

## FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR CNATDCU

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Îndeplinirea standardelor minime naționale conform OMENCS Nr. 6129 / 20.12.2016 [MO, I, 123 / 15.02.2017]	Standarde îndeplinite, conform Comisiei CNATDCU Nr. 3 FIZICĂ.. Anexată: Fișa de calcul și de susținere a îndeplinirii standardelor minime specifice domeniului, în acord cu realizările menționate:	
<b>Condiții minime [Punctaj]</b>	<b>Minim prevăzut</b>	<b>Realizat</b>
1. Activitatea didactică și profesională (A)	2	9.85
2. Activitatea de cercetare		
2.1 Articole științifice originale în extenso, ca autor (I)	4	5.052
2.2 Articole științifice originale ca prim autor sau ca autor corespondent conform mențiunilor de pe articol. Nu se iau în considerare articolele la care autorii sunt menționați în ordine alfabetică iar candidatul este prim autor exclusive datorită numelui acestuia și ordonării alfabetice. (P)	4	9.631
3. Recunoașterea și impactul activității		
3.1 Citări în reviste științifice cu factor de impact care se regăsesc [P1] în In Cite Journal Citation Reports sau în cărți în edituri recunoscute Web of Science. Nu se iau în considerare citările provenind din articole care au ca autor sau coautor candidatul (C)	40	64.434
3.2 Indicele Hirsch (h)	10	10
<b>Punctaj total CNATDCU</b> T= A+P/2+I/2+C/20+h/5	<b>12</b>	<b>22.413</b>

**FIȘA DE CALCUL ȘI DE SUSTINERE A INDEPLINIRII STANDARDELOR  
MINIMALE SPECIFICE DOMENIULUI, ÎN ACORD CU REALIZARILE  
MENTIONATE**

**I. ACTIVITATE DIDACTICĂ ȘI PROFESIONALĂ**

1. 4 Cărți, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale ca autor, note interne, prezentări susținute pentru aprobarea analizelor de date în cadrul colaborărilor mari.

	Autori	Titlu	Editură, An	ISBN	Pag.	$n_i^{ef}$	$A_4 = \frac{A_i}{\sum_i 0.5/n_i^{ef}}$
=1	<b>Emil Petrescu</b> Cristina Cîrtoaje	Radiații ionizante și elemente de dozimetrie	Politehnica Press, 2016	978-606-515-656-2	181	2	0.25
2	<b>Emil Petrescu</b> Cristina Cîrtoaje	Elemente de termodinamică și fizică statistică	Politehnica Press, 2016	978-606-515-657-9	163	2	0.25
3	Cristina Cîrtoaje, <b>Emil Petrescu</b>	Probleme rezolvate de fizică clasică	Politehnica Press, 2011	978-606-515-332-5	194	2	0.25
4	Gabriela Iacobescu, Cristina Cîrtoaje, <b>Emil Petrescu</b>	Introducere în biofizică	Editura Universitatea Craiova, 2011	976-606-140-288-5	287	3	0.166
5	<b>Emil Petrescu</b>	Biofizică	Bren, 2008	978-973-648-756-9	350	1	0.5
6	<b>Emil Petrescu</b> , Rodica Eleonora Bena, Moțoc Cornelia	Tranziții Fredericksz în cristale lichide	Bren, 2007	978-973-648-758-3	175	3	0.166
7	Daniela Buzatu, <b>Emil Petrescu</b>	Optical and Electronical Methods Applied to Ternary Protein Solutions	Bren, 2007	978-973-648-641-8	107	2	0.25
8	<b>Emil Petrescu</b> Daniela Buzatu	Probleme de Fizică Modernă	Bren, 2005	973-648-415-7	310	2	0.25
9	<b>Emil Petrescu</b> Daniela Buzatu	Probleme de Fizică	Bren, 2004	973-648-241-3	235	2	0.25
10	<b>Emil Petrescu</b>	Fizică – vol II	Bren 2003	973-648-118-2	502	1	0.5
11	<b>Emil Petrescu</b> , Moțoc Cornelia	Introducere în Fizica Semiconductorilor	Electra 2002	973-8067-63-4	260	2	0.25
12	<b>Emil Petrescu</b> Păun Viorel	Fizică, Probleme rezolvate	Bren, 2001	973-8143-43-8	247	2	0.25
13	<b>Emil Petrescu</b>	Fizică – vol I	Bren, 2001	973-9493-10-6	354	1	0.5
							<b>3.832</b>

