

Fișa de îndeplinire a standardelor minimale CNATDCU

Nr. crt.	Tipul de activitate	Indicator obținut de candidat	Standard minimal (CS I)	Criteriu îndeplinit (DA/NU)
1	Activitatea didactică și profesională	2.503	2	DA
2	Activitatea de cercetare: articole științifice originale în extenso ca autor	13.528	4	DA
3	Activitatea de cercetare: articole științifice originale în extenso ca prim autor sau autor corespondent	27.524	4	DA
4	Citări în reviste cu factor de impact	63.475	40	DA
5	Indicele Hirsch	11	10	DA
6	Punctaj total CNATDCU	28.402	12	DA

1. Activitatea didactica si profesionala:

a. Capitole de carti in edituri internationale recunoscute Web of Science in calitate de autor:

Nr. crt.	Capitole de carti in edituri internationale	Nr. autori	Nr. efectiv de autori	Punctaj
1	G.A. Nemnes , U. Wulf, L. Ion and S. Antohe, "Ballistic transistors: From planar to cylindrical nanowire transistors", Trends in nanophysics, Springer (2010), book chapter, ISBN 978-3-642-12069-5 (2010)	4	4	0.25
TOTAL				0.25

b. Lucrari in extenso (cel putin 3 pagini) publicate in Proceedings-uri indexate ISI:

Nr. crt.	Lucrare ISI proceedings	Nr. autori	Nr. efectiv de autori	Punctaj
1	G.A. Nemnes , A. Manolescu, V. Gudmundsson, "Reduction of ballistic spin scattering in a spin-FET using stray electric fields", J. Phys.: Conf. Series 338, 012012 (2012)	3	3	0.066
2	Adela Nicolaev, T.L. Mitran, G.A. Nemnes , L. Ion, S. Antohe, "Ab-initio investigation of point-like defects in AlN nanowires", J. Phys.: Conf. Series 338, 012014 (2012)	5	5	0.040
3	G.A. Nemnes and D.V. Anghel, "Fractional exclusion statistics in systems with localized states", J. Phys.: Conf. Series 410, 012120 (2013)	2	2	0.1
4	Visan Camelia and G. A. Nemnes , "Ab Initio Investigations of Thermoelectric Effects in Graphene - Boron Nitride Nanoribbons", EPJ Web of Conferences 108, 02045 (2016)	2	2	0.1
5	G. A. Nemnes , Camelia Visan, D. V. Anghel and A. Manolescu, "Molecular dynamics of halogenated graphene - hexagonal boron nitride nanoribbons", J. Phys.: Conf. Series 738, 012027 (2016)	4	4	0.05
6	G. A. Nemnes and D. V. Anghel, "A drift-diffusion model based on the fractional exclusion statistics", J. Phys.: Conf. Series 738, 012006 (2016)	2	2	0.1
7	Alexandra Palici, G. A. Nemnes , Cristina Besleaga, L. Pintilie, D. V. Anghel, Ioana Pintilie, and A. Manolescu, "The Influence of the Relaxation Time on the Dynamic Hysteresis in Perovskite Solar Cells", EPJ Web of Conferences 173, 03017 (2018)	7	7	0.028
TOTAL				0.484

c. Director de proiect -- proiecte de cercetare castigate in competitii nationale:

Nr. crt.	Proiecte nationale (director de proiect)	Valoare (EUR)	Punctaj
1	“Cylindrical Nanowire Transistor in the Landauer-Büttiker Formalism” CNCSIS, RP-1, Septembrie 2008 Perioada: 2009 – 2011 (01.07.2009, EUR/RON=4.1892) Buget: 450000 lei, 107419 EUR	107419	1.074
2	“Advanced many-body spin transport and spin relaxation phenomena in nanowire systems” CNCS, PN-II-RU-PD-2011-3-0044 Perioada: 2011 – 2013 (05.10.2011, EUR/RON=4.3144) Buget: 300000 lei, 69534 EUR	69534	0.695
TOTAL			1.769

TOTAL:

$$A = 0.25 + 0.484 + 1.769 = 2.503 \quad (\text{minim 2 pentru Abilitare/CS1/Prof.Univ.})$$

2. Activitatea de cercetare:

Nr. crt.	Articol	Autor principal	n	n _{eff}	a	a/n _{eff}	a _{prim}
1	P.N. Racec*, E.R. Racec, G.A. Nemnes and U. Wulf, “ <i>Coherent leakage current in mesoscopic MIS-type capacitors</i> ”, Mater. Sci. Semicond. Process. 6, 129 (2003)	0	4	4,00	0,320	0,080	0,000
2	G.A. Nemnes , U. Wulf* and P.N. Racec, “ <i>Nanoscale transistors in the Landauer-Büttiker formalism</i> ”, J. Appl. Phys. 96, 596-604 (2004)	1	3	3,00	1,200	0,400	1,200
3	G.A. Nemnes , U. Wulf* and P.N. Racec, “ <i>Nonlinear I-V characteristics of nanotransistors in the Landauer-Büttiker formalism</i> ”, J. Appl. Phys. 98, 084308 (2005)	1	3	3,00	1,200	0,400	1,200
4	G.A. Nemnes* and K.H. Hoffmann, “ <i>Dynamically relevant structural properties of short-range spin glasses and disordered ferromagnets</i> ”, Phys. Rev. B 77, 172410 (2008)	1	2	2,00	1,300	0,650	1,300
5	G.A. Nemnes* and K.H. Hoffmann, “ <i>Spin-box algorithm for low temperature dynamics of short range disordered Ising spin systems</i> ”, Comp. Phys. Comm. 180, 1098 (2009)	1	2	2,00	0,938	0,469	0,938
6	G.A. Nemnes* , L. Ion and S. Antohe, “ <i>Self-consistent potentials and linear regime conductance of cylindrical nanowire transistors in the R-matrix formalism</i> ”, J. Appl. Phys. 106, 113714 (2009)	1	3	3,00	0,877	0,292	0,877

