ANEXA 3b

UNIVERSITATEA POLITEHNICA DIN BUCUREȘTI
FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE Profesor/Abilitare Domeniul: INGINERIE MECANICĂ

PREDOI Mihai Valentin, Profesor, Departamentul de Mecanică
Facultatea de Ingineria Sistemelor Biotehnice, Universitatea POLITEHNICA din București

Condiții	**Îndeplinire condiții**
A. Doctorat	**Diploma de Doctor Seria P, Nr. 0001078, emisă în baza Ordinului Ministrului Învățământului nr. 468/ 25.05.1998.** **Diplôme de Docteur de l'Université Pierre et Marie CURIE (Paris 6) nr. 75 VI 56 din 24.02.1998**
B. Îndeplinirea standardelor minime naționale conform OMENCS nr. 6.129/20.12.2016, [MO, I, 123 /15.02.2017]	Standarde îndeplinite, conform Comisiei CNATDCU Nr. 17 - COMISIA INGINERIE MECANICA, MECATRONICA SI ROBOTICA **Anexată** : Fișa de calcul și de susținere a îndeplinirii standardelor minimale specifice domeniului, în acord cu realizările menționate
C. Atestarea studiilor (diplomă + Foi Matricole) şi a altor realizări profesionale	**Diploma de Inginer în profilul Mecanic, specializarea Aeronave, Seria C nr. 6637 / 06.1984** emisă de Institutul Politehnic București, Facultatea de Aeronave, cu Nr. 2787/1.3.1985

Condiții minimale si obligatorii; ***Observație: Cu negru sunt trecute cerințele minimale pentru titlul de profesor, iar cu roșu punctajele realizate de candidat***

Domeniul de activitate		**Indicatori**	**Minim**	**Realizat**
Activitatea didactica / profesionala (A1)	**A1.1**	**N1=N1.1+N1.3**	**2**	**11**
		N1.1	**1**	**2**
		N1.3	**1**	**9**
	A1.2	**N2 = N2.1+N2.2+N2.3**	**3**	**6**
		N2.1	**2**	**3**
Activitatea de cercetare (A2)	**A2.1 + A2.3**	**P1+P2**	**10**	**73.462**
		P1	**6**	**73.462**
	A2.2	**N3**	**10**	**23**
		N3.1	**5**	**10**
	A2.4 +A2.5	**N4**	**2**	**3**
		N4.3	**1**	**1**
Recunoașterea impactului activității (A3)	**A3.1**	**S1+S2**	**50**	**345.81**
	A3.2	**N5**	**10**	**106**
	A3.3	**C**	**25**	**1020.9**

Subsemnatul, PREDOI Mihai Valentin, candidat la concursul de abilitare în domeniul Inginerie mecanică, Profesor la Facultatea de Ingineria Sistemelor Biotehnice, Universitatea POLITEHNICA din București, arondat Comisiei de Specialitate CNATDCU OMENCS nr. 6.129/20.12.2016, [MO, I, 123 / 15.02.2017] Nr. 17, COMISIA INGINERIE MECANICA, MECATRONICA SI ROBOTICA, declar pe propria răspundere, cunoscând prevederile art. 292 privind falsul în declarații, din Legea 286/2009 - Codul Penal, că sunt îndeplinite toate Standardele minimale prevăzute de Metodologia UPB 2013 [Secțiunea II.3] și OMECTS nr. 6.129/20.12.2016, pentru depunerea dosarului în vederea abilitării, în momentul înscrierii la concurs, și susțin veridicitatea informațiilor prezentate în dosar și în materialul de mai sus. Lucrările considerate a fi incluse în Baza ISI Thomson Reuters sau în alte Baze de Date Internaționale [BDI] sunt vizibile în aceste baze, în dreptul numelui candidatului, la această dată.

Data,
24/09/2022

PREDOI Mihai Valentin

Domeniul Fundamental: ŞTIINŢE INGINEREŞTI
Domeniul de Studii Universitare: INGINERIE MECANICA
Comisia CNATDCU [nr/denumire]: 17. INGINERIE MECANICA, MECATRONICA SI ROBOTICA

Fişa de calcul şi de susţinere a îndeplinirii standardelor minimale Profesor/Abilitare
Condiţii Minimale pentru Înscrierea la Concurs
[OMECTS 6.129_2016]

Prof.dr. ing. PREDOI Mihai Valentin

1. **Activitatea didactica şi profesională (DID)**
   (A1) Îndeplinire criterii: N1.1=2 (min.1); N1.2=2; N1.3=9 (min.1); N1=N1.1+N1.2 = 4 (min.2); N2.1=3 (min. 2) ; N2.2=3; N2=6 (min.4).

1.1 Manuale suport de curs		
N1.1 **Format tipărit /electronic [1] (min.100 pag.) Coordonator/prim autor; N1.1 =3**		
Nr. crt.	Carte	Pag.
1	M.V. Predoi, *Vibraţii Mecanice - Modele şi aplicaţii în Matlab*, Ed. Matrix Rom, ISBN- 978-973-755-687-5, Bucureşti, 2011 *La Biblioteca Națională, înregistrat:* https://aleph.bibnat.ro/F/FTQU33LX8M5NELX8B81UXRXJ2628LMXJTVUL2EEEKPPBDIMNVN-72939?func=full-set-set&set_number=049366&set_entry=000065&format=999	255
2	M.V.Predoi, M. Bugaru, A. Motomancea, *Introducere în modelarea dinamicii plăcilor plane*, Ed. Bren, ISBN 973-9493-29-7, Bucureşti, 132 pag., 1999 *La Biblioteca Națională, înregistrat:* https://aleph.bibnat.ro/F/FTQU33LX8M5NELX8B81UXRXJ2628LMXJTVUL2EEEKPPBDIMNVN-01559?func=full-set-set&set_number=049366&set_entry=000089&format=999	132
N1.2 **Format tipărit /electronic [1] (min.100 pag.) Coautor; N1.2 =2**		
Nr. crt.	Carte	
1	R. Voinea, I. Stroe, M.V. Predoi, *Technical Mechanics.* Ed. Politehnica Press, Bucureşti, 271 pag., 2010, (reeditată 2012), ISBN – 978-606-515-184-0. *La Biblioteca Națională, înregistrat:* https://aleph.bibnat.ro/F/FTQU33LX8M5NELX8B81UXRXJ2628LMXJTVUL2EEEKPPBDIMNVN-65180?func=full-set-set&set_number=049283&set_entry=000001&format=999	271
2	N. Enescu, C. Carp-Ciocârdia, M.V. Predoi, M. Savu, *Mecanica pentru ingineri din profilul electric*. Ed. MATRIX ROM, Bucureşti, 277 pag , 2000, ISBN 973-685-181-8 *La Biblioteca Națională, înregistrat:* https://aleph.bibnat.ro/F/FTQU33LX8M5NELX8B81UXRXJ2628LMXJTVUL2EEEKPPBDIMNVN-66021?func=find-b&REQUEST=Mecanica+pentru+ingineri+din+profilul+electric&x=38&y=12&find_code=WTI&ADJACENT=N	277
N1.3 **Format electronic disponibil pe platforma universităţii /departamentului (autor) N1.3 = 9**		
1	M.V. Predoi, 09-AERO-L-A1-S2: Mecanică-statică, cinematică (Seria CA - 2020), UPB.09.D.02.O.005 (https://curs.upb.ro/course/view.php?id=5908) pct=193*1,5	193
2	M.V. Predoi, 09-AERO-L-A2-S1: Dinamica solidului. Mecanica analitica (Seria B - CA 2020), (pct. 230*1,5) UPB.09.T.03.O.004 (https://curs.upb.ro/2021/course/view.php?id=8137)	230
3	M.V. Predoi, 09-AERO-M-A1-S1: Vibraţii şi zgomot (Noise and Vibration), (Seria ITA - 2020) UPB.09.F.09.O.037 (https://curs.upb.ro/course/view.php?id=5908) (pct=265*1,5*1.5)	265
4	M.V. Predoi,07-ISB-M-A2-S1: Interacţiunea vibraţii-zgomot la structuri mecanice (Seria IPACMSM - 2020) 07-ISB-M-A2-S1 (https://curs.upb.ro/course/view.php?id=9530) (pct. 88*1,5)	88
5	M.V. Predoi, 07-ISB-M-A2-S1: Diagnoza şi monitorizarea vibroacustică (Seria CZV - 2020) (https://curs.upb.ro/course/view.php?id=9534) (pct. 140*1.5)	140

6	M.V. Predoi, 07-ISB-M-A1-S1: Metoda elementului finit și metode aproximative în inginerie (Seria IPACMSM - 2020) (https://curs.upb.ro/course/view.php?id=9449) (pct. 150*1,5)	150
7	M.V. Predoi, 07-ISB-M-A1-S2: Metode aproximative-metoda elementului finit în vibroacustică (Seria CZV - 2020) (https://curs.upb.ro/course/view.php?id=9486#section-16) (pct. 155*1,5)	155
8	M.V. Predoi Controlul integrității structurilor folosind ultrasunete, M-A1-S2-CISU-IPACMSM (https://isb.curs.pub.ro/2019/course/view.php?id=296) (pct=120*1,5)	120
9	M.V. Predoi, Mécanique et théorie des mécanismes (2021) 12-FILS-L-A1-S1 (https://curs.upb.ro/2021/course/view.php?id=764) (pct. =192*1.5*1.5)	192

1.2 Material didactic / Dezvoltare laboratoare, aplicații (N2=N2.1+N2.2+N2.3)

N2.1
Standuri laborator (construcție/modernizări) certificate de directorul de laborator N2.1=3