1.6 Lucrări în extenso (minim 3 pagini) în Proceedings-uri indexate ISI

	Autori	Lucrare, Conferință	Nr. pag.	$n_i^{ef}$	$A_6 = \sum_i 0.2/n_i^{ef}$
1	Cristina Cîrtoaje, Emil Petrescu,	<i>The influence of graphene nanoplatelets on the Freedericksz transition threshold in nematic liquid crystals</i> Conference: 9th International Conference on Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies (ATOM-N), Proceedings of SPIE, Volume: ADVANCED TOPICS IN OPTOELECTRONICS, MICROELECTRONICS, AND NANOTECHNOLOGIES IX, 10977, Article Number: UNSP 109770J, (2018) DOI: 10.1117/12.2502581, WOS:000458717900018	6	2	0.1
2	Victor Stoian, Cristina Cîrtoaje, Emil Petrescu, Cornelia Moțoc	<i>Optical nonlinearities induced by electric fields in nematic liquid crystals</i> Conference: Conference on Nonlinear Optics and Applications IX, Location: Prague, CZECH REPUBLIC, Date: APR 13-15, 2015 PROC. OF SPIE OPTICS, OPTOELECTRONICS, 9503, 95030T-7, (2015), DOI: 10.1117/12.2178320, WOS:000356606800018	7	4	0.05
3	Cristina Cîrtoaje, Victor Stoiana, Emil Petrescu, Cornelia Moțoc	<i>Relaxation phenomena in nematic liquid crystals with multiwall carbon nanotubes adding</i> Conference: Conference on Smart Sensors, Actuators, and MEMS VII 1st SPIE Conference on Cyber-Physical Systems, Location: Barcelona, SPAIN, Date: MAY 04-06, 2015 PROC. OF SPIE MICROTCHNOLOGIES, Vol. 9517, 95171G-10, 2015, DOI: 10.1117/12.2178333, WOS:000357978500043	10	4	0.05
4	Emil Petrescu, P. Penciu, Camelia Petrescu, M. Catrinciuc	<i>Studies upon the execution of the materials puncture inlet opening chemical metallizing</i> Conference: 6th Symposium on Optoelectronics (SIOEL'99), Location: BUCHAREST, ROMANIA, Date: SEP 22-24, 1999, SIOEL '99: SIXTH SYMPOSIUM ON OPTOELECTRONICS Book Series: PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), Volume: 4068 Pages: 219-225 DOI: 10.1117/12.378673, WOS:000086320700032	6	4	0.05
5	Cornelia Moțoc, Emil Petrescu, C. Dascălu	<i>Magneto-optical behaviour of ferronematics</i> Conference: 5th Conference on Optics (ROMOPTO 97), Location: BUCHAREST, ROMANIA, Date: SEP 09-12, 1997, FIFTH CONFERENCE ON OPTICS (ROMOPTO '97), PTS 1 AND 2, Book Series: Proceedings of SPIE, Volume: 3405 Pages: 941-945 Part: 1-2, Published: 1998, DOI: 10.1117/12.312694 WOS:000075367400141	5	3	0.066

6	C. Dascălu, C. Moțoc, C. Roșu, <b>Emil Petrescu</b> , H. D. Koswing, U. Labes	<i>A study of the electro-optical response of some chiral liquid crystals with high spontaneous polarization</i> , Conference: 5th Conference on Optics (ROMOPTO 97), Location: BUCHAREST, ROMANIA, Date: SEP 09-12, 1997 FIFTH CONFERENCE ON OPTICS (ROMOPTO '97), PTS 1 AND 2, Book Series: Proceedings of SPIE, Volume: 3405 Pages: 796-800 , Part: 1-2, DOI: 10.1117/12.312665, Published: 1998, WOS:000075367400115	5	4	0.04
					<b>0.356</b>

