Constanta; Romania; 28 August 2008 through 31 August 2008; Code 75949 Mössbauer backscattering measurements on Sn (Conference Paper)	1. Proceedings of SPIE - The International Society for Optical Engineering Volume 7821, 2010, Article number 78210K Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies V; Constanta; Romania; 26 August 2010 through 29 August 2010; Code 83561 Mössbauer measurements on SnSe2 (Conference Paper)	0.212/0 (SCOPUS)	5/3=1.66
6 Computational Materials Science Volume 44, Issue 4, February 2009, Pages 1312-1318 Acoustic behavior design with simulated annealing (Article) Cretu, N. , Pop, M.-I.	1. Mathematical Problems in Engineering Volume 2014, 2014, Article number 272496 Binary structuring elements decomposition based on an improved recursive dilation-union model and RSAPSO method (Article) 2. Corrosion Science Volume 77, December 2013, Pages 297-307 Computational design and optimization of multilayered and functionally graded corrosion coatings (Article) 3. Finite-Element-Model Updating Using Computional Intelligence Techniques: Applications to Structural Dynamics 2010, Pages 1-250 Finite-element-model updating using computional intelligence techniques: Applications to structural dynamics (Book) Marwala, T. University of Johannesburg, Faculty of Engineering and the Built Environment, Cnr Kingsway	0.762/0.2163 4.422/0.728 BOOK	10/2=5 20/2=10

	and University Road, Auckland Park 2092, South Africa		
7. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control Volume 55, Issue 2, February 2008, Article number 4460875, Pages 415-420 ΔE effect for polycrystalline ferromagnetic rods (Article) **Cretu, N.**a , Nita, G.b, Boer, A.a	1. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control Volume 57, Issue 4, April 2010, Article number 5442888, Pages 942-950 Vibration analysis of an isotropic elastic sphere contacting a semi-infinite cubic solid (Article)	1.512/0.5993	15/3=5
8. Computational Materials Science Volume 31, Issue 3-4, November 2004, Pages 329-336 Pulse propagation in finite elastic inhomogeneous media (Article) Cretu, N.a , Nita, G.b	1.Composites Part B: Engineering Volume 45, Issue 1, February 2013, Pages 50-62 Model-based damage reconstruction in composites from ultrasound transmission (Article) 2. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control Volume 59, Issue 7, 2012, Article number 6242801, Pages 1443-1456 Probabilistic inverse problem to characterize tissue-equivalent material mechanical properties (Article) 3. AIP Conference Proceedings Volume 1433, 2012, Pages 375-378 International Congress on Ultrasonics, ICU 2011; Gdansk; Poland; 5 September 2011 through 8 September 2011 Dispersive model selection and reconstruction for tissue culture ultrasonic monitoring (Conference Paper) 4. Procedia Engineering Volume 14, 2011, Pages 169-176	2.983/0.8284 1.512/0.5993 0.152/0 (SCOPUS) 0.274 /0 (SCOPUS)	20/2=10 15/2=7.5 5/2=2.5 5/2=2.5

	12th East Asia-Pacific Conference on Structural Engineering and Construction, EASEC12; Hong Kong; Hong Kong; 26 January 2011 through 28 January 2011; Code 86909 Impact damage characterization in composites using signal processing techniques (Conference Paper) 5. ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings 2011, Article number 5946850, Pages 1789-1792 36th IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2011; Prague; Czech Republic; 22 May 2011 through 27 May 2011; Category numberCFP11ICA-ART; Code 85875 Robust parametrization for non-destructive evaluation of composites using ultrasonic signals (Conference Paper) 6. Proceedings - IEEE Ultrasonics Symposium 2007, Article number 4409982, Pages 1625-1628 2007 IEEE Ultrasonics Symposium, IUS; New York, NY; United States; 28 October 2007 through 31 October 2007; Category number07CH37920; Code 72828 Frequency selective wave propagation in graded materials (Conference Paper) 7. Proceedings of SPIE - The International Society for Optical Engineering Volume 6616, Issue PART 2,	0.465/0 (SCOPUS) 0.198/0(Scopus) 0.212/0(Scopus)	5/2=2.5 5/2=2.5 5/2=2.5

	2007, Article number 66163F Optical Measurement Systems for Industrial Inspection V; Munich; Germany; 18 June 2007 through 22 June 2007; Code 70571 Validation of an algorithm for wave propagations in graded materials with an analytical solution (Conference Paper)		
9.Journal of the Acoustical Society of America Volume 104, Issue 1, 1998, Pages 57-63 Ultrasonic pulse propagation in inhomogeneous one-dimensional media (Article) **Cretu, N.**a, Delsanto, P.P.b, Nita, G.a, Rosca, C.c, Scalerandi, M.b, Sturzu, I.a	1. European Physical Journal E Volume 30, Issue 3, November 2009, Pages 245-256 Behavior of an electrolytic cell containing two groups of ions submitted to a step-like external voltage (Article) 2. Applied Physics Letters Volume 95, Issue 6, 2009, Article number 064101 Electrical behavior of nematic cells oriented by polypyrrole surface treatment (Article) 3. Physical Review B - Condensed Matter and Materials Physics Volume 79, Issue 6, 18 February 2009, Article number 064108 Analysis of elastic nonlinearity using the scaling subtraction method (Article) 4. Japanese Journal of Applied Physics, Part 1: Regular Papers and Short Notes and Review Papers Volume 44, Issue 7 A, 8 July 2005, Pages 5107-5112 Bandwidth characterization of pulsed array transducer in the time domain (Article) 5. Acta Mechanica Volume 174, Issue 1-2, January 2005, Pages 51-61	1.757/0.8553 3.302/1.3875 3.736/1.4281 1.127/0.3296 1.465/0.4956	15/6=2.5 20/6=3.66 20/6=3.66 15/6=2.5 15/6=2.5

	Application of counterpropagating nonlinear waves to material characterization (Article) 6. Acoustical Physics Volume 49, Issue 2, March 2003, Pages 189-192 Sound velocity dispersion and second viscosity in media with nonequilibrium chemical reactions (Article) 7. Acta Acustica united with Acustica Volume 87, Issue 4, July 2001, Pages 437-442 Ultrasound radiation into water by a Lamb wave device using a bilayer with spatially varying thickness ratio (Article) 8. Acoustical Physics Volume 47, Issue 1, January 2001, Pages 102-105 Sound amplification in inhomogeneous flows of nonequilibrium gas (Article) 9. Japanese Journal of Applied Physics, Part 1: Regular Papers and Short Notes and Review Papers Volume 38, Issue 5 B, 1999, Pages 3154-3156 Characteristics of M-sequence signal in an inhomogeneous medium (Article) 10. Journal of the Acoustical Society of America Volume 106, Issue 5, 1999, Pages 2424-2430 Numerical simulation of pulse propagation in nonlinear 1-D media (Article) Scalerandi, M.a, Delsanto, P.P.a, Chiroiu, C.b, Chiroiu, V.b 11. Ultrasonics Volume 37, Issue 7, November 1999, Pages 505-	0.305/0.1422 0.783/0.383 0.88/0.1422 1.127/0.3296 1.503/0.5829 0.737/0.5288	5/6=0.83 10/6=1.66 10/6=1.66 15/6=2.5 15/6=2.5 10/6=1.66

	510 Ultrasound radiation into water by a Lamb wave device using a piezoelectric ceramic plate with spatially varying thickness (Article)		
		TOTAL	**139.74**

TOTAL A1+A2+A3=87.17+572.861+151.74=811.77 puncte

Braşov la 28.09.2015 Conf Dr Nicolae CREŢU