7	G.A. Nemnes* , U. Wulf, L. Ion and S. Antohe, "Ballistic transistors: From planar to cylindrical nanowire transistors", Trends in nanophysics, Springer (2010), book chapter, ISBN 978-3-642-12069-5 (2010)	1	4	4,00	0,000	0,000	0,000
8	G.A. Nemnes* , L. Ion and S. Antohe, "Thermo-electrical properties of nanostructured ballistic nanowires in the R-matrix formalism using the Implicitly Restarted Arnoldi Method", Physica E 42, 1613 (2010)	1	3	3,00	0,401	0,134	0,401
9	G.A. Nemnes* , D. V. Anghel, "Stochastic simulations for the time evolution of systems which obey generalized statistics: Fractional exclusion statistics and Gentile's statistics", J. Stat. Mech. P09011 (2010)	1	2	2,00	1,088	0,544	1,088
10	L. Ion*, G.A. Nemnes , C. Visan, D.E.N. Brancus, S. Antohe, "Electron-optical phonon interaction in core-shell nanocolumn heterostructures made of wurtzite-type materials", Dig. J. Nanomater. Biostruct. 6, 331 (2011)	0	5	5,00	0,200	0,040	0,000
11	C. Visan, T.L. Mitran, Adela Nicolaev, G.A. Nemnes , L. Ion, S. Antohe*, "Ab initio study of point-like defects influence on charge transport in AlN nanowires", Dig. J. Nanomater. Biostruct. 6, 1173 (2011)	0	6	5,33	0,200	0,038	0,000
12	T.L. Mitran, Adela Nicolaev, G.A. Nemnes* , L. Ion, S. Antohe, "Ab initio vibrational and thermal properties of AlN nanowires under axial stress", Comput. Mat. Sci. 50, 2955 (2011)	1	5	5,00	0,648	0,130	0,648
13	G.A. Nemnes* , "Spin current switching and spin-filtering effects in Mn-doped boron	1	1	1,00	0,396	0,396	0,396

	nitride nanoribbons”, J. Nanomater. 748639 (2012)						
14	G.A. Nemnes* , A. Manolescu, V. Gudmundsson, “Reduction of ballistic spin scattering in a spin-FET using stray electric fields”, J. Phys.: Conf. Series 338, 012012 (2012)	1	3	3,00	0,000	0,000	0,000
15	Adela Nicolaev, T.L. Mitran, G.A. Nemnes , L. Ion*, S. Antohe, “Ab-initio investigation of point-like defects in AlN nanowires”, J. Phys.: Conf. Series 338, 012014 (2012)	0	5	5,00	0,000	0,000	0,000
16	G.A. Nemnes* , C. Visan, S. Antohe, “Thermopower of atomic-sized wurtzite AlN wires”, Physica E 44, 1092 (2012)	1	3	3,00	0,420	0,140	0,420
17	T.L. Mitran, Adela Nicolaev, G.A. Nemnes* , L. Ion, S. Antohe, “Magnetic behavior and clustering effects in Mn-doped boron nitride sheets”, J. Phys.: Condens. Matter 24, 326003 (2012)	1	5	5,00	1,000	0,200	1,000
18	G.A. Nemnes* and D.V. Anghel, “Fractional exclusion statistics in systems with localized states”, J. Phys.: Conf. Series 410, 012120 (2013)	1	2	2,00	0,000	0,000	0,000
19	G.A. Nemnes* , “Spin filtering effects in wurtzite and graphite-like AlN nanowires with Mn impurities”, J. Nanomater. 408475 (2013)	1	1	1,00	0,370	0,370	0,370
20	D.V. Anghel*, G.A. Nemnes and F. Gulminelli, “Equivalence between fractional exclusion statistics and self-consistent mean-field theory in interacting particle systems in any number of dimensions”, Phys. Rev. E 88, 042150 (2013)	0	3	3,00	0,900	0,300	0,000
21	G.A. Nemnes* and C. Visan, “Ab initio investigation of spin-filter effects in GaN	1	2	2,00	0,400	0,200	0,400