### 1.8 Brevete de invenție naționale acordate

Nr. crt.	Brevet	$n_i^{ef}$	$A_B = \sum_i 0.8/n_i^{ef}$
1	Călin Marian Romeo, <b>Emil Petrescu</b> , Enăchescu Mihaela, Detector cu radiații ionizante, (Detector for ionizing radiation includes voltage and collector electrodes for e.g. plate and sheet thickness measurement) Nr. Brevet invenție acordat: RO -118094-B1/2003, Derwent Primary Accession Number: 2003-254534	3	0.166
2	<b>Emil Petrescu</b> , Enăchescu Mihaela, Stilodozimetrul cu citire directă, (Direct reading radiation dose meter - consists of an ionisation chamber with optical projection of the moving electrode image), Nr. Brevet invenție acordat: RO113188-B1/1998, Derwent Primary Accession Number: 1998-479409	2	0.25
Total			<b>0.416</b>

1.9 Director/Responsabil pentru proiecte de cercetare în valoare de  $V_i$  euro câștigate prin competiție națională sau internațională. Sumele în lei sau în alte valute se convertesc în euro la cursul mediu din anul respectiv conform [www.bnr.ro](http://www.bnr.ro) pentru perioada de după 1999 și la cursul din 1999 pentru perioada anterioară. Responsabilii de proiect sunt cei care conduc o echipă de cercetare fiind menționați ca atare în proiectul depus; în cazul lor se consideră doar suma aferentă echipei conduse

Nr.1	Denumire	Tip proiect, număr și an	Valoare Lei	Curs Euro/Leu	Valoare Euro ( $V_i$ )
1	Aplicație software pentru conversia bazelor de date de tip IBM-DB2 Într-o bază de date de tip ORACLE – versiunea 1-0 Responsabil UPB	PNCIDI- Programul INFOSOC, 166/2004	24.000 (RON)	4,05	5925
2	Muzeu virtual – Aplicație multimedia inteligentă Responsabil UPB	PNCIDI – Program INFOSOC – Sisteme 133/2004	20.000 (RON)	4,05	4938
3	Sistem informatic de transformare a procesului aleatoriu de depunere a documentelor în vederea eliberării pașaportului, într-un proces ordonat. Responsabil UPB	PNCIDI – Program INFOSOC –170/2005	24.000	3,62	6629

4	Analize ultrasensibile AMS de profilare în adâncime a concentrației de tritium și deuteriu cu aplicații în fizica mediului la proceduri de detritiere și în diagnoza experimentelor de fisiune., Responsabil UPB	Cercetare de Excelență, Modul1, P-CD, 6104/2.10.2005 (10218/3.10.2005)	50.000	3.56	16853
5	Promovarea principiilor românești de evaluare a institutelor de CD la criteriile ERA., Responsabil UPB	Cercetare de Excelență, Modul 3, P-INV-VIZ, 238/01.08.2006	20.000	3.55	5633
6	Cercetări privind relația dintre structură proprietăți material la prelucrarea cu viteze mari și implementarea acestor tehnologii în mediul industrial cu implicații în competitivitatea economiei naționale (CENVITAR). Responsabil UPB	Cercetare de Excelență, Modul1, P-CD, 292/2006	100.000	3.55	28169
7	AMS – Metodă de monitorizare a mediului. Responsabil UPB	Cercetare de Excelență, Modul1, P-CD, 283/2006	60.000	3.55	16901
8	Abordări fundamentale ale fisiunii nucleare pentru aplicații (ABOMA). Responsabil UPB	Cercetare de Excelență, Modul1, P-CD, 06-10-79/1.08.2006	90.000	3.55	25352
9	Tehnologie informatică complexă pe bază de cercetări multidisciplinare pentru monitorizarea infraționalității și activităților de combatere a acesteia la nivel național conform cerințelor COMBINF . Responsabil UPB	Cercetare de Excelență, Modul 1, P-CD, 87/2006	180.000	3.55	50704
10	Dezvoltarea cercetării academice interdisciplinare în vederea creșterii competitivității universităților din România pe plan internațional. Responsabil UPB	Parteneriate în domeniile prioritare, Proiect complex 838/1.09.2007	197.225	3.36	58697
11	Tehnologii și materiale avansate pentru aplicații în optoelectronică. Responsabil UPB	PN II, Capacități, Modul I, Tip PI, 126/14.09.2007	600.000	3.36	178571
12	Studiul comportării tritiului prin nanotehnologia AMS, în materiale folosite la instalații de detriticele a apei utilizate în centrale nucleare, în scopul protejării personalului și a mediului înconjurător. Responsabil UPB	Parteneriate în domenii prioritare 72185/01.10.2008	58.960	3.37	17495
13	Dezvoltarea schemelor de iradiere cu radiație optică coerentă multiplu fracționate (sifroc) în terapia fotodinamică cu metil-aminolevulinat (mal-pdt) a afecțiunilor cutanate premaligne și maligne nonmelanocitare Responsabil UPB	Parteneriate în domenii prioritare 62074/01.10.2008	300000	3.37	89020