Nr. crt.	Standuri laborator „Controlul integrității structurilor" Bn035	**n**
1	Stand de analiză cu unde ultrasonore ghidate a structurilor metalice	1
2	Stand de analiză a vibrațiilor structurilor mecanice	1
3	Stand de analiză a semnalelor ultrasonore prin medii bifazice	1

N2.2
Carte aplicații format tipărit sau electronic (autor/coautor) N2.2 = 3

Nr. crt.	Carte	**n**
1	I. Stroe, N. Ene, M.V. Predoi, ș.a., Probleme de Vibrații pentru studenții din învățământul superior tehnic. Ed. Printech, ISBN 973-652-641-0, București, 168 pag., 2002. *La Biblioteca Națională, înregistrat:* https://aleph.bibnat.ro/F/FTQU33LX8M5NELX8B81UXRXJ2628LMXJTVUL2EEEKPPBDIMNVN-66420?func=find-b&REQUEST=Probleme+de+Vibra%C8%9Bii+pentru+studen%C8%9Bi+din+%C3%AEnv%C4%83%C8%9B%C4%83m%C3%A2ntul+superior+tehnic&x=40&y=10&find_code=WTI&ADJACENT=Y	**1**
2	I. Stroe, C.D.Carp-Ciocârdia, A. Motomancea, M.V. Predoi, ș.a., Probleme de Dinamică pentru studenții din învățământul superior tehnic. Ed. Printech, București, 2000. *La Biblioteca Națională, înregistrat:* https://aleph.bibnat.ro/F/FTQU33LX8M5NELX8B81UXRXJ2628LMXJTVUL2EEEKPPBDIMNVN-66553?func=find-b&REQUEST=+Probleme+de+Dinamic%C4%83+pentru+studen%C8%9Bii+din+%C3%AEnv%C4%83%C8%9B%C4%83m%C3%A2ntul+superior+tehnic&x=32&y=9&find_code=WTI&ADJACENT=Y	**1**
3	F.P. Simion, M. Boiangiu, M.V. Predoi, ș.a, *Aplicații în Inginerie ale Mecanicii*, Ed. Bren, București, ISBN 973-98652-8-3, 302 pag., 1998,. *La Biblioteca Națională, înregistrat:* https://aleph.bibnat.ro/F/FTQU33LX8M5NELX8B81UXRXJ2628LMXJTVUL2EEEKPPBDIMNVN-67507?func=find-b&REQUEST=Aplica%C5%A3ii+%C3%AEn+Inginerie+ale+Mecanicii&x=44&y=11&find_code=WTI&ADJACENT=Y	**1**

2. Activitatea de cercetare științifică, dezvoltare tehnologică și inovare (CDI)

(A2) Îndeplinire criterii: P1+P2 = 73.462 (min. 10); P1=P1.1+P1.2+P1.3+P1.4= 73.462 (min. 6); N3=N31+N3.2= 23 (min.10) N3.1= 10 (min.5)

A2.1 Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS)

A2.1	**Autor corespondent / prim autor;**	**n <=3 P1.1 =2·(0.2+FI) n>=4 P1.2 = 2·3·(0.2+FI)/n**	
Nr. crt.	**Articol**	n	P1.1; P1.2
1	**M.V. Predoi**, M. Rousseau, Recent results about Lamb waves reflection at the free edge of an elastic layer, **Acta Acustica united with Acustica**, vol. 89 (4), pg. 632-639, **2003**. (ISSN: 1610-1928), (Factor de impact: 0.679/2013, 0.707/2007, 0.523 /2006) (Scor Relativ de Influenta: 0.826/2013), (IDS Number: 709WW) (http://www.ingentaconnect.com/content/dav/aaua/2003/00000089/00000004/art00008) (WOS:000184650400008).	2	2(0.2+0.679) = 1.758
2	**M.V. Predoi**, N. Constantin, A. Craifaleanu, A numerical model for Lamb waves propagation in plates, **UPB Scientific Bulletin, Series A: Applied Mathematics and Physics**, 67 (4), pp. 139-146, ISSN 1223-7027, **2005**, (Impact Factor: 0.28/2013; A.I.S.:0.067).	3	2(0.2+0.28)= 0.96

3	**M. V. Predoi**, M. Rousseau, Lamb Waves Propagation in Elastic Plane Layers with a Joint Strip, **Ultrasonics** , vol. 43 (7), pg. 551-559, **2005**. (ISSN: 0041-624X) (Scor Relativ de Influenta: 1.1750 /2010; 1.466/2013) (https://doi.org/10.1016/j.ultras.2004.11.004) (IDS Number: 944ZW) (Impact factor 1.838/2012; 1.470/5years) (WOS:000230470900008).	2	2(0.2+1.838)= 4.076
4	**M. V. Predoi**, M. Castaings, B. Hosten, C. Bacon, Wave propagation along transversely periodic structures, **Journal of the Acoustical Society of America**, vol. 121 (4), pg. 1935–1944, **2007**. (ISSN: 0001-4966), (Impact factor: 1.555/2013; A.I.S: 0.542/2013) (Scor Relativ de Influenta: 1.500/2010; 1.339/2013), (http://dx.doi.org/10.1121/1.2534256) (IDS Number: 156ZE) (WOS:000245687600011).	4	6(0.2+1.555)/ 4 = 2.633
5	**M.V. Predoi**, Guided waves dispersion equations for orthotropic multilayered pipes solved using standard finite elements code, **Ultrasonics**, 54(7), pg. 1825-1831, 09/**2014**, (ISSN: 0041-624X), (http://dx.doi.org/10.1016/ j.ultras.2014.01.019) DOI: 10.1016/j.ultras.2014.01.019) (Impact Factor: 2.028/2013; 5-Year Impact Factor: 2.054), (A.I.S.: 0.637) (Scor Relativ de Influenta: 1.21693/2011; 1.466/2013) (IDS Number: AN8JN) (WOS:000340850600012).	1	2(0.2+2.028)= 4.456
6	**M. V. Predoi**, C. C. Petre, O. Vasile, M. Boiangiu, High Frequency Longitudinal Damped Vibrations of a Cylindrical Ultrasonic Transducer, **Shock and Vibration** (06.**2014**), Article ID 105971, pg. 1-8, Open access: http://dx.doi.org/10.1155/2014/105971, doi:10.1155/2014/105971; (ISSN: 1070-9622 (Print); ISSN: 1875-9203. (Impact Factor: 0.608/2013) (AIS: 0.164) (Scor Relativ de Influenta: 0.626/2013)) (WOS:000338557800001).	4	6(0.2+0.608)/4 = 1.212
7	**M.V. Predoi**, M. Ech Cherif El Kettani, D. Leduc, P. Pareige, K. Coné, Use of shear horizontal waves to distinguish adhesive thickness variation from reduction in bonding strength, **Journal of the Acoustical Society of America**, vol. 138(2), pg. 1206–1213, **2015** (ISSN: 0001-4966), (Impact factor: 1.555/2013, 1.503/2014) (A.I.S: 0.542/2013) (Scor Relativ de Influenta: 1.500/2010; 1.339/2013), http://dx.doi.org/10.1121/1.4928299 (WOS:000360652900071) (*Premiat UEFISCDI-Q2*).	5	6(0.2+1.555)/5 = 2.106
8	Griguță, A.D., **Predoi, M.V.,** Generation of multi-modal Lamb waves for the inspection of thin aeronautical structures, U.P.B. Sci. Bull., Series A, Vol. 83, Iss. 4, 12.**2021** pag. 217 – 230, ISSN 1223-7027 (https://www.scientificbulletin.upb.ro/SeriaA_-_Matematica_si_fizica_aplicate.php?page=revistaonline&a=2&arh_an=2021&arh_ser=A&arh_nr=4) (Impact Factor: 0.903 / 2020 : Q4), (WOS: 000731398600020), (IDS Number: XQ2RV).	2	2(0.2+0.903)= 2.206

A2.1	**Co-autor**	**n <=3 P1.3 = 0.2+FI n>=4 P1.4 = 3·(0.2+FI)/n**	
Nr. crt.	**Articol**	n	P1.1, P1.2
1	E. Le Clezio, **M.V. Predoi**, M. Castaings, B. Hosten, M. Rousseau, Numerical predictions and experiments on the free-plate edge mode. **Ultrasonics**, vol. 41 (1), 25-40, **2003**. (ISSN: 0041-624X) (Impact factor 0.78/2003; 1.838/2012; 2.028/2013, 2.327/2016) (Scor Relativ de Influenta: 1.1750 /2010; 1.466/2013) (A.I.S.: 0.637) (doi:10.1016/S0041-624X(02)00391-8), (http://www.sciencedirect.com/science/article/pii/S0041624X02003918) (IDS Number: 695YV) (WOS:000183858700004).	5	3(0.2+0.78)/5= 0.588
2	M. Castaings, C. Bacon, B. Hosten, **M. V. Predoi**, Finite element predictions for the dynamic response of thermo-viscoelastic material structures, **Journal of the Acoustical Society of America**, vol. 115 (3), pg. 1125-1133, **2004**. (Impact factor: 1.555/2013; A.I.S: 0.542/2013) (ISSN: 0001-4966), (Scor Relativ de Influenta: 1.500/2010; 1.339/2013), (http://dx.doi.org/10.1121/1.1639332); (IDS Number: 801DF) (http://asadl.org/jasa/resource/1/jasman/ v115/i3/ p1125_s1?isAuthorized=no) (WOS:000220075900019).	4	3(0.2+1.555)/4 = 1.316
3	L. Moreau, M. Castaings, B. Hosten, **M. V. Predoi**, An orthogonality relation-based technique for post-processing finite element predictions of waves scattering in solid waveguides, **Journal of the Acoustical Society of America**, vol. 120 (2), pg. 611-620, **2006** (ISSN: 0001-4966), (Impact factor: 1.555/2013; A.I.S: 0.542/2013) (Scor Relativ de Influenta: 1.500/2010; 1.339/2013), (http://dx.doi.org/10.1121/1.2216563) (IDS Number : 074TT) (WOS:000239835400006).	4	3(0.2+1.555)/4 = 1.316
4	P. Marical, M. Ech-Cherif El-Kettani, **M.V. Predoi**, Guided waves in elastic plates with Gaussian section variation: Experimental and numerical results, **Ultrasonics**, vol. 47 (1-4), pg. 1–9, **2007**.	3	0.2+1.175 = 1.375