	<i>nanowires with transitional metal impurities</i> ", Eur. Phys. J. Plus 128, 131 (2013)						
22	G.A. Nemnes* and S. Antohe, " <i>Spin filtering in graphene nanoribbons with Mn-doped boron nitride inclusions</i> ", Mater. Sci. Eng. B 178, 1347 (2013)	1	2	2,00	0,500	0,250	0,500
23	G.A. Nemnes* and D.V. Anghel, " <i>Fractional exclusion statistics in non-homogeneous interacting particle systems</i> ", Rom. Rep. Phys. 66, 336 (2014)	1	2	2,00	0,130	0,065	0,130
24	G.A. Nemnes* and Adela Nicolaev, " <i>Transport in ferrocene single molecules for terahertz applications</i> ", Phys. Chem. Chem. Phys. 16, 18478 (2014)	1	2	2,00	1,209	0,605	1,209
25	T. L. Mitran, G. A. Nemnes , L. Ion and Daniela Dragoman*, " <i>Effects of graded distribution of scattering centers on ballistic transport</i> ", J. Appl. Phys. 116, 124316 (2014)	0	4	4,00	0,682	0,171	0,000
26	G. A. Nemnes* and Camelia Visan, " <i>Electron transport properties of fulgide-based photochromic switches</i> ", RSC Advances 5, 26438 (2015)	1	2	2,00	0,628	0,314	0,628
27	G. A. Nemnes* , D.V. Anghel, " <i>Glassy behavior of disordered fractional exclusion statistics systems</i> ", Rom. J. Phys. 60, 691 (2015)	1	2	2,00	0,173	0,087	0,173
28	A. A. Nila, G. A. Nemnes* , A. Manolescu, " <i>Ab initio investigation of optical properties in triangular graphene - boron nitride core-shell nanostructures</i> ", Rom. J. Phys. 60, 696 (2015)	1	3	3,00	0,173	0,058	0,173
29	A. E. Stanciu, G. A. Nemnes* and A. Manolescu, " <i>Thermoelectric effects in nanostructured quantum wires in the non-</i>	1	3	3,00	0,173	0,058	0,173

	<i>linear temperature regime</i> ”, Rom. J. Phys. 60, 716 (2015)						
30	G. A. Nemnes* , C. Goehry, T. L. Mitran, Adela Nicolaev, L. Ion, S. Antohe, N. Plugaru, A. Manolescu, “ <i>Band alignment and charge transfer in rutile-TiO₂/CH₃NH₃PbI₃-xCl_x interfaces</i> ”, Phys. Chem. Chem. Phys. 17, 30417 (2015)	1	8	6,00	1,158	0,193	1,158
31	C. Goehry, G. A. Nemnes and Andrei Manolescu*, “ <i>Collective Behavior of Molecular Dipoles in CH₃NH₃PbI₃</i> ”, J. Phys. Chem. C 119, 19674 (2015)	0	3	3,00	1,200	0,400	0,000
32	G. A. Nemnes* and Sorina Iftimie, “ <i>Charge localization effects and transport in dendritic nanostructures for photovoltaic applications</i> ”, Appl. Surf. Sci. 352, 158 (2015)	1	2	2,00	0,574	0,287	0,574
33	G. A. Nemnes* and Camelia Visan, “ <i>Ab initio vibrational and thermal properties of carbon allotropes: polycyclic and rectangular networks</i> ”, Comput. Mat. Sci. 109, 14 (2015)	1	2	2,00	0,600	0,300	0,600
34	Visan Camelia and G. A. Nemnes* , “ <i>Ab Initio Investigations of Thermoelectric Effects in Graphene - Boron Nitride Nanoribbons</i> ”, EPJ Web of Conferences 108, 02045 (2016)	1	2	2,00	0,000	0,000	0,000
35	G. A. Nemnes* , Camelia Visan, D. V. Anghel and A. Manolescu, “ <i>Molecular dynamics of halogenated graphene - hexagonal boron nitride nanoribbons</i> ”, J. Phys.: Conf. Series 738, 012027 (2016)	1	4	4,00	0,000	0,000	0,000
36	G. A. Nemnes* and D. V. Anghel, “ <i>A drift-diffusion model based on the fractional exclusion statistics</i> ”, J. Phys.: Conf. Series 738, 012006 (2016)	1	2	2,00	0,000	0,000	0,000
37	A. Manolescu*, G. A. Nemnes , A. Sitek, T.	0	6	5,33	1,227	0,230	0,000

	O. Rosdahl, S. I. Erlingsson, and V. Gudmundsson, “ <i>Conductance oscillations of core-shell nanowires in transversal magnetic fields</i> ”, Phys. Rev. B 93, 205445 (2016)						
38	T.L. Mitran, G. A. Nemnes* , L. Ion, Daniela Dragoman, “ <i>Ballistic electron transport in wrinkled superlattices</i> ”, Physica E 81, 131 (2016)	1	4	4,00	0,446	0,112	0,446
39	S. Heedt*, A. Manolescu, G. A. Nemnes , W. Prost, J. Schubert, D. Grutzmacher and T. Schaepers, “ <i>Adiabatic Edge Channel Transport in a Nanowire Quantum Point Contact Register</i> ”, Nano Lett. 16, 4569 (2016)	0	7	5,67	4,568	0,806	0,000
40	D.V. Anghel* and G. A. Nemnes , “ <i>The application of the fractional exclusion statistics to the BCS theory--a redefinition of the quasiparticle energies</i> ”, Physica A 458, 276 (2016)	0	2	2,00	0,465	0,233	0,000
41	G. A. Nemnes* , Alexandra Palici and A. Manolescu, “ <i>Transparent boundary conditions for time-dependent electron transport in the R-matrix method with applications to nanostructured interfaces</i> ”, Comput. Phys. Commun. 208, 109 (2016)	1	3	3,00	1,461	0,487	1,461
42	Adela Nicolaev, T. L. Mitran, Sorina Iftimie, G. A. Nemnes* , “ <i>Optimization of halide perovskite solar cells based on nanocolumnar ZnO</i> ”, Sol. Energ. Mater. Sol. Cells 158, 202 (2016)	1	4	4,00	1,034	0,259	1,034
43	D.V. Anghel* and G. A. Nemnes , “ <i>The role of the chemical potential in the BCS theory</i> ”, Physica A 464, 74 (2016)	0	2	2,00	0,465	0,233	0,000
44	Cristina Besleaga, Laura Elena Abramiuc,	0	14	8,00	2,670	0,334	0,000