14	Analize ale concentratiei izotopilor de hidrogen si a altor elemente din caramizi demontate din TPL de la Tore Supra Tokamak” (AMS analyses of concentrations of hydrogen isotopes and other elements in tiles dismantled from the Toroidal Pump Limiter at Tore Supra Tokamak.) Responsabil UPB	C2-04/2012 IFA-CEA	65.000	4.5	14444
			Valoare USD	Curs Euro/Dolar	Valoare Euro ( $V_i$ )
15	Dynamics of fluctuation of the magnetization in magnetic nanostructured materials by means of neutron scattering methotechniques. Responsabil UPB	Research project 22 /tema 04-4-1069 - 2009/2014, between JINR and the Institutions in Romania based on the JINR Order No. 96 din 17.02.2014	2000	1.33	1506
16	Dynamics of fluctuation of the magnetization in magnetic nanostructured materials by means of neutron depolarised techniques. Responsabil UPB	Research project 76 /tema 04-4-1069-2009 between JINR and the Institutions in Romania based on the JINR Order No. 82/18.02.2013	2000	1.33	1506
17	2014 Development of SAS methods of unpolarized neutrons for investigation of magnetic nanoscaled particles. Responsabil UPB	Research project 36 /tema 04-4-1069-2009/2014 between JINR and the institutions in Romania based on JINR Order No No. 82/06.02.2012	3000	1,28	2334
				Total	524677
	Punctaj $A_{10} = \sum_i V_i / 100000$				<b>5.246</b>

## Punctaj

### 1 Activitate didactică și profesională

$$A=3.832 +0.356 +0.416+5.246=9.85$$

## 2. ACTIVITATEA DE CERCETARE

## 3. RECUNOAȘTEREA IMPACTULUI ACTIVITĂȚII

$AIS_i$  = scorul de influență absolut;  $n_i^{ef}$  = nr. autori;  $p_i$  = scorul de influență absolut pentru care candidatul este prim autor sau autor corespondent;  $c_i$  = nr. de citări în reviste ISI ale publicației  $i$