	(ISSN: 0041-624X), (Scor Relativ de Influenta: 1.1750 /2010; 1.466/2013) (doi:10.1016/j.ultras.2007.05.004) (IDS Number: 245BW) (Impact factor 1.838/2012; 1.470/5years) (WOS:000251910500001).		
5	T. Belhoussine Drissi, B. Morvan, **M.V. Predoi**, J.-L. Izbicki, P. Pareige, Study of the transmission of ultrasonic guided wave at the junction of two different elastic plates with the presence of a defect , **Key Engineering Materials**, Vol. 482 (**2011**) pg. 21-29, (ISSN: 1013-9826, doi:10.4028/www.scientific.net/KEM.482.21; http://www.scientific.net/ KEM.482.21; Factor de impact 2005: 0.224) (WOS:000302923900003).	5	3(0.2+0.224)/5=0.254
6	K. Zong, H. Franklin, O. Lenoir, **M.V. Predoi**, Effects of periodicity perturbations on the transmission by underwater phononic crystals, **Journal of the Acoustical Society of America**, vol. 132(4), pg. 2834–2841, **2012** (ISSN: 0001-4966), (Impact factor: 1.555/2013) (A.I.S: 0.542/2013) (Scor Relativ de Influenta: 1.500/2010; 1.339/2013), (DOI:/10.1121/1.4744976) (WOS:000309651700008).	4	3(0.2+1.555)/4 = 1.316
7	A. Negrea, **M.V. Predoi**, The elastic contact of a sphere with an elastic half-space, a comparison between analytical and finite elements solutions, **UPB Scientific Bulletin, Series A: Applied Mathematics and Physics**, Vol. 74, Iss. 4, pg. 69-78, **2012** (ISSN 1223-7027) (Impact Factor: 0.28/2013) (A.I.S.:0.067). http://www.scientificbulletin.upb.ro/SeriaA_-_Matematica_si_fizica_aplicate.php?page=revistaonline&a=2&arh_an=2012&arh_ser=A&arh_nr=4 (WOS:000312677000007).	2	0.2+0.28 =0.48
8	N. Harhad, M. Ech-Cherif El-Kettani, H. Djelouah, J.–L. Izbicki, **M. V. Predoi**, Propagation of Lamb waves in an immersed periodically grooved plate: Experimental detection of the scattered converted backward waves, **Ultrasonics**, 54(3), pg. 860-866, **2014**. (ISSN: 0041-624X), DOI: 10.1016/j.ultras.2013.10.012, (Impact Factor: 2.028/2013; 5-Year Impact Factor: 2.054) (A.I.S.: 0.637) (Scor Relativ de Influenta: 1.21693/2011; 1.466/2013) (IDS Number: 281VW) (WOS:000329130100016).	5	3(0.2+2.028)/5=1.337
9	C. L. Popa, S. Antohe, F. Safciuc, M. Ech Cherif El Kettani, D. Leduc, F. Antohe, **M. V. Predoi**, Preliminary structural ultrasonic characterization of hydroxyapatite, **Digest Journal of Nanomaterials and Biostructures**, Vol. 11(3), July-September 2016, pg. 997-1006, 07-09.**2016**, (Impact factor: 0.756/2015), (ISSN: 1842-3582), (A.I.S: 0.139/2015)**.** http://www.chalcogen.ro/997_PopaCL.pdf (WOS:000392707700003)	7	3(0.2+0.756)/7=0.410
10	D. Meier, H. Franklin, **M.V. Predoi**, M. Rousseau, J.L. Izbicki, A rheological model for immersed corrugated elastic plates, **Ultrasonics**, 75, pg. 115–123, 03.**2017,** (ISSN: 0041-624X), (Impact Factor: 2.327/2016) http://dx.doi.org/10.1016/j.ultras.2016.11.018 . (WOS:000392771700014) (IDS Number: EI8QE) (*Premiat UEFISCDI-Q1*).	5	3(0.2+2.327)/5=1.516
11	D. Predoi, C. L. Popa, **M. V. Predoi**, Ultrasound studies on magnetic fluids based on maghemite nanoparticles, **Polymer Engineering & Science**, Vol. 57 (6), pg. 485-490, Special Issue: SI, DOI: 10.1002/pen.24501, 06. **2017**, ISSN: 0032-3888, eISSN: 1548-2634 (Impact Factor: 1.449/2016; 1.719/2015), (A.I.S:0.305/2016; 0.328/2015), (WOS:000403319900003) (IDS Number: EX5YV).	3	0.2+1.449= 1.649
12	C. Gauthier, M. Ech-Cherif El-Kettani, J. Galy, **M. V. Predoi**, D. Leduc, J. –L. Izbicki, Lamb waves characterization of adhesion levels in aluminum/epoxy bi-layers with different cohesive and adhesive properties, **International Journal of Adhesion and Adhesives**, 74, pg.15–20, 04.**2017**, (ISSN: 0143-7496) **(**Impact Factor: 2.221/2016, 1.956/2015) http://dx.doi.org/10.1016/j.ijadhadh.2016.12.002. (WOS:000395598100003) (IDS Number: EM8YR) (*Premiat UEFISCDI – Q2*).	6	3(0.2+2.221)/6=1.211
13	O. Vasile, **M. V. Predoi**, M. Dragomir, A. Tiron, H. Furdui, Vibration Isolation Analysis of Electric Motors for Essential Dynamic Regimes, **Journal of Vibration Engineering & Technologies**, vol. 5 (3), pg. 239-245, 06.**2017**, (ISSN: 2321-3558), (Impact factor: 0.259/2016), (A.I.S:0.038/2016), (WOS:000404371400005), (IDS Number: EZ0DX).	5	3(0.2+0.259)/5=0.275
14	D. Predoi, **M. V. Predoi**, S.L. Iconaru, Mounsif Ech Cherif El Kettani, Damien Leduc, A.M. Prodan, Ultrasonic Measurements on Cyclodextrin/Hydroxyapatite Composites for Potential Water Depollution, **Materials**, Vol. 10(6), Article Number: UNSP 681, https://www.mdpi.com/1996-1944/10/6/681 , 06.**2017**, ISSN: 1996-1944, (Impact factor: 2.654/2016), (Scor Relativ de Influenta: 0.691/2016) (WOS:000404415000115) (IDS Number: EZ0SE). (*Premiat UEFISCDI-Q2*).	6	3(0.2+2.654)/6=1.427