	Viorica Stancu, A. G. Tomulescu, M. Sima, Liliana Trinca, N. Plugaru, L. Pintilie, G. A. Nemnes , Mihaiela Iliescu, H. G. Svavarsson, A. Manolescu and Ioana Pintilie, " <i>Iodine Migration and Degradation of Perovskite Solar Cells Enhanced by Metallic Electrodes</i> ", J. Phys. Chem. Lett. 7, 5168 (2016)						
45	G. A. Nemnes* , Cristina Besleaga, A. G. Tomulescu, Ioana Pintilie, L. Pintilie, K. Torfason, A. Manolescu, "Dynamic electrical behavior of halide perovskite based solar cells", Sol. Energ. Mater. Sol. Cells 159, 197 (2017)	1	7	5,67	0,927	0,164	0,927
46	T. L. Mitran and G. A. Nemnes* , " <i>Helical graphite metamaterials for intense and locally controllable magnetic fields</i> ", RSC Adv. 7, 49041 (2017)	1	2	2,00	0,564	0,282	0,564
47	N. Plugaru*, G. A. Nemnes , L. Filip, Ioana Pintilie, L. Pintilie, K. T. Butler and Andrei Manolescu, " <i>Atomistic Simulations of Methylammonium Lead Halide Layers on PbTiO₃ (001) Surfaces</i> ", J. Phys. Chem. C 121, 9096 (2017)	0	7	5,67	1,105	0,195	0,000
48	G. A. Nemnes* , Camelia Visan, A. Manolescu, " <i>Electronic and thermal conduction properties of halogenated porous graphene nanoribbons</i> ", J. Mater. Chem. C 5, 4435 (2017)	1	3	3,00	1,133	0,378	1,133
49	G. A. Nemnes* , Cristina Besleaga, Viorica Stancu, Daniela Emilia Dogaru, Lucia Nicoleta Leonat, L. Pintilie, K. Torfason, M. Ilkov, A. Manolescu, Ioana Pintilie, " <i>Normal and inverted hysteresis in perovskite solar</i>	1	10	6,67	1,105	0,166	1,105

	cells", J. Phys. Chem. C 121, 11207 (2017)						
50	S. I. Erlingsson*, A. Manolescu, G. A. Nemnes , J. H. Bardarson and D. Sanchez, "Reversal of thermoelectric current in tubular nanowires", Phys. Rev. Lett. 119, 036804 (2017)	0	5	5,00	3,190	0,638	0,000
51	G. A. Nemnes* , Sorina Iftimie, Alexandra Palici, Adela Nicolaev, T.L. Mitran, A. Radu, S. Antohe, "Optimization of the structural configuration of ICBA/P3HT photovoltaic cells", Appl. Surf. Sci. 424, 264 (2017)	1	7	5,67	0,627	0,111	0,627
52	Alexandra Palici, G. A. Nemnes* , Cristina Besleaga, L. Pintilie, D. V. Anghel, Ioana Pintilie, and A. Manolescu, "The Influence of the Relaxation Time on the Dynamic Hysteresis in Perovskite Solar Cells", EPJ Web of Conferences 173, 03017 (2018)	1	6	5,33	0,000	0,000	0,000
53	G. A. Nemnes* , T. L. Mitran and Daniela Dragoman, "Ballistic transport in graphene Y-junctions in transverse electric field", Nanotechnology 29, 355202 (2018)	1	3	3,00	0,791	0,264	0,791
54	G. A. Nemnes* , Cristina Besleaga, A. G. Tomulescu, Alexandra Palici, L. Pintilie, A. Manolescu and Ioana Pintilie, "How measurement protocols influence the dynamic J-V characteristics of perovskite solar cells: theory and experiment", Solar Energy 173, 976 (2018)	1	7	5,67	0,799	0,141	0,799
55	G. A. Nemnes* , T. L. Mitran, A. Manolescu and Daniela Dragoman, "Electric field effect in boron and nitrogen doped graphene bilayers", Comput. Mater. Sci. 155, 175 (2018)	1	4	4,00	0,648	0,162	0,648
56	G. A. Nemnes* , T.L. Mitran, A. Manolescu,	1	3	3,00	0,565	0,188	0,565

	"Gap prediction in hybrid graphene - hexagonal boron nitride nanoflakes using artificial neural networks", Journal of Nanomaterials 6960787 (2019)						
57	M. T. Sultan, A. Manolescu, J. T. Gudmundsson, K. Torfason, G. A. Nemnes , I. Stavarache, C. Logofatu, V. S. Teodorescu, M. L. Ciurea, H. G. Svavarsson, "Enhanced photoconductivity of SiGe nanocrystals in SiO2 driven by mild annealing", Appl. Surf. Sci. 469, 870 (2019)	0	10	6,67	0,627	0,094	0,000
58	G. A. Nemnes* , T. L. Mitran, A. Manolescu and Daniela Dragoman, "Electric and thermoelectric properties of graphene bilayers with extrinsic impurities under applied electric field", Physica B 561, 9 (2019)	1	4	4,00	0,280	0,070	0,280
59	G. A. Nemnes* and Daniela Dragoman, "Reconfigurable quantum logic gates using Rashba controlled spin polarized currents", Physica E 111, 13 (2019)	1	2	2,00	0,455	0,228	0,455
60	G. A. Nemnes* , Cristina Besleaga, A. G. Tomulescu, Lucia Nicoleta Leonat, Viorica Stancu, Mihaela Florea, A. Manolescu and Ioana Pintilie, "The hysteresis-free behavior of perovskite solar cells from the perspective of the measurement conditions ", J. Mater. Chem. C 7, 5267 (2019)	1	8	6,00	1,133	0,189	1,133
TOTAL						13.528	27.524

I = 13.528 (minim 4 pentru Abilitare/CS1/Prof.Univ.)