		$AIS_i$	$n_i^{ef}$	$AIS_i/n_i^{ef}$	$p_i$	$c_i$	$c_i/n_i^{ef}$
2019 47	Cristina Cirtoaje, Gabriela Iacobescu, Emil Petrescu, <i>Freedericksz Transitions in Twisted Ferronematics Subjected to Magnetic and Laser Field</i> , CRYSTALS, Volume: 10 Issue: 7 Article Number: 567, DOI: 10.3390/cryst10070567, Published: JUL 2020 WOS:000554207900001	0,476	3	0,158			
2019 46	Cristina Cirtoaje, Emil Petrescu, <i>The Influence of Single-Walled Carbon Nanotubes on the Dynamic Properties of Nematic Liquid Crystals in Magnetic Field</i> , MATERIALS, Volume: 12 Issue: 24, Article Number: 4031, Published: DEC 2 2019, DOI: 10.3390/ma12244031, WOS:000507308200009	0,543	2	0,271	0,543	1	0,5
Citări	1	D. A. Petrov, <i>Molecular-statistical theory of ferromagnetic liquid crystal suspensions</i> , PHYSICAL REVIEW E, Volume: 101 Issue: 3, Article Number: 030701, DOI: 10.1103/PhysRevE.101.030701, Published: MAR 16 2020 WOS:000519704500001					
2019 45	Cristina Cirtoaje, Emil Petrescu, Cristina Stan, Andrey Rogachev, <i>Electric Freedericksz transition in nematic liquid crystals with graphene quantum dot mixture</i> , APPLIED SURFACE SCIENCE, Volume: 487 Published: SEP 1 2019, Pages: 1301-1306, DOI: 10.1016/j.apsusc.2019.05.073, WOS:000471996400146	0,773	4	0.193	0.773	2	0,5
Citări	2	P. Singh, P. Chamoli, S. Sachdev, K. K. Raina, R.K. Shukla, <i>Structural, optical and rheological behavior investigations of graphene oxide/glycerol based lyotropic liquid crystalline phases</i> , APPLIED SURFACE SCIENCE, Volume: 509, Article Number: 144710, DOI: 10.1016/j.apsusc.2019.144710, Published: APR 15 2020 WOS:000514827600129					
	1	G. Kocakulah, M. Yildirim, O. Koysal, <i>Effect of intermolecular charge transfer between Ni(II)Pc and CdSeS/ZnS QD on dielectric relaxation mechanism of 5CB nematic liquid crystals in the presence of UV illumination</i> , JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Volume: 31 Issue: 3 Pages: 2583-2590, DOI: 10.1007/s10854-019-02797-6, Published: FEB 2020 WOS:000512889300085					
2018 44	Emil Petrescu, Cristina Cirtoaje, Octavian Danila, <i>Dynamic behaviour of nematic liquid crystal mixtures with quantum dots in electric fields</i> , BEILSTEIN JOURNAL OF NANOTECHNOLOGY 2018, 9, 399-406, doi:10.3762/bjnano.9.39, WOS:000424048500002	0.633	3	0.211	0.663	6	2
	6	F. P. Pandey, A. Rastogi, S. Singh, <i>Optical properties and zeta potential of carbon quantum dots (CQDs) dispersed nematic liquid crystal 4'-heptyl-4-biphenylcarbonitrile (7CB)</i> , OPTICAL MATERIALS, Volume: 105, Article Number: UNSP 109849, DOI: 10.1016/j.optmat.2020.109849, Published: JUL 2020 WOS:000539377300005					