15	M. Ech Cherif El Kettani, D. Leduc, C. Potel, M. Bruneau, L. Foze, **M. V. Predoi**, Effects of the interface roughness in metal-adhesive-metal structure on the propagation of shear horizontal waves, **Journal of the Acoustical Society of America**, vol. 141 (6), pg. 4591–4599, 06.**2017,** (ISSN: 0001-4966), (Impact factor: 1.547/2016) (A.I.S: 0.542/2013) (Scor Relativ de Influenta: 1.500/2010; 1.339/2013), http://dx.doi.org/10.1121/1.4928299 (WOS:000406788000013), (IDS Number: FC4DE). (*Premiat UEFISCDI-Q2*).	6	3(0.2+1.547)/6 = 0.874
16	L. Moreau, C. Lachaud, R. Théry, **M. V. Predoi**, D. Marsan, E. Larose, J. Weiss, M. Montagnat, Monitoring ice thickness and elastic properties from the measurement of leaky guided waves: A laboratory experiment, **Journal of the Acoustical Society of America**, vol. 142 (5**)**, pg. 2873–2880, 12.**2017**, (ISSN: 0001-4966), (Impact factor: 1.547/2016) (A.I.S: 0.542/2013) (Scor Relativ de Influenta: 1.500/2010; 1.339/2013), https://doi.org/10.1121/1.5009933, (WOS:000416832300026 Published: NOV 2017), (IDS Number: FO4RJ), (*Premiat UEFISCDI-Q2*).	8	3(0.2+1.547)/8 = 0.655
17	D. Leduc, M. Ech Cherif El Kettani, L. Attar, **M. V. Predoi**, P. Pareige, Bonding characterization of a three-layer metal-adhesive-metal using shear horizontal modes of close dispersion curves, **Acta Acustica united with Acustica**, vol. 103, pg. 926-931, 11.**2017**, (ISSN:1610-1928, on-line ISSN:1861-9959, (ISSN: 1610-1928), (Impact factor: 1.119/2016), https://doi.org/10.3813/AAA.919121, (WOS:000417126700004), (IDS Number: FO8HR).	5	3(0.2+1.119)/5 = 0.791
18	Predoi, D., Iconaru, S.L., **Predoi, M.V**., Bioceramic layers with antifungal properties, **Coatings**, vol. 8 (8), Article number 276, 08.**2018**, (ISSN: 2079-6412), DOI: https://doi.org/10.3390/coatings8080276, (Impact factor: 2.350/2017) (WOS:000443252300021) (IDS Number: GS1CL) (*Premiat UEFISCDI-Q2*).	3	0.2+2.350 = 2.550
19	Iconaru, S.L., Motelica-Heino, M., Guegan, R., **Predoi M.V**., Prodan, A.M., Predoi, D., Removal of zinc ions using hydroxyapatite and study of ultrasound behavior of aqueous media, **Materials**, Article number 1350, Vol. 11 (8), 03.08. **2018**, (ISSN: 1996-1944), DOI:https://doi.org/10.3390/ma11081350, (Impact factor: 2.467/2017) (WOS:000444112800087), (IDS Number: GT0HH), (*Premiat UEFISCDI-Q2*).	6	3(0.2+2.467)/6 = 1.333
20	Negrila, C.C., **Predoi, M.V.**, Iconaru, S.L., Predoi, D., Development of zinc-doped hydroxyapatite by sol-gel method for medical applications, **Molecules**, Vol. 23(11), Article number 2986, 15.11.**2018**, (ISSN: 1420-3049), DOI: https://doi.org/10.3390/molecules23112986, (Impact factor: 3.098/2017) (WOS:000451641900258), (IDS Number: HC2OO) (*Premiat UEFISCDI-Q1*).	4	3(0.2+3.098)/4 = 2.474
21	Predoi, D., Iconaru, S.L., **Predoi M.V**., Buton, N., Motelica-Heino, M., Zinc Doped Hydroxyapatite Thin Films Prepared by Sol–Gel Spin Coating Procedure, **Coatings**, vol. 9 (3), Article number 156, 02.**2019**, (ISSN: 2079-6412), DOI: ; https://doi.org/10.3390/coatings9030156 , (Impact factor: 2.330/2018), (WOS: 000464279500001) (IDS Number: HT0UG). (*Premiat UEFISCDI-Q2*).	5	3(0.2+2.330)/5 = 1.518
22	Predoi, D., Iconaru, S.L., **Predoi M.V**., Motelica-Heino, M., Gueran, R., Buton, N., Evaluation of Antibacterial Activity of Zinc-Doped Hydroxyapatite Colloids and Dispersion Stability Using Ultrasounds, **Nanomaterials** vol 9 (4), Article number 515, 04.**2019**, (ISSN: 2079-4991), DOI: https://doi.org/10.3390/nano9040515, (Impact factor: 4.034/2018) (WOS: 000467768800031), (IDS Number: HX9ZS) (*Premiat UEFISCDI-Q1*).	6	3(0.2+4.034)/5 =2.540
23	Predoi, D., Iconaru, S.L., **Predoi M.V**., Dextran-Coated Zinc-Doped Hydroxyapatite for Biomedical Applications, **Polymers,** 05.**2019**, vol. 11(5), Article number 886; (ISSN 2073-4360), DOI: https://doi.org/10.3390/polym11050886, (Impact factor: 3.164/2018), (WOS: 000480531700141), (IDS Number: IQ1SX). (*Premiat UEFISCDI-Q1*).	3	0.2+3.164= 3.364
24	Predoi, D., Iconaru, S.L., **Predoi, M.V.**, Stan, G.E., Buton, N., Synthesis, characterization, and antimicrobial activity of magnesium-doped hydroxyapatite suspensions, **Nanomaterials**, vol 9 (9), Article number 1295, 9.**2019**, (ISSN: 2079-4991), DOI: https://doi.org/10.3390/nano9091295, (Impact factor: 4.034/2018), (WOS:000489101900112), (IDS: JC2IY). (*Premiat UEFISCDI-Q1*).	5	3(0.2+4.034)/5 =2.540
25	Pareige, P., **Predoi, M.V.**, Attar, L., El-Kettani, M.E.-C., Leduc, D., Analysis of shear waves in bonded layers using springs model, **Romanian Journal of Acoustics and Vibration**, 16 (1), pg. 32-38, **2019**, (ISSN: 15847284), https://doi.org/10.3390/nano9091295, (WOS:000502625500004), (IDS: JV8QO).	5	3(0.2+0)/5 = 0.12

26	Predoi, D., Iconaru, S.L., **Predoi, M.V.,** Buton,N., Megier, C., Motelica-Heino, M., Biocompatible Layers Obtained from Functionalized Iron Oxide Nanoparticles in Suspension, **Coatings**, vol. 9(12), Article number 773; 11.**2019**, (ISSN: 2079-6412), DOI: https://doi.org/10.3390/coatings9120773 , (Impact factor: 2.330/2018), (WOS:000506682800003), (IDS Number KB7PP). (*Premiat UEFISCDI-Q2*).	6	3(0.2+2.330)/6 = 1.265
27	Stănică, C.M., **Predoi, M.V**., Stroe, I., Study of Rotating Machineries in a Non-Inertial Reference Frame Subjected to Rotations, **Romanian Journal of Acoustics and Vibrations**, Vol 16 (2), pag. 125- 136, **2019**, http://www.rjav.sra.ro/index.php/rjav/article/view/142 , (ISSN 1584-7284), (WOS: 000593692900006), (IDS NumberOX6SW).	3	3·0.2/3 =0.2
28	Prodan, A.M., Iconaru, S.L., **Predoi, M.V.,** Predoi, D., Motelica-Heino, M., Turculet, C.S., Beuran,M., Silver-Doped Hydroxyapatite Thin Layers Obtained by Sol-Gel Spin Coating Procedure, **Coatings**, vol. 10 (1), Article number 14, 01.**2020,** (ISSN: 2079-6412), DOI: https://doi.org/10.3390/coatings10010014), (Impact factor: 2.330/2018), (WOS: 000513694500004), (IDS Number: KL8UU). (*UEFISCDI-Q2*).	7	3(0.2+2.330)/7 = 1.084
29	Iconaru, S.L., **Predoi, M.V.,** Motelica-Heino, M., Predoi, D., Buton, N., Megier, C., Stan, G.E., Dextran-Thyme Magnesium-Doped Hydroxyapatite Composite Antimicrobial Coatings, **Coatings**, Vol. 10 (1), Article Number: 57, 01.**2020** (eISSN: 2079-6412), https://doi.org/10.3390/coatings10010057 , (Impact factor: 2.330/2018), (WOS: 000513694500007), (IDS Number: KL8UU). (*UEFISCDI-Q2*).	7	3(0.2+2.330)/7 = 1.084
30	Gauthier, C, Ech-Cherif El-Kettani, Galy, J., **Predoi, M.V.,** Leduc, D., Structural adhesive bonding characterization using guided Lamb waves and the vertical modes**, International Journal of Adhesion and Adhesives**, Article number 102467, Vol. 98, 04.**2020**, (ISSN: 0143-7496), https://doi.org/10.1016/j.ijadhadh.2019.102467 , (Impact factor 2.501/2018), (WOS: 000518868400001), (IDS Number: KT2TL). (*UEFISCDI- Q2*).	5	3(0.2+2.501)/5 = 1.621
31	Attar, L., Leduc, D., El Kettani, M.E.C., **Predoi, M.V.,** Galy, J., Pareige, P., Detection of the degraded interface in dissymmetrical glued structures using Lamb waves, **NDT & E International**, Article Number: 102213, vol. 111, 04.**2020**, (ISSN: 0963-8695), https://doi.org/10.1016/j.ndteint.2019.102213 , (Impact factor 2.934/2018), (WOS: 000524363700006), (IDS Number: LB0YP). (*UEFISCDI-Q1*).	6	3(0.2+2.934)/6 = 1.567
32	Predoi, D., Iconaru, S.L., **Predoi, M.V.,** Motelica-Heino, M., Buton, N., Megier, C., Obtaining and characterizing thin layers of magnesium doped hydroxyapatite by dip coating procedure, **Coatings**, Vol.10 (6), Article Number: 510, 06.**2020**, (eISSN: 2079-6412), https://www.mdpi.com/2079-6412/10/6/510/htm (Impact Factor: 2.436/2019), (WOS:000553509700001) (IDS Number: MR3SH). (*UEFISCDI-Q2*).	6	3(0.2+2.436)/6 = 1.318
33	Predoi, D., Iconaru, S.L., **Predoi, M.V.,** Groza, A. et al. , Development of Cerium-Doped Hydroxyapatite Coatings with Antimicrobial Properties for Biomedical Applications, **Coatings**, Vol.10 (6), Article Number: 516, 06.**2020**, (eISSN: 2079-6412), https://www.mdpi.com/2079-6412/10/6/516 , (Impact Factor: 2.436 / 2019), (WOS:000551136600001) (IDS Number: MN9CA). (*UEFISCDI Q2*).	12	3(0.2+2.436)/12 = 0.659
34	Predoi, D., Iconaru, S.L., **Predoi, M.V.,** Motelica-Heino, M., Removal and oxidation of As(III) from water using iron oxide coated CTAB as adsorbent, **Polymers**, Vol. 12(8), Article Number: 1687, 08.**2020**, (eISSN: 2073-4360), https://www.mdpi.com/2073-4360/12/8/1687/htm (Impact Factor: 3.426 / 2019), (WOS:000567300600001), (IDS Number: NL3DN). (*UEFISCDI Q1*).	4	3(0.2+3.426)/4 = 2.720
35	Predoi, D., Iconaru, S.L., **Predoi, M.V.,** Fabrication of Silver- and Zinc-Doped Hydroxyapatite Coatings for Enhancing Antimicrobial Effect, **Coatings**, Vol. 10 (9), Article Number: 905, 09.**2020,** (eISSN: 2079-6412), https://www.mdpi.com/2079-6412/10/9/905 (Impact Factor: 2.881 / 2020), (WOS:000580808500001), (IDS Number: OE8YG) (*UEFISCDI Q2*).	3	0.2+2.881 = 3.081
36	Ciobanu, S.C., Iconaru, S.L., Predoi, D, Prodan, A.M., **Predoi, M.V.**, Physico-Chemical Properties and In Vitro Antifungal Evaluation of Samarium Doped Hydroxyapatite Coatings, **Coatings**, Vol. 10 (9), Article Number: 827, 09.**2020,** (eISSN: 2079-6412), https://www.mdpi.com/2079-6412/10/9/827 (Impact Factor: 2.881 / 2020), (WOS: 000579953100001), (IDS NumberOD6HR) (*UEFISCDI Q2*).	5	3(0.2+2.881)/5 = 1.849
37	Iconaru, S.L., **Predoi, M.V.**, Chapon, P., Gaiaschi, S., Rokosz, K., Raaen, S., Motelica-Heino, M., Predoi, D, Investigation of Spin Coating Cerium-Doped Hydroxyapatite Thin Films with Antifungal Properties, **Coatings**, Vol. 11 (4), Article Number: 464, 04.**2021,** (eISSN: 2079-6412),	7	3(0.2+2.881)/7 = 1.320