P = 27.524 (minim 4 pentru Abilitare/CS1/Prof.Univ.)

3. Recunoasterea impactului activitatii:

Nr. crt.	Articol	n	n _{eff}	C _i	C _i /n _{eff}
1	P.N. Racec*, E.R. Racec, G.A. Nemnes and U. Wulf, “Coherent leakage current in mesoscopic MIS-type capacitors”, Mater. Sci. Semicond. Process. 6, 129 (2003)	4	4,00	0	0,000
2	G.A. Nemnes , U. Wulf* and P.N. Racec, “Nanoscale transistors in the Landauer-Büttiker formalism”, J. Appl. Phys. 96, 596-604 (2004)	3	3,00	13	4,333
3	G.A. Nemnes , U. Wulf* and P.N. Racec, “Nonlinear I-V characteristics of nanotransistors in the Landauer-Büttiker formalism”, J. Appl. Phys. 98, 084308 (2005)	3	3,00	7	2,333
4	G.A. Nemnes* and K.H. Hoffmann, “Dynamically relevant structural properties of short-range spin glasses and disordered ferromagnets”, Phys. Rev. B 77, 172410 (2008)	2	2,00	0	0,000
5	G.A. Nemnes* and K.H. Hoffmann, “Spin-box algorithm for low temperature dynamics of short range disordered Ising spin systems”, Comp. Phys. Comm. 180, 1098 (2009)	2	2,00	2	1,000
6	G.A. Nemnes* , L. Ion and S. Antohe, “Self-consistent potentials and linear regime conductance of cylindrical nanowire transistors in the R-matrix formalism”, J. Appl. Phys. 106, 113714 (2009)	3	3,00	1	0,333
7	G.A. Nemnes* , U. Wulf, L. Ion and S. Antohe, “Ballistic transistors: From planar to cylindrical nanowire transistors”, Trends in nanophysics, Springer (2010), book chapter, ISBN 978-3-642-12069-5 (2010)	4	4,00	0	0,000
8	G.A. Nemnes* , L. Ion and S. Antohe, “Thermoelectrical properties of nanostructured ballistic nanowires in the R-matrix formalism using the Implicitly	3	3,00	2	0,667

	<i>Restarted Arnoldi Method</i> ”, Physica E 42, 1613 (2010)				
9	G.A. Nemnes* , D. V. Anghel, “ <i>Stochastic simulations for the time evolution of systems which obey generalized statistics: Fractional exclusion statistics and Gentile's statistics</i> ”, J. Stat. Mech. P09011 (2010)	2	2,00	3	1,500
10	L. Ion*, G.A. Nemnes , C. Visan, D.E.N. Brancus, S. Antohe, “ <i>Electron-optical phonon interaction in core-shell nanocolumn heterostructures made of wurtzite-type materials</i> ”, Dig. J. Nanomater. Biostruct. 6, 331 (2011)	5	5,00	0	0,000
11	C. Visan, T.L. Mitran, Adela Nicolaev, G.A. Nemnes , L. Ion, S. Antohe*, “ <i>Ab initio study of point-like defects influence on charge transport in AlN nanowires</i> ”, Dig. J. Nanomater. Biostruct. 6, 1173 (2011)	6	5,33	0	0,000
12	T.L. Mitran, Adela Nicolaev, G.A. Nemnes* , L. Ion, S. Antohe, “ <i>Ab initio vibrational and thermal properties of AlN nanowires under axial stress</i> ”, Comput. Mat. Sci. 50, 2955 (2011)	5	5,00	5	1,000
13	G.A. Nemnes* , “ <i>Spin current switching and spin-filtering effects in Mn-doped boron nitride nanoribbons</i> ”, J. Nanomater. 748639 (2012)	1	1,00	5	5,000
14	G.A. Nemnes* , A. Manolescu, V. Gudmundsson, “ <i>Reduction of ballistic spin scattering in a spin-FET using stray electric fields</i> ”, J. Phys.: Conf. Series 338, 012012 (2012)	3	3,00	1	0,333
15	Adela Nicolaev, T.L. Mitran, G.A. Nemnes , L. Ion*, S. Antohe, “ <i>Ab-initio investigation of point-like defects in AlN nanowires</i> ”, J. Phys.: Conf. Series 338, 012014 (2012)	5	5,00	0	0,000
16	G.A. Nemnes* , C. Visan, S. Antohe, “ <i>Thermopower of atomic-sized wurtzite AlN wires</i> ”, Physica E 44, 1092 (2012)	3	3,00	2	0,667
17	T.L. Mitran, Adela Nicolaev, G.A. Nemnes* , L. Ion, S.	5	5,00	6	1,200

	Antohe, “ <i>Magnetic behavior and clustering effects in Mn-doped boron nitride sheets</i> ”, J. Phys.: Condens. Matter 24, 326003 (2012)				
18	G.A. Nemnes* and D.V. Anghel, “ <i>Fractional exclusion statistics in systems with localized states</i> ”, J. Phys.: Conf. Series 410, 012120 (2013)	2	2,00	1	0,500
19	G.A. Nemnes* , “ <i>Spin filtering effects in wurtzite and graphite-like AlN nanowires with Mn impurities</i> ”, J. Nanomater. 408475 (2013)	1	1,00	2	2,000
20	D.V. Anghel*, G.A. Nemnes and F. Gulminelli, “ <i>Equivalence between fractional exclusion statistics and self-consistent mean-field theory in interacting particle systems in any number of dimensions</i> ”, Phys. Rev. E 88, 042150 (2013)	3	3,00	0	0,000
21	G.A. Nemnes* and C. Visan, “ <i>Ab initio investigation of spin-filter effects in GaN nanowires with transitional metal impurities</i> ”, Eur. Phys. J. Plus 128, 131 (2013)	2	2,00	0	0,000
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TOTAL					63.475

C = 63.475 (minim 40 pentru Abilitare/CS1/Prof.Univ.)