Citări	5	S. Singh, <i>Impact of Dispersion of Nanoscale Particles on the Properties of Nematic Liquid Crystals</i> , CRYSTALS, Volume: 9 Issue: 9, Article Number: 475, Published: SEP 2019, DOI: 10.3390/cryst9090475, WOS:000487979700022						
	4	D. A. Petrov, P. K. Skokov, A. N. Zakhlevnykh, D. V. Makarov, <i>Magnetic segregation effect in liquid crystals doped with carbon nanotubes</i> , BEILSTEIN JOURNAL OF NANOTECHNOLOGY, Volume: 10 Pages: 1464-1474, Published: JUL 22 2019, DOI: 10.3762/bjnano.10.145, WOS:000476926100001						
	3	D.P. Singh, A.K. Misra, A.S. Achalkumar, C.V. Yelamaggad, M. Depriester, <i>Transmuting the blue fluorescence of hekates mesogens derived from tris(N-salicylideneaniline)s core via ZnS/ZnS:Mn<sup>2+</sup> semiconductor quantum dots dispersion</i> , JOURNAL OF LUMINESCENCE, Volume: 210 Pages: 7-13, 2-19, Published: 2019, DOI: 10.1016/j.jlumin.2019.02.009, WOS:000462774900002						
	2	A. Barar, D. Manaila-Maximean, M. Vladescu, P. Schiopu, <i>Simulation of charge carrier transport mechanisms for quantum dot-sensitized solar cell structures</i> , UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, Volume: 81 Issue: 3 Pages: 265-270, Published: 2019, WOS:000477968300024						
	1	A.Barar, O. Danila, P. Schiopu, <i>Generation of continuous polarization distribution in a single laser beam</i> , UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, Volume: 81 Issue: 2 Pages: 279-286, Published: 2019, WOS:000469381900027						
2018 43	Emil Petrescu, Cristina Cirtoaje, <i>Dynamic behaviour of a nematic liquid crystal with added carbon nanotubes in an electric field</i> , BEILSTEIN JOURNAL OF NANOTECHNOLOGY, 2018, 9, 233–241, doi: 10.3762/bjnano.9.25, WOS:000423192400001	0.633	2	0.316	0.663	7	3.5	
Citări	7	HYGao, SN Li, JC Liu, W. Zhou, F. Xu, ZH Dai, XX Cheng, HL Fang, XQ Ge, XQ LN. Sun, <i>Investigation on dynamic holographic display in liquid crystal film doped with carbon dots</i> , MATERIALS EXPRESS, Volume: 10 Issue: 6 Pages: 780-787, DOI: 10.1166/mex.2020.1743, Published: JUN 2020, WOS:000555901700002						
	6	J. Y. Lee, B. Lev, J. H. Kim, <i>Analogue Orientation Control of a Carbon Fibre in a Nematic Liquid Crystal</i> , SCIENTIFIC REPORTS, Volume: 9, Article Number: 20223, DOI: 10.1038/s41598-019-56594-6, Published: DEC 27 2019 WOS:000509350500001						
	5	F. Moghadas, J.B. Poursamad, M. Sahrai, M. Emdadi, <i>Flexoelectric coefficients enhancement via doping carbon nanotubes in nematic liquid crystal host</i> , EUROPEAN PHYSICAL JOURNAL E, Volume: 42 Issue: 8, Article Number: 103, Published: AUG 13 2019, DOI: 10.1140/epje/i2019-11864-1, WOS:000480468200002						
	4	D. A. Petrov, A.N. Zakhlevnykh, <i>Statistical theory of magnetic field induced phase transitions in negative diamagnetic anisotropy liquid crystals doped with carbon nanotubes</i> , JOURNAL OF MOLECULAR LIQUIDS, Volume: 28, Article Number: UNSP 110901, Published: AUG 1 2019, DOI: 10.1016/j.molliq.2019.110901, WOS:000475998500039						
	3	D. A. Petrov, P. K. Skokov, A. N. Zakhlevnykh, D. V. Makarov, <i>Magnetic segregation effect in liquid crystals doped with carbon nanotubes</i> , BEILSTEIN JOURNAL OF NANOTECHNOLOGY, Volume: 10 Pages: 1464-1474, Published: JUL 22 2019, DOI: 10.3762/bjnano.10.145, WOS:000476926100001						
	2	M. Mrukiewicz, K. Kowiorski, P. Perkowski, R. Mazur, M. Djas, <i>Threshold voltage decrease in a thermotropic nematic liquid crystal doped with graphene oxide flakes</i> , BEILSTEIN JOURNAL OF NANOTECHNOLOGY, Volume: 10 Pages: 71-78, 2019, DOI: 10.3762/bjnano.10.7, WOS:000455089600002, Accession Number: WOS:000462774900002						
	1	C.R. Chang, Y. Zhao, L.B. An Liu, <i>Liquid crystallinity of carbon nanotubes</i> , RSC ADVANCES, Volume: 8 Issue: 28 Pages: 15780-15795, 2018 DOI: 10.1039/c8ra00879e, WOS:000431813800057						