	https://www.mdpi.com/2079-6412/11/4/464 (Impact Factor: 2.881 / 2020), (WOS: 000642933400001) (IDS NumberRR2KH) (*UEFISCDI Q2*).		
38	Iconaru, S.L., Ciobanu, C.S., Predoi, D., Motelica-Heino, M., Negrila, C.C., Badea, M.L., **Predoi, M.V.**, Chifiriuc, C.M., Popa, M., Nitrogen and Bromide Co-Doped Hydroxyapatite Thin Films with Antimicrobial Properties, **Coatings**, Vol. 11 (2), Article Number: 1505, 12.**2021,** (eISSN: 2079-6412), https://www.mdpi.com/2079-6412/11/12/1505 , (Impact Factor: 2.881 / 2020), (WOS:000735963000001), (IDS NumberXW9XS) (*UEFISCDI Q2*)	9	3(0.2+2.881)/9 = 1.027
39	Ciobanu, C.S., Predoi, D., Chapon, P., **Predoi, M.V.,** Iconaru, S.L., Fabrication and Physico-Chemical Properties of Antifungal Samarium Doped Hydroxyapatite Thin Films, **Coatings**, Vol. 11 (12), Article Number: 1466, 12.**2021**, (eISSN: 2079-6412), https://www.mdpi.com/2079-6412/11/12/1466 , (Impact Factor: 2.881 / 2020), (WOS: 000735959800001), (IDS NumberXW9WM), (*UEFISCDI Q2*).	5	3(0.2+2.881)/5 = 1.849
40	Ciobanu, C.S., **Predoi, M.V.**, N. Buton, C. Megier, S.L. Iconaru, D. Predoi, Physicochemical Characterization of Europium-Doped Hydroxyapatite Thin Films with Antifungal Activity, **Coatings**, Vol.12 (3), Article Number: 306, 03.**2022**, (eISSN: 2079-6412), https://www.mdpi.com/2079-6412/12/3/306 , (Impact Factor: 2.881 / 2020), (WOS:000735959800001) (IDS Number: XW9WM). (*UEFISCDI Q2*)	6	3(0.2+2.881)/6 = 1.541

A2.2 Articole și publicații științifice BDI

Îndeplinire criterii: N3=N31+N3.2= 23 (min.10) N3.1=10 (min.5)

A2.2	**Autor corespondent / prim autor**	**N3.1 = număr**	
Nr. crt.	**Articol**		N3.1
1	**M.V. Predoi**, C.C. Petre, O. Vasile, A. Craifaleanu, M. Boiangiu, S. Marinescu, *Tubewave - Interactive software dedicated to guided waves in tubes*, Romanian Journal of Acoustics and Vibrations, Vol XI (2), pag. 94-98, **2014**, ISSN 1584-7284, (Indexare: WOS-fără I.F., IndexCopernicus, SCOPUS, Elsevier)		1
2	**M.V. Predoi**, H. Franklin, O. Lenoir, K. Zong, *Parameters Influencing the Focalization Produced by a Graded Phononic Crystal*, Romanian Journal of Acoustics and Vibrations, Vol. XI(1), pag. 19-24, **2014**, ISSN 1584-7284, (Indexare: WOS-fără I.F., IndexCopernicus, SCOPUS, Elsevier)		1
3	**M.V. Predoi**, O. Vasile, C.C. Petre, *Experimental analysis on the influence of supports in performing pipes inspection using longitudinal guided waves*, Romanian Journal of Acoustics and Vibrations, Vol. X(1), pag. 25-28, **2013**, ISSN 1584-7284, (Indexare: IndexCopernicus, SCOPUS, Elsevier)		1
4	**M.V. Predoi**, O. Vasile, C.C. Petre, *Torsional elastic waves in tubes. Improved dispersion curves*, Romanian Journal of Acoustics and Vibrations, Vol. IX (1), pag. 9-14, ISSN 1584-7284, 2012. (Indexare: IndexCopernicus, SCOPUS, Elsevier)		1
5	**M.V. Predoi**, A. Negrea, *Ultrasonic guided waves sensitivity to flaws near plate edge*, UPB Scientific Bulletin, Series D, nr. **72**(2), pag. 17-22, ISSN 1454-2358, 2010. (Indexare: SCOPUS, INSPEC, METADEX, Engineering Village, Cambridge Scientific Abstracts, COMPENDEX)		1
6	**M.V. Predoi**, *Finite elements simulations of noise damping in a muffler*, Romanian Journal of Acoustics and Vibrations, vol. VI (2), pag. 63-66, ISSN 1584-7284, 2009. (Indexare: IndexCopernicus, ProQuest, Zentralblatt MATH)		1
7	**M. V. Predoi**, *Properties of non-propagating guided waves in plates*, Romanian Journal of Acoustics and Vibrations, 1 (1), pag. 61-70, ISSN 1584-7284, 2004. (Indexare: IndexCopernicus, ProQuest, Zentralblatt MATH)		1
8	**M. V. Predoi**, *Unele aspecte privind coarda vibrantă*, Buletinul Universităţii „Petrol – Gaze", vol. LV, Seria Tehnică, Nr.4, pg. 103 - 106, ISSN 1224-8495, 2003. (Indexare: EBSCOhost)		1
9	**M.V. Predoi**, N. Enescu, V. Ceauşu, C. Ion, A. Motomancea, *Un model mecanic privind dinamica firelor elastice*, Buletinul Universităţii „Petrol – Gaze", vol. LII, Seria Tehnică, Nr.2, pg. 63-66, ISSN 1224-8495, 2000. (Indexare: EBSCOhost)		1
10	**M.V. Predoi**, A. Motomancea, Considérations concérnant la detérmination du paramètre de la courbe funiculaire, Scientific Bulletin, University „Politechnica" of Bucarest , Series D: Mechanical Engineering, vol.61, nr.3-4, pg. 21-28, 1999, Indexare „ENGINEERING VILLAGE" si „COMPENDEX"		1
		Total:	10

A2.2	**Co-autor**	**N3.2 = număr**	
Nr. crt.	**Articol**		N3.2
1	Savaidis, G; Malikoutsakis, M; Jagenbrein, A; Savaidis, A; Soare, M; **Predoi, M.V**; Soare, A; Diba, I.C, *Structural integrity and health monitoring of road and railway tanks based on acoustic emission*, SDHM Structural Durability and Health Monitoring, 9(2), 129-154, 2013. (Indexare SCOPUS, Engineering Index, INSPEC Databases, Mechanics, Science Navigator) (ISSN: 1930-2983 (printed), ISSN: 1930-2991 - online)		1
2	F. TIPHAINE, **M.V. Predoi**, A model of dynamic vibrations absorber for a helicopter, U.P.B. Sci. Bull., Series D, Vol. 83, Iss. 4, 2021 pag. 3-14, ISSN 1454-2358, (Indexare: IndexCopernicus, SCOPUS, Elsevier)		1
3	C.M., Stănică, **M.V**., **Predoi,** V., Silivestru, I., Stroe, The complete Timoshenko form of torque influence on rotors lateral vibrations, UPB Scientific Bulletin, Series D: Mechanical Engineering, vol. 80(1), pag. 43-54, **2018**, ISSN:1454-2358 , (Indexare: IndexCopernicus, SCOPUS, Elsevier)		1
4	A. Negrea, **M. V. Predoi**, *Some considerations on elastic waves propagating in anisotropic solids*, Romanian Journal of Acoustics and Vibrations, vol. IV (2), pag. 63-70, ISSN 1584-7284, 2007. (Indexare: IndexCopernicus, ProQuest, Zentralblatt MATH)		1
5	V. Ceauşu, **M. V. Predoi**, C. Ion, *Consideraţii asupra vibraţiilor unui pendul*, Buletinul Universităţii „Petrol – Gaze", vol. LV, Seria Tehnică, Nr.4, pg. 47 - 50, ISSN 1224-8495, 2003. (Indexare: EBSCOhost)		1
6	S. Staicu, **M.V. Predoi**, *Modèle théorique en mécanique des robots*, **Revue Roumaine des Sciences Techniques, Mécanique Appliquée**, 45 (4-6), 375-384, 2000. (Indexare: IndexCopernicus)		1
7	St. Staicu, **M.V. Predoi**, Model teoretic în dinamica roboţilor, Buletinul Universităţii „Petrol – Gaze", vol. LII, Seria Tehnică, Nr.2, pg. 53-56, ISSN 1224-8495, 2000. (Indexare: EBSCOhost)		1
8	A. Motomancea, A. Negrea, **M.V. Predoi**, Extensie a teoriei tridimensionale a rezistenţei materialelor asupra plăcilor, Buletinul Universităţii „Petrol – Gaze", vol. LII, Seria Tehnică, Nr.2, pg. 175 – 178, ISSN 1224-8495, 2000. (Indexare: EBSCOhost)		1
9	M. Bugaru, N. Enescu, **M.V. Predoi,** Experimental researches concerning the acoustic pressure distribution generated by a circular membrane. Buletinul Universităţii Politehnica din Bucureşti, seria D, vol.60, nr. 3-4, pg. 293-299, 1998, Indexare „ENGINEERING VILLAGE" si „COMPENDEX"		1
10	V. Ceauşu, F. Ceauşu, **M.V. Predoi**, A Vibration Study for a Beam of Cross-Section Varying in Steps, Bul. Inst. Politehnic Bucureşti , tomul LIV, nr.1-2, pg. 87-96, 1992, Indexare „ENGINEERING VILLAGE" si „COMPENDEX		1
11	V. Ceauşu, **M.V. Predoi**, Modal Analysis Using Matrix Condensation Procedures, Scientific Bulletin, Polytechnic Inst. of Bucharest, Mechanical Engeneering, vol. 53, Number 1-2, pg. 57-62, 1991. Indexare „ENGINEERING VILLAGE" si „COMPENDEX.		1
12	St. Staicu, F.P.Simion, M.-A.Staicu, **M.V.Predoi**, Considérations sur le caractère tensoriel des moments d'inertie, Scientific Bulletin, Polytechnic Instit. of Bucarest , Mechanical Engineering, vol.53, nr. 1-2, pg. 69-72, 1991. Indexare „ENGINEERING VILLAGE" , „COMPENDEX"si „INSPEC"		1
13	I. Roşca, F.P. Simion, **M.V.Predoi**, A comparison of displacement computation methods for a cylindrical tube placed in an axisymmetrical temperature distribution. Revue Roumaine des Sciences Techniques. Mécanique appliquée, tome 35, nr.2, Ed. Acad. Române, pg. 147-150, 1990. Indexare „ENGINEERING VILLAGE" , „COMPENDEX"si „INSPEC"		1
	Total:		13