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Author(s): Mattoni, A (Mattoni, Alessandro); Filippetti, A (Filippetti, Alessio); Caddeo, C (Caddeo, Claudia)

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Author(s): Yaffe, O (Yaffe, Omer); Guo, YS (Guo, Yinsheng); Tan, LZ (Tan, Liang Z.); Egger, DA (Egger, David A.); Hull, T (Hull, Trevor); Stoumpos, CC (Stoumpos, Constantinos C.); Zheng, F (Zheng, Fan); Heinz, TF (Heinz, Tony F.); Kronik, L (Kronik, Leor); Kanatzidis, MG (Kanatzidis, Mercouri G.); Owen, JS (Owen, Jonathan S.); Rappe, AM (Rappe, Andrew M.); Pimenta, MA (Pimenta, Marcos A.); Brus, LE (Brus, Louis E.)

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Author(s): Tan, LZ (Tan, Liang Z.); Zheng, F (Zheng, Fan); Rappe, AM (Rappe, Andrew M.)

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Author(s): Bi, FZ (Bi, Fuzhen); Markov, S (Markov, Stanislav); Wang, RL (Wang, Rulin); Kwok, YH (Kwok, YanHo); Zhou, WJ (Zhou, Weijun); Liu, LM (Liu, Limin); Zheng, X (Zheng, Xiao); Chen, GH (Chen, GuanHua); Yam, CY (Yam, ChiYung)

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Author(s): Bi, FZ (Bi, Fuzhen); Markov, S (Markov, Stanislav); Wang, RL (Wang, Rulin); Kwok, YH (Kwok, YanHo); Zhou, WJ (Zhou, Weijun); Liu, LM (Liu, Limin); Zheng, X (Zheng, Xiao); Chen, GH (Chen, GuanHua); Yam, CY (Yam, ChiYung)

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Author(s): Kanno, S (Kanno, Shohei); Imamura, Y (Imamura, Yutaka); Saeki, A (Saeki, Akinori); Hada, M (Hada, Masahiko)

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Author(s): Govinda, S (Govinda, Sharada); Kore, BP (Kore, Bhushan P.); Bokdam, M (Bokdam, Menno); Mahale, P (Mahale, Pratibha); Kumar, A (Kumar, Abhinav); Pal, S (Pal, Somnath); Bhattacharyya, B (Bhattacharyya, Biswajit); Lahnsteiner, J (Lahnsteiner, Jonathan); Kresse, G (Kresse, Georg); Franchini, C (Franchini, Cesare); Pandey, A (Pandey, Anshu); Sarma, DD (Sarma, D. D.)

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<p>3. Title: High-performance direct conversion X-ray detectors based on sintered hybrid lead triiodide perovskite wafers Author(s): Shrestha, S (Shrestha, Shreetu); Fischer, R (Fischer, Rene); Matt, GJ (Matt, Gebhard J.); Feldner, P (Feldner, Patrick); Michel, T (Michel, Thilo); Osvet, A (Osvet, Andres); Levchuk, I (Levchuk, Ievgen); Merle, B (Merle, Benoit); Golkar, S (Golkar, Saeedeh); Chen, HW (Chen, Haiwei); Tedde, SF (Tedde, Sandro F.); Schmidt, O (Schmidt, Oliver); Hock, R (Hock, Rainer); Ruhrig, M (Ruehrig, Manfred); Goken, M (Goeken, Mathias); Heiss, W (Heiss, Wolfgang); Anton, G (Anton, Gisela); Brabec, CJ (Brabec, Christoph J.) Source: NATURE PHOTONICS Volume: 11 Issue: 7 Pages: 436-+ DOI: 10.1038/NPHOTON.2017.94 Published: JUL 2017</p>
<p>4. Title: Self-Encapsulating Thermostable and Air-Resilient Semitransparent Perovskite Solar Cells Author(s): Zhao, J (Zhao, J.); Brinkmann, KO (Brinkmann, K. O.); Hu, T (Hu, T.); Pourdavoud, N (Pourdavoud, N.); Becker, T (Becker, T.); Gahlmann, T (Gahlmann, T.); Heiderhoff, R (Heiderhoff, R.); Polywka, A (Polywka, A.); Gorn, P (Goern, P.); Chen, Y (Chen, Y.); Cheng, B (Cheng, B.); Riedl, T (Riedl, T.) Source: ADVANCED ENERGY MATERIALS Volume: 7 Issue: 14 Article Number: 1602599 DOI: 10.1002/aenm.201602599 Published: JUL 19 2017</p>
<p>5. Title: Contact Engineering: Electrode Materials for Highly Efficient and Stable Perovskite Solar Cells Author(s): Xiao, JW (Xiao, Jia-Wen); Shi, CB (Shi, Congbo); Zhou, CX (Zhou, Chenxiao); Zhang, DL (Zhang, Deliang); Li, YJ (Li, Yujing); Chen, Q (Chen, Qi) Source: SOLAR RRL Volume: 1 Issue: 9 Article Number: UNSP 1700082 DOI: 10.1002/solr.201700082 Published: SEP 2017</p>
<p>6. Title: Constructing Efficient and Stable Perovskite Solar Cells via Interconnecting Perovskite Grains Author(s): Hou, X (Hou, Xian); Huang, SM (Huang, Sumei); Wei, OY (Wei Ou-Yang); Pan, LK (Pan, Likun); Sun, Z (Sun, Zhuo); Chen, XH (Chen, Xiaohong) Source: ACS APPLIED MATERIALS & INTERFACES Volume: 9 Issue: 40 Pages: 35200-35208 DOI: 10.1021/acsami.7b08488 Published: OCT 11 2017</p>
<p>7. Title: Effect of Electron-Transport Material on Light-Induced Degradation of Inverted Planar Junction Perovskite Solar Cells Author(s): Akbulatov, AF (Akbulatov, Azat F.); Frolova, LA (Frolova, Lyubov A.); Griffin, MP (Griffin, Monroe P.); Gearba, IR (Gearba, Ioana R.); Dolocan, A (Dolocan, Andrei); Vanden Bout, DA (Vanden Bout, David A.); Tsarev, S (Tsarev, Sergey); Katz, EA (Katz, Eugene A.); Shestakov, AF (Shestakov, Alexander F.); Stevenson, KJ (Stevenson, Keith J.); Troshin, PA (Troshin, Pavel A.) Source: ADVANCED ENERGY MATERIALS Volume: 7 Issue: 19 Article Number: 1700476 DOI: 10.1002/aenm.201700476 Published: OCT 11 2017</p>