2018 42	<b>Emil Petrescu, Stefan Teodorescu, Emilian Iuciuc, Voicu Alexandru, <i>Temperature dependence of Freedericksz transition in nematic liquid crystals with quantum dots</i>, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A - APPLIED MATHEMATICS AND PHYSICS, Volume: 80, Issue: 2, 281-288, Published: 2018, WOS:000435265100028</b>	0.09	4	0.022	0.09		
2017 41	<b>Emil Petrescu, Cristina Cirtoaje and Cristina Stan, <i>Dynamic behaviour of a nematic liquid crystal mixed with CoFe<sub>2</sub>O<sub>4</sub> ferromagnetic nanoparticles in a magnetic field</i>, BEILSTEIN JOURNAL OF NANOTECHNOLOGY. 2017, 8, 2467–2473. doi:10.3762/bjnano.8.246, WOS:000416166400001.</b>	0.745	3	0.248	0.745	3	1.333
Citări	4	R. Naseri, S. Shoarinejad, <i>Polarization grating based on liquid crystals doped with ferroelectric nanoparticles</i> , LIQUID CRYSTALS, DOI: 10.1080/02678292.2020.1750071, Early Access: APR 2020 WOS:000527659300001					
	3	K. Zakutanska, V. Lackova, N. Tomasovicova, S. Burylov, N. Burylova, V. Skosar, A. Jurikova, M. Vojtko, J. Jadzyn, P. Kopcansky, <i>Nanoparticle's size, surfactant and concentration effects on stability and isotropic-nematic transition in ferronematic liquid crystal</i> , JOURNAL OF MOLECULAR LIQUIDS, Volume: 289, Article Number: UNSP 111125, 2019, DOI: 10.1016/j.molliq.2019.111125, WOS:000482247900069					
	2	P. J. Jessy, S. Radha, N. Patel, <i>Highly improved dielectric behaviour of ferronematic nanocomposite for display application</i> , LIQUID CRYSTALS, Volume: 46 Issue: 5 Pages: 772-786, 2019, DOI: 10.1080/02678292.2018.1528642, WOS:000467257100013					
	1	Tang, Xiuzhen; Xu, Yanjun; Chen, Jie; et al. <i>Intermittent time-set technique controlling the temperature of magnetic-hyperthermia-ablation for tumor therapy</i> , RSC ADVANCES, Volume: 8 Issue: 30 Pages: 16410-16418, 2018, DOI: 10.1039/c8ra01176a, WOS:000431814500002					
2017 40	<b>Mihaela Antonina Calin, Sorin Viorel Parasca, Marian Romeo Calin, Emil Petrescu, <i>An Analysis of Human Dorsal Hand Skin Texture Using Hyperspectral Imaging Technique for Assessing the Skin Aging Process</i>, APPLIED SPECTROSCOPY, Vo: 71(3) Pages: 391-400 MAR 2017, DOI:10.1177/0003702816659667 WOS:000399925900004</b>	0.518	4	0.129		2	0.5
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Citări	8	D. Manaila Maximean, <i>New grafted ferrite particles/liquid crystal composite under magnetic field</i> , JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 452 (2018) 343-348, doi: 10.1016/j.jmmm.2017.12.096, WOS:000425547700051					
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Citări	1	Adina Elena SCRIPA (TUDOSE), Dan Gheorghe DIMITRIU and Dana Ortansa DOROHOI, <i>Dispersion of the visible rotatory power for aqueous glucose solutions</i> , UNIVERSITY POLITEHNICA BUCHAREST OF SCIENTIFIC BULLETIN SERIES A- APPLIED MATHEMATICS AND PHYSICS, Vol. 79(2), pag. 307-313, 2017, WOS:000406126800030						
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Citări	5	G.E. Iacobescu, <i>Dynamic evolution of the nematic liquid crystal director in magnetic field</i> , UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, Vol.80(4) Pages: 279-290, 2018, WOS:000453448400029						
	4	C. Moțoc, C. Cârtoaje, A. Stoica, V. Stoian, A. M. Albu, <i>Relaxation Phenomena in nematic – polymer mixtures</i> , UNIVERSITY POLITEHNICA BUCHAREST OF SCIENTIFIC BULLETIN SERIES A- APPLIED MATHEMATICS AND PHYSICS, Vol 75, iss.3, pag. 181-186, 2013, WOS:000322847600018						
	3	C. Roșu, C. Cârtoaje, A. L. Păun, <i>Magneto-optical effects in nematic liquid crystal doped with Prussian Blue</i> , OPTOELECTRONICS AND ADVANCED MATERIALS,- RAPID COMMUNICATIONS, Vol. 3, Issue: 2, Pages: 127-131, (2009), WOS:000264239300010						
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Citări	7	D. Manaila Maximean, <i>New grafted ferrite particles/liquid crystal composite under magnetic field</i> , JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 452 (2018) 343–348, doi: 10.1016/j.jmmm.2017.12.096, WOS:000425547700051						
	6	Cornelia Moțoc, Cristina Cârtoaje, Adriana Stoica, Victor Stoian, Ana Maria Albu, <i>Relaxation Phenomena in nematic – polymer mixtures</i> , UNIVERSITY POLITEHNICA BUCHAREST OF SCIENTIFIC BULLETIN SERIES A- APPLIED MATHEMATICS AND PHYSICS, Vol 75, iss.3, pag. 181-186, 2013, WOS:000322847600018						
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### Punctaje