A2.3	**Brevete de invenţii indexate**	**P2.1 = 2.3.(0.2+2)/4**	
Nr. crt.	**Brevet indexat în Web of Science – Derwent Innovation**	n	P2.1
1	**M.V. Predoi**, C.C. Petre, A. Craifăleanu, M. Boiangiu, O. Vasile, "Metoda de Adaptare a Traductoarelor Ultrasonore pentru Inspecția Conductelor", no. OSIM: A/00646/15.09.2016, România. Indexare in Web of Science – Derwent Innovation: Method for adapting ultrasonic transducers for pipe inspection, has inspecting pipe by means of wedge which allows mono-element longitudinal-wave transducer Patent Number(s): RO132449-A2 Inventor(s): PREDOI M V, PETRE C C, CRAIFALEANU A, BOIANGIU M, VASILE O Patent Assignee Name(s) and Code(s): UNIV POLITEHNICA DIN BUCURESTI (UYPO-Non-standard) Derwent Primary Accession Number: 2018-247014 Abstract: NOVELTY - The invention relates to a method for both external and internal inspection of pipes, using ultrasounds. According to the invention, the method consists in inspecting a pipe (3) by means of a wedge (2) which allows a mono-element longitudinal-wave transducer (1) to be adapted to the cylindrical surface of the pipe (3), to ensure synchronism of ultrasonic waves front throughout the inspected surface, the wedge (2) consisting of a set of plates (4 and 5) made of a material transparent to ultrasounds, such as metal, the thickness and length of which are calculated for each ultrasound transducer (1) and each pipe (3) geometry. International Patent Classification: G01N-029/07 Derwent Class Code(s): S03 (Scientific Instrumentation) Derwent Manual Code(s): S03-E08A *Nota: Până la această dată brevetul nu este eliberat/respins de OSIM. Nu a fost trecut la punctajul total.*	5	3.3

A2.5 Monografii / cărţi de specialitate [2], format tiparit / electronic (min. 100 pag.) Coordonator /prim autor

Îndeplinire criterii: N4=N4.1+N4.2+N4.3+N4.4 = 4 (min.2) N4.3=1 (min.1)

A2.5	**Coordonator / prim autor**	**N4.3 = număr**	
Nr. crt.	**Carte**	pag.	N4.3
1	M.V. Predoi, C.C. Petre, *Controle par ultrasons des plaques soudees*, Ed. Printech, ISBN-973-652-894-4, Bucureşti, 150 pag., 2003. La Biblioteca Națională: https://aleph.bibnat.ro/F/FTQU33LX8M5NELX8B81UXRXJ2628LMXJTVUL2EEEKPPBDIMNVN-70033?func=full-set-set&set_number=049366&set_entry=000042&format=999	150	1
A2.5	**Co-autor**	**N4.4 = număr**	
Nr. crt.	**Carte**	pag.	N4.4
1	C.C. Petre, M.V. Predoi, Unde ultrasonore in tuburi, Ed. Matrix Rom, ISBN- 978-606-25-0281-2, Bucureşti, 140 pag., 2016. La Biblioteca Națională: https://aleph.bibnat.ro/F/FTQU33LX8M5NELX8B81UXRXJ2628LMXJTVUL2EEEKPPBDIMNVN-00646?func=full-set-set&set_number=049366&set_entry=000068&format=999	140	1
2	C.C. Petre, M.V. Predoi, *Controle par ultrasons des tubes soudes*, Ed. Printech, ISBN- 973-652-895-2, Bucureşti, 165 pag., 2003. La Biblioteca Națională: https://aleph.bibnat.ro/F/FTQU33LX8M5NELX8B81UXRXJ2628LMXJTVUL2EEEKPPBDIMNVN-72111?func=full-set-set&set_number=049366&set_entry=000043&format=999	165	1
3	M. Bugaru, M.V.Predoi, *Vibraţiile plăcilor plane rectangulare subţiri excitate parametric*. Ed. Bren, ISBN 973-9493-28-9, Bucureşti, 143 pag.,1999. La Biblioteca Națională: https://aleph.bibnat.ro/F/FTQU33LX8M5NELX8B81UXRXJ2628LMXJTVUL2EEEKPPBDIMNVN-01358?func=full-set-set&set_number=049366&set_entry=000090&format=999	143	1
	Total:		3

Recunoasterea si impactul activitatii - RIA (A3)

Îndeplinire criterii: S=S1+S2= 345.81 (min.50) ; N5 = 106 (min.10); C= 1020.9 (min. 25)

A3.1 Atragere resurse financiare prin granturi / proiecte / contracte terti

Îndeplinire criterii: S1+S2 = 345.81 (min.50)

S1	**Director sau responsabil partener la grant / proiect câștigat prin competiție națională sau internațională**		**S1=suma echivalenta in mii Euro**
Nr. crt.	**Proiect/grant**		S1
1	*Sistem ultrasonor avansat pentru monitorizarea integrității structurale a conductelor*, PN-II-ID-PCE-2011-3-0512 (UPB: IS 25-11-01: 65000 lei) (UPB: IS 25-12-01: 663500 lei) (UPB: IS 25-13-01: 189626.16 lei) (UPB: IS 25-14-01: 70312 lei) (UPB: IS 25-15-01: 97018 lei) (UPB: IS 25-16-01: 203668.84 lei) Valoare globală: 1290000 lei.		287.26
2	*Cercetări avansate pentru caracterizarea ultrasonoră a microdefectelor în structuri cu geometrie complexă, grant CNCSIS nr. GR 18/29.05.2007, tema 9, cod 123. Valoare globală 163000 RON*		40.53
3	*Dezvoltarea de noi concepte, tehnici si abilitati bazate pe metode sinergice de evaluare neinvaziva a materialelor noi si avansate, a materialelor micro si nanostructurate; estimari de ciclu de viata a structurilor realizate cu acestea* - SINERMAT, grant CEEX (http://www.sinermat.info/), beneficiar CALIST, Nr. U.P.B 32.06.01. Valoarea globală 50000 RON.		14.27
4	*Cercetari avansate privind controlul propagării zgomotelor prin structuri formate din placi. Testarea numerica si validarea experimentala a modelării vibroacusticii plăcilor 2002:* Contract nr. 33784 /23.07.2002 cod CNCSIS 113 Tema 99. Valoarea globală *4600 RON*		1.14
5	*Cercetari avansate privind controlul propagării zgomotelor prin structuri formate din placi. Modele si simulari numerice pentru vibroacustica placilor*, Contract nr. 34967/2001 cod CNCSIS 575, Nr.UPB: 31.01.18/2001. Tema 60. Valoarea globală *4240 RON*		1.50
6	*Cercetari privind modelarea optimala a emisiei acustice a plăcilor plane*. Contract nr.6111/2000 cu ANSTI. Nr.UPB: 31-20-08. Tema: B2. Valoarea globală 2500 RON.		1.11
	Total:		345.81

A3.2 Prezentarea / Diseminarea rezultatelor: prezenta la manifestări științifice in calitate de autor/co-autor de lucrări, profesor invitat

Îndeplinire criterii: N5 = 106 (min. 10)