<p>8. Title: Thin-film formation of 2D MoS₂ and its application as a hole-transport layer in planar perovskite solar cells Author(s): Dasgupta, U (Dasgupta, Uttiya); Chatterjee, S (Chatterjee, Soumyo); Pal, AJ (Pal, Amlan J.) Source: SOLAR ENERGY MATERIALS AND SOLAR CELLS Volume: 172 Pages: 353-360 DOI: 10.1016/j.solmat.2017.08.012 Published: DEC 2017</p>
<p>9. Title: Synergistic effect of caprolactam as lewis base and interface engineering for efficient and stable planar perovskite solar cells Author(s): Li, HS (Li, Hongshi); Li, YS (Li, Yusheng); Li, YM (Li, Yiming); Shi, JJ (Shi, Jiangjian); Zhang, HY (Zhang, Huiyin); Xu, X (Xu, Xin); Wu, JH (Wu, Jionghua); Wu, HJ (Wu, Huijue); Luo, YH (Luo, Yanhong); Li, DM (Li, Dongmei); Meng, QB (Meng, Qingbo) Source: NANO ENERGY Volume: 42 Pages: 222-231 DOI: 10.1016/j.nanoen.2017.10.048 Published: DEC 2017</p>
<p>10. Title: Properties of perovskite ferroelectrics deposited on F doped SnO₂ electrodes and the prospect of their integration into perovskite solar cells Author(s): Pintilie, I (Pintilie, I.); Stancu, V (Stancu, V.); Tomulescu, A (Tomulescu, A.); Radu, R (Radu, R.); Stan, CB (Stan, C. Besleaga); Trinca, L (Trinca, L.); Pintilie, L (Pintilie, L.) Source: MATERIALS & DESIGN Volume: 135 Pages: 112-121 DOI: 10.1016/j.matdes.2017.09.013 Published: DEC 5 2017</p>
<p>11. Title: Improving the moisture stability of perovskite solar cells by using PMMA/P3HT based hole-transport layers Author(s): Kundu, S (Kundu, Soumya); Kelly, TL (Kelly, Timothy L.) Source: MATERIALS CHEMISTRY FRONTIERS Volume: 2 Issue: 1 Pages: 81-89 DOI: 10.1039/c7qm00396j Published: JAN 1 2018</p>
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<p>13. Title: Room-temperature fabrication of a delafossite CuCrO₂ hole transport layer for perovskite solar cells Author(s): Dunlap-Shohl, WA (Dunlap-Shohl, Wiley A.); Daunis, TB (Daunis, Trey B.); Wang, XM (Wang, Xiaoming); Wang, J (Wang, Jian); Zhang, BY (Zhang, Boya); Barrera, D (Barrera, Diego); Yan, YF (Yan, Yanfa); Hsu, JWP (Hsu, Julia W. P.); Mitzi, DB (Mitzi, David B.) Source: JOURNAL OF MATERIALS CHEMISTRY A Volume: 6 Issue: 2 Pages: 469-477 DOI: 10.1039/c7ta09494a Published: JAN 14 2018</p>
<p>14. Title: Light-induced reactivity of gold and hybrid perovskite as a new possible degradation mechanism in perovskite solar cells Author(s): Shlenskaya, NN (Shlenskaya, Natalia N.); Belich, NA (Belich, Nikolai A.); Gratzel, M (Gratzel, Michael); Goodilin, EA (Goodilin, Eugene A.); Tarasov, AB (Tarasov, Alexey B.) Source: JOURNAL OF MATERIALS CHEMISTRY A Volume: 6 Issue: 4 Pages: 1780-1786 DOI: 10.1039/c7ta10217h Published: JAN 28 2018</p>
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<p>Layers Author(s): Tessler, N (Tessler, Nir); Vaynzof, Y (Vaynzof, Yana) Source: ACS APPLIED ENERGY MATERIALS Volume: 1 Issue: 2 Pages: 676-683 DOI: 10.1021/acsaem.7b00176 Published: FEB 2018</p>
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<p>18. Title: Octadecylamine-Functionalized Single-Walled Carbon Nanotubes for Facilitating the Formation of a Monolithic Perovskite Layer and Stable Solar Cells Author(s): Tiong, VT (Tiong, Vincent Tiing); Pham, ND (Ngoc Duy Pham); Wang, T (Wang, Teng); Zhu, TX (Zhu, Tianxiang); Zhao, XL (Zhao, Xinluo); Zhang, YH (Zhang, Yaohong); Shen, Q (Shen, Qing); Bell, J (Bell, John); Hu, LH (Hu, Linhua); Dai, SY (Dai, Songyuan); Wang, HX (Wang, Hongxia) Source: ADVANCED FUNCTIONAL MATERIALS Volume: 28 Issue: 10 Article Number: 1705545 DOI: 10.1002/adfm.201705545 Published: MAR 7 2018</p>
<p>19. Title: All-Solution-Processed Silver Nanowire Window Electrode-Based Flexible Perovskite Solar Cells Enabled with Amorphous Metal Oxide Protection Author(s): Lee, E (Lee, Eunsong); Ahn, J (Ahn, Jihoon); Kwon, HC (Kwon, Hyeok-Chan); Ma, S (Ma, Sunihl); Kim, K (Kim, Kyungmi); Yun, S (Yun, Seongcheol); Moon, J (Moon, Jooho) Source: ADVANCED ENERGY MATERIALS Volume: 8 Issue: 9 Article Number: 1702182 DOI: 10.1002/aenm.201702182 Published: MAR 26 2018</p>
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MD (McGehee, Michael D.)