#### 2. Activitate de Cercetare

$$I = \sum_i A I S_i / n_i^{ef} = 5.052$$

$$P = \sum_i p_i = 9.631$$

#### 3. Recunoașterea impactului activității

$$C = \sum_i c_i / n_i^{ef} = 64.434$$

$$h = 10$$

#### Total

$$T = A + P/2 + I/2 + C/20 + h/5 = 22.413$$



### Anexa 1 – Calcule

An	Nr.	Nr.aurori	AIS <sub>i</sub>	n <sub>i</sub> <sup>ef</sup>	AIS <sub>i</sub> / n <sub>i</sub> <sup>ef</sup>	pi	c <sub>i</sub>	c <sub>i</sub> / n <sub>i</sub> <sup>ef</sup>
1998	1	2	0.6	2	0.3		8	4
2000	2	3	0.2	3	0.066	0.2	5	1.667
2001	3	2	0.7	2	0.35	0.7	9	4.5
2001	4	4	0.2	4	0.005		1	0.25
2002	5	2	0.7	2	0.35	0.7	8	4
2003	6	6	0.09	5.5	0.016		6	1.09
2003	7	2	0.7	2	0.35	0.7	7	3.5
2004	8	3	0.17	3	0.056	0.17	1	0.333
2004	9	3	0.01	3	0.003			
2004	10	5	0.01	5	0.002		5	1
2004	11	5	0.01	5	0.002		1	0.2
2004	12	2	0.1	2	0.05		2	1
2005	13	4	0.02	4	0.005			
2005	14	4	0.05	4	0.012			
2005	15	4	0.05	4	0.012			
2005	16	4	0.12	4	0.003		1	0.25
2005	17	5	0.12	5	0.024		2	0.4
2006	18	2	0.3	2	0.15	0.3	2	1
2006	19	2	0.02	2	0.01	0.02	1	0.5
2007	20	4	0.067	4	0.016	0.067		
2007	21	3	0.095	3	0.031		2	0.667
2007	22	3	0.161	3	0.053		5	1.667
2008	23	4	0.067	4	0.016	0.067	1	0.25
2008	24	2	0.067	2	0.033	0.067		
2008	25	4	0.46	2	0.23	0.46	6	3
2009	26	2	0.448	2	0.234	0.448	12	6
2010	27	4	0.067	4	0.016		4	1
2010	28	4	0.067	4	0.016		1	0.25
2011	29	3	0.053	3	0.013		2	0.667
2011	30	3	0.067	3	0.022		1	0.333
2013	31	3	0.506	3	0.168	0.506	5	1.667
2013	32	4	0.392	4	0.098		3	0.75
2013	33	3	0.399	3	0.133	0.399	18	6
2013	34	4	0.587	4	0.146		2	0.5
2014	35	4	0.051	4	0.012			
2015	36	4	0.064	4	0.016	0.064		
2015	37	3	0.454	3	0.151	0.454	5	1.667
2016	38	4	0.446	4	0.111	0.446	12	3
2016	39	2	0.446	2	0.223	0.446	11	5.5
2017	40	3	0.518	4	0.129		2	0.5
2017	41	3	0.745	3	0.248	0.745	4	1.333
2018	42	4	0.09	4	0.022	0.09		
2018	43	2	0.633	2	0.316	0.633	7	3.5
2018	44	3	0.633	3	0.211	0.633	6	2
2019	45	4	0.773	4	0.193	0.773	2	0.5
2019	46	2	0.543	2	0.271	0.543	1	0.5
2020	47	3	0.476	3	0.158			
<b>TOTAL</b>					<b>I=5.052</b>	<b>P=9,631</b>		<b>C=64.434</b>



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