	Congrese/conferințe/workshopuri internaționale, profesor invitat la universități / institute din străinătate		**N5**
Nr. crt.	**Lucrare**		**n**
1	A. Toma, C. Rugina, M. Soare, M.V. Predoi, T. Badea, R. Carlanescu, I. Daniel, *Determination of Elastic Properties in Metal Parts Made via Additive Manufacturing Using Ultrasonic Measurements*, 12th International On-Line Conference for Promoting the Application of Mathematics in Technical and Natural Sciences (AMiTaNS), AIP Conference Proceedings, vol. 2302, Article Number: 060016, DOI10.1063/5.0033730, ISSN0094-243X / **2020**		1
2	M. V. Predoi, C. C. Petre, M. Ech Cherif El Kettani, D. Leduc, *Parametric study of guided waves dispersion curves for composite plates*, International Conference on Structural Analysis of Advanced Materials: ICSAAM 2017, AIP Conference Proceedings nr.1932, 030035 (2018); doi: 10.1063/1.5024185, (online: https://doi.org/10.1063/1.5024185), Published by the American Institute of Physics, ISBN: 978-0-7354-1624-6, 21/02/**2018**.		1
3	D. Predoi, M. V. Predoi, M. Ech Cherif El Kettani, D. Leduc, S. L. Iconaru, C. S. Ciobanu, N. Buton, C., C. Petre, A. M. Prodan, *Physico-chemical characteristics and antimicrobial studies of silver doped hydroxyapatite*, International Conference on Structural Analysis of Advanced Materials: ICSAAM 2017, AIP Conference Proceedings nr.1932, 030034 (2018); doi: 10.1063/1.5024184, (online		1

	https://doi.org/10.1063/1.5024184), Published by the American Institute of Physics, ISBN: 978-0-7354-1624-6, 21/02/ **2018.**		
4	C. L. Popa, D. Predoi, M. Soare, C. C. Petre, M.V. Predoi, *Preliminary Ultrasound Studies on Magnetic Fluids Based on Iron Oxide Nanoparticles*, 8th International Conference on Times of Polymers and Composites -TOP 2016, 19-23 iunie, 2016, Ischia – Italia. (The American Institute of Physics (AIP) will publish the Conference Proceedings. Indexed by Scoopus, ISI Web of Knowledge, SciFinder etc) (http://www.topconference.it/publication.php) Book Series: AIP Conference Proceedings,Volume: 1736, Article Number: UNSP 020140, ISBN:978-0-7354-1390-0, ISSN: 0094-243X, DOI: 10.1063/1.4949715, published: **2016**, WOS:000387931100140.		1
5	M.V. Predoi, C.C. Petre, *Multimode wave propagation in immersed pipes*, MATERIALS TODAY-PROCEEDINGS Vol. 3, Issue: 4, pag. 1135-1138, ISSN: 2214-7853, DOI: 10.1016/j.matpr.2016.03.062 , Published: **2016**. "32nd DANUBIA-ADRIA SYMPOSIUM on Advances in Experimental Mechanics (DAS)", Univ Zilina, Zilina, SLOVAKIA, SEP 22-25, **2015** WOS:000373068900044, IDS Number: DH8TF.		1
6	C. Gauthier, M. Ech Cherif El Kettani, J. Galy, D. Leduc, M.V. Predoi, J. -L. Izbicki, Discrimination of Different Levels of Adhesion in a Bi-Layer Aluminum/Epoxy Structure Using Lamb Waves, 19th World Conference on Non-Destructive Testing, 13-17 June 2016 in Munich, Germany (WCNDT 2016), **2016** https://www.ndt.net/search/docs.php3?id=19445		1
7	D. Meier, H. Franklin, J-L. Izbicki, M.V. Predoi, M. Rousseau, *Guided waves attenuation in water immersed corrugated plates*, Proceedings of the 2015 ICU International Congress on Ultrasonics, (2015 ICU International Congress on Ultrasonics, Metz, France, mai 11-14, 2015), Physics Procedia, vol. 70 (2015), pag: 110-113, ISSN: 1875-3892 , DOI: 10.1016/j.phpro.2015.08.054, published: **2015**, WOS:000380533000027 , IDS Number: BF3ER.		1
8	M.V. Predoi, C.C. Petre, *Thin wall pipe ultrasonic inspection through paint coating*, 2015 ICU International Congress on Ultrasonics, Metz, France, mai 11-14, 2015, (978-0-692-43231-0). Physics Procedia, vol. 70 (2015), pag: 287 – 291, Elsevier (ISSN 1875-3892) (http://dx.doi.org/10.1016/j.phpro.2015.08.156) published: **2015**, WOS:000380533000069, IDS Number: BF3ER		1
9	M. V. Predoi, C. C. Petre, M. Boiangiu, A. Crafăleanu, O. Vasile, Determination of modal attenuation due to external and internal fluids in pipes, MODERN TECHNOLOGIES IN INDUSTRIAL ENGINEERING (MODTECH2015) Book Series: IOP Conference Series-Materials Science and Engineering, Vol. 95, Article Number: 012040, ISSN: 1757-8981, DOI: 10.1088/1757-899X/95/1/012040, Published: 2015 "ModTech International Conference, Modern Technologies in Industrial Engineering", June 17-20, **2015**, Mamaia, Romania, (ISSN 2286-4369). WOS:000365128900040. IDS Number: BD9QX.		1
10	M.V. Predoi, C.C. Petre, Guided waves scattering by discontinuities near pipe bends, Journal of the Acoustical Society of America, vol. 133(5), pp. 3328 (05/**2013**) (ISSN: 0001-4966); Full text in Proceedings of Meetings on Acoustics (POMA 29, 045031 pg.1-9 - online open-access journal published by the Acoustical Society of America). http://dx.doi.org/10.1121/1.4805575 Proc. Mtgs. Acoust. 19, 045031 (**2013**); http://dx.doi.org/10.1121/1.4799372		1
11	M.V. Predoi, C. C. Petre, J-L. Izbicki, *Fluid Structure Coupling in Guided Modes of Thin Pipes*, 2012 IEEE International Ultrasonics Symposium (IUS), Dresden, Germany October 7-10, **2012**. Ultrasonics Symposium (IUS), **2012** IEEE International, pp. 771-774, ISSN: 1948-5719, Print ISBN: 978-1-4673-4561-3, INSPEC Accession number: 13673655, DOI: 10.1109/ULTSYM.2012.0192 http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6562228&refinements%3D4278578991%2C4278571057%26sortType%3Dasc_p_Sequence%26filter%3DAND%28p_IS_Number%3A6561884%29		1
12	N. Harhad, M. Ech Cherif El Kettani, H. Djelouah, J.-L. Izbicki, M.V. Predoi, *Propagation of Lamb Waves on an Immersed Plate Containing a Periodic Grating: Experimental study*. 2012 IEEE International Ultrasonics Symposium (IUS), Dresden, Germany October 7-10, **2012**. Ultrasonics Symposium (IUS), 2012 IEEE International, pp. 1762-1765, ISSN: 1948-5719, Print ISBN: 978-1-4673-4561-3, INSPEC Accession number: 13678934, DOI: 10.1109/ULTSYM.2012.0442; http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6562435&refinements%3D4278578991%2C4278571057%26sortType%3Dasc_p_Sequence%26filter%3DAND%28p_IS_Number%3A6561884%29;		1

13	M.V. Predoi, M. Ech Cherif El Kettani, Z. Hamitouche, C.C. Petre, *Guided waves in plates with linear variation of thickness*, International Conference Acoustics' 08 Paris, ASA EAA SFA, June 29 - July 4, 2008,pg. 5291-5295 (ISBN 978-2-9521105-4-9 - EAN 9782952110549). (http://dx.doi.org/10.1121/1.2935622)		1
14	P. Marical, M. Ech-Cherif El-Kettani, Z. Hamitouche, M. V. Predoi, *Trapped wave in plane waveguides including Gaussian varying section domain*, (abstract), International Conference Acoustics' 08 Paris, ASA EAA SFA, June 29 - July 4, 2008, (ISBN 978-2-9521105-4-9 - EAN 9782952110549). (http://dx.doi.org/10.1121/1.2935964)		1
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16	P. Marical, M. Ech-Cherif El-Kettani, M. V. Predoi, *On the Propagation in a Waveguide with Gaussian Section Variation: Inverse Problem to Determine the Hiding Waveguide Profile and Separation of Converted Modes Contributions in the Case of Multi-Incident Modes, Experimental and Numerical Studies*, IEEE Ultrasonics symposium, New York, NY, USA, (2007), pg. 2299 – 2302, 28-31 Oct. **2007**, (http://dx.doi.org/10.1109/ULTSYM.2007.578), INSPEC Accession Number: 9854797, ISSN: 1051-0117.		1
17	P. Marical, M. Ech-Cherif El-Kettani, M. V. Predoi, *Experimental and numerical studies on Lamb waves conversion in a waveguide with Gaussian section variation*, IEEE Ultrasonics symposium, Vancouver, CANADA, **2006**, pg. 1185-1188, (ISI, INSPEC XX2007-00563) (http://dx.doi.org/10.1109/ULTSYM.2006.304),		1
18	N. Enescu, M. Bugaru, M.V. Predoi, Acoustic emission model for a thin circular plate with large deflections. Forum Acusticum 1999, TU Berlin, pg. S468, 14-19 martie 1999. (http://dx.doi.org/10.1121/1.426588)		1
19	M.V. Predoi, C.C Petre, M. Rousseau, M de Billy, Ultrasonic inspection of defects in welded plates and tubes, 1997 IEEE International Ultrasonics Symposium, OCT 05-08, Toronto, Canada, pg. 845-848, 5-8 oct. 1997. (ISBN:0-7803-4153-8) (WOS:000072927100177) (IDS Number: BK64)		1
20	Attar, L., Leduc, D., El Kettani, M.E.C., Pareige, P., Predoi, M.V., Galy, J., Evaluation of the bonding quality in a metal composite structure using Lamb waves, Proceedings of the 26th International Congress on Sound and Vibration, ICSV 2019201926th International Congress on Sound and Vibration, ICSV 2019; Montreal; Canada; 7-11 iulie **2019**, Code 151920.		1
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22	M. V. Predoi, C. C. Petre, Ondes guidées dans l'inspection des coudes des tubes, Actes du 13e Congrès Français d'Acoustique joint avec le colloque Vibrations, SHocks and NOise, pp. 2195-2199 (on USB-stick), 11- 15 aprilie **2016**, Le Mans, France, published in http://sfa.asso.fr/fr/liens/congres-francais-d-acoustique.		1
23	D. Meier, H. Franklin, M.V. Predoi, M. Rousseau, J.-L. Izbicki, Modèle de Jones généralisé pour l'étude d'une interface rugueuse, Actes du 13e Congrès Français d'Acoustique joint avec le colloque VIbrations, SHocks and NOise, pp. 89-94 (on USB-stick), 11- 15 aprilie **2016**, Le Mans, France, published in http://sfa.asso.fr/fr/liens/congres-francais-d-acoustique.		1
24	C. Gauthier, D. Leduc, M. Ech-Cherif El-Kettani, J. Galy, M. Predoi, J.-L. Izbicki, Etude du Couplage des Modes dans une Structure Bicouche Aluminium/Epoxy, pp. 2743-2748 (on USB-stick), Actes du 13e Congrès Français d'Acoustique joint avec le colloque VIbrations, SHocks and NOise, pp. 89-94 (on USB-stick), 11- 15 aprilie **2016**, Le Mans, France, published in http://sfa.asso.fr/fr/liens/congres-francais-d-acoustique.		1
25	M. V. Predoi, M. Soare, O. Vasile, M. Boiangiu, Ultrasonic guided waves inspection of pipes from one end to the first bent, ECCOMAS Congress 2016, VII European Congress on Computational Methods in Applied Sciences and Engineering, M. Papadrakakis, V. Papadopoulos, G. Stefanou, V. Plevris (eds.), Crete Island, Greece, 5–10 iunie **2016**. Pag. 6688-6698 (Id: E11939, will be indexed in SCOPUS: https://www.eccomas2016.org/content/submit-your-contributions)		1

26	C. C. Petre, M. V. Predoi, M. Boiangiu, M. Soare, Ultrasonic inspection of pipes using adapted wedges, 31th Danubia-Adria Symposium on Advances in Experimental Mechanics, Kempten University, Germany, 24-28 sept. **2014**, (ISBN 978-3-00-046740-0) (Keynote lecture)		1
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28	M.V. Predoi, C.C. Petre, *Finite elements model of evanescent longitudinal waves propagation in fluid filled pipes*, The 5th International Conference on Structural Analysis of Advanced Materials, ICSAAM 2013, Kos, Greece, 23 - 26 September **2013**.		1
29	C. C. Petre, M.V. Predoi, O. Vasile, M. Soare, *Experimental data on evanescent longitudinal waves propagation in fluid filled pipes*, The 5th International Conference on Structural Analysis of Advanced Materials, ICSAAM 2013, Kos, Greece, 23 - 26 September **2013**.		1
30	M.V. Predoi, C.C. Petre, *Experiments on guided waves propagation in hollow immersed pipes*, pg. 89-90, 30-th DANUBIA-ADRIA Symposium on Advances in Experimental Mechanics, Primošten, Croatia, September 25-28, **2013** (ISBN 978-953-7539-17-7)		1
31	O. Lenoir, K. Zong, H. Franklin, M.V. Predoi, *Transmittivity of 2D graded phononic crystals in thefrequency and time domains*, Acoustics 2012, pp. 3403- 3408, 23-27.04.2012, Nantes, France, Proceedings of the Acoustics 2012 Nantes Conference, **2012**.		1
32	M.V. Predoi, C. C. Petre, *Multipoint generation of guided waves in pipes. Finite elements model*, 29th DANUBIA-ADRIA Symposium On Advances in Experimental Mechanics (DAS2012), Belgrade, Serbia, sept.26-29, **2012**.		1
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34	M.V. Predoi, C.C. Petre, A. Craifăleanu, *Influence of supports on the inspection range of pipes using guided waves. Theoretical and numerical aspects*, International Symposium on Composites & Aircraft Materials (ACMA 2012), May 09-12, Fez, Morocco, **2012**.(Chairman)		1
35	C. C. Petre, M.V. Predoi, O Vasile, *Influence of supports on the inspection range of pipes using guided waves. Experimental aspects*, International Symposium on Composites & Aircraft Materials (ACMA 2012), May 09-12, Fez, Morocco, **2012**. (Chairman)		1
36	C. C. Petre, M.V. Predoi, M. Soare, *Experimental validation of guides waves use in detecting circumferential flaws in pipes*, 28th DANUBIA-ADRIA Symposium on Advances in Experimental Mechanics (DAS2011), Siofok, Hungary, Sept.28-Oct.01, **2011**.		1
37	M.V. Predoi, M. Soare, C. C. *Petre*, *Pipes inspection using longitudinal guided waves based on finite elements simulation*, 28th DANUBIA-ADRIA Symposium on Advances in Experimental Mechanics (DAS2011), Siofok, Hungary, Sept.28-Oct.01, **2011**.		1
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41	M.V. Predoi, D. Predoi, M. Soare, *Experiments and numerical simulation of ultrasound propagation in coated plates*, 10-th International Conference on Recent Advances in Structural Dynamics (RASD 2010), Southampton, United Kingdom, 12-14 July, **2010**		1
42	M.V. Predoi, C. C. Petre, D. Predoi, M. Soare, *Ultrasonic measured parameters of granular media*, 26th Danubia-Adria Symposium on Advances in Experimental Mechanics (DAS2009), Leoben, Austria, 23rd-26th September, **2009**		1
43	C. C. Petre, M.V. Predoi, *Some considerations about ultrasound propagation in metallic spheres with orthopedic applications*, International Conference on Structural Analysis of Advanced Materials (ICSAAM 2009), Tarbes, France, September7-10, **2009**		1

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46	P. Marical, M. Ech-Cherif El-Kettani, M. V. Predoi, *On the propagation in a waveguide with Gaussian section variation. inverse problem to determine the hiding waveguide profile and separation of converted modes contributions in the case of multi-incident modes, experimental and numerical studies.* IEEE Ultrasonics symposium, New-York, US, (**2007**), 2299-2303, (ISI, INSPEC)		1
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A3.3 Citări în publicatii BDI [5] (se exclud autocitările); C=C1+SFI

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	C1=numărul de citări; SFI= suma factorilor de impact al publicațiilor WOS in care apar citările		
Nr. crt.	**Lucrare citată, urmată de citările WOS cu Factor de Impact (*nu sunt trecute citările fără F.I. sau in articole trecute numai in BDI*)**		FI
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4	A novel nonlinear Lamb wave based approach for detection of multiple disbonds in adhesive joints By: Kumar, Sachin; Sunny, Mohammed Rabius INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES Volume: 107 Article Number: 102842 Published: JUN **2021** WOS:000639094400004	1	2.671
5	Detection of disbonds in adhesively bonded aluminum plates using laser-generated shear acoustic waves By: Pyzik, Patrycja; Ziaja-Sujdak, Aleksandra; Spytek, Jakub; et al. PHOTOACOUSTICS Volume: 21 Article Number: 100226 Published: MAR **2021** WOS:000653150000001	1	5.87
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9	Fractional-order modelling of epoxy resin By: Machado, J. A. Tenreiro; Lopes, Antonio M.; de Camposinhos, Rui PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 378 Issue: 2172 Article Number: 20190292 Published: MAY 29 **2020** WOS:000533383600009	1	3.275
10	Wave Frequency Effects on Damage Imaging in Adhesive Joints Using Lamb Waves and RMS By: Wojtczak, Erwin; Rucka, Magdalena MATERIALS Volume: 12 Issue: 11 Article Number: 1842 Published: JUN 1 **2019** WOS:000472638600116	1	3.057
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	Total:	16	47.633
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5	Surface modification of zero-valent iron nanoparticles with beta-cyclodextrin for 4-nitrophenol conversion By:Krawczyk, K ; Waclawek, S; Silvestri, D ; Padil, VVT ; Rezanka, M; Cernik, M; Jaroniec, M, JOURNAL OF COLLOID AND INTERFACE SCIENCE, Vol.586, Page 655-662, DOI10.1016/j.jcis.2020.10.135 Published MAR 15 **2021** (WOS:000606833200008)	1	8.128
6	Characterization of the Physical, Chemical, and Adsorption Properties of Coal-Fly-Ash-Hydroxyapatite Composites By:Soco, E ; Papciak, D; Michel, MM ; Pajak, D ; Domon, A; Kupiec, B, MINERALS, Vol.11(7), Article Number774, DOI10.3390/min11070774 Published JUL **2021** (WOS:000676779700001)	1	2.644

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XIV	L. Moreau, C. Lachaud, R. Théry, M. V. Predoi, D. Marsan, E. Larose, J. Weiss, M. Montagnat, Monitoring ice thickness and elastic properties from the measurement of leaky guided waves: A laboratory experiment, Journal of the Acoustical Society of America, vol. 142 (5), pg. 2873–2880, 12.2017	CI	FI
1	Determination of ice cover thickness using compression standing waves By:Fedin, KV (Fedin, Konstantin, V) [1] , [2] , [3] ; Kolesnikov, YI (Kolesnikov, Yury, I) [1] , [2] ; Ngomayezwe, L (Ngomayezwe, Luckymore) [2] , [4] COLD REGIONS SCIENCE AND TECHNOLOGY Volume198 Article Number 103552 DOI10.1016/j.coldregions.2022.103552 PublishedJUN 2022 (WOS:000795077800004)	1	3.726
2	Review on modeling polar sea-ice acoustics waveguide By:Yin, JW (Yin Jing-Wei) [1] , [2] , [3] ; Ma, DY (Ma Ding-Yi) [1] , [2] , [3] ; Zhang, YX (Zhang Yu-Xiang) [1] , [2] , [3] ; Sheng, XL (Sheng Xue-Li) [1] , [2] , [3] ACTA PHYSICA SINICA Volume71 Issue8 Article Number 084301 DOI10.7498/aps.71.20211950 Published APR 20 2022 (WOS:000796323800015)	1	0.819
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3	Nondestructive evaluation of FRP-reinforced structures bonded joints using acousto-ultrasonic: Towards diagnostic of damage state By:Sarr, CAT ; Chataigner, S; Gaillet, L; Godin, N, CONSTRUCTION AND BUILDING MATERIALS, Vol. 313, Article Number125499 DOI10.1016/j.conbuildmat.2021.125499, PublishedDEC 27 **2021** (WOS:000722684700005)	1	6.141
	Total:	3	9.402

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