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Author(s): Zhang, H (Zhang, Hao); Wu, YZ (Wu, Yongzhen); Zhang, WW (Zhang, Weiwei); Li, EP (Li, Erpeng); Shen, C (Shen, Chao); Jiang, HY (Jiang, Huiyun); Tian, H (Tian, He); Zhu, WH (Zhu, Wei-Hong)

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Author(s): Sharma, A (Sharma, Ashish); Rath, AK (Rath, Arup K.)

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Author(s): Gong, J (Gong, Jue); Yang, MJ (Yang, Mengjin); Rebolgar, D (Rebolgar, Dominic); Rucinski, J (Rucinski, Jordan); Liveris, Z (Liveris, Zachary); Zhu, K (Zhu, Kai); Xu, T (Xu, Tao)

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Author(s): Wang, KH (Wang, Kun-Hua); Zhu, BS (Zhu, Bai-Sheng); Yao, JS (Yao, Ji-Song); Yao, HB (Yao, Hong-Bin)

Source: SCIENCE CHINA-CHEMISTRY Volume: 61 Issue: 9 Special Issue: SI Pages: 1047-1061 DOI: 10.1007/s11426-018-9325-7 Published: SEP 2018

27. Title: Effects of Moisture-Based Grain Boundary Passivation on Cell Performance and Ionic Migration in Organic-Inorganic Halide Perovskite Solar Cells

Author(s): Hoque, MNF (Hoque, Md Nadim Ferdous); He, R (He, Rui); Warzywoda, J (Warzywoda, Juliusz); Fan, ZY (Fan, Zhaoyang)

Source: ACS APPLIED MATERIALS & INTERFACES Volume: 10 Issue: 36 Pages: 30322-30329 DOI: 10.1021/acsaami.8b08981 Published: SEP 12 2018

28. Title: Efficiently Improving the Stability of Inverted Perovskite Solar Cells by Employing Polyethylenimine-Modified Carbon Nanotubes as Electrodes

Author(s): Zhou, Y (Zhou, Yu); Yin, XW (Yin, Xuewen); Luo, Q (Luo, Qiang); Zhao, XY (Zhao, Xingyue); Zhou, DL (Zhou, Duanliang); Han, JH (Han, Jianhua); Hao, F (Hao, Feng); Tai, MQ (Tai, Meiqian); Li, JB (Li, Jianbao); Liu, P (Liu, Peng); Jiang, KL (Jiang, Kaili); Lin, H (Lin, Hong)

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Author(s): Liang, LS (Liang, Lusheng); Cai, Y (Cai, Yu); Li, X (Li, Xin); Nazeeruddin, MK (Nazeeruddin, Mohammad Khaja); Gao, P (Gao, Peng)

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Published: OCT 2018

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Author(s): Wu, F (Wu, Fan); Pathak, R (Pathak, Rajesh); Chen, K (Chen, Ke); Wang, GQ (Wang, Guiqiang); Bahrami, B (Bahrami, Behzad); Zhang, WH (Zhang, Wen-Hua); Qiao, QQ (Qiao, Qiquan)

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Author(s): Jena, AK (Jena, Ajay Kumar); Kulkarni, A (Kulkarni, Ashish); Sanehira, Y (Sanehira, Yoshitaka); Ikegami, M (Ikegami, Masashi); Miyasaka, T (Miyasaka, Tsutomu)

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Author(s): Cho, H (Cho, Himchan); Kim, YH (Kim, Young-Hoon); Wolf, C (Wolf, Christoph); Lee, HD (Lee, Hyeon-Dong); Lee, TW (Lee, Tae-Woo)

Source: ADVANCED MATERIALS Volume: 30 Issue: 42 Special Issue: SI Article Number: 1704587 DOI: 10.1002/adma.201704587 Published: OCT 18 2018

33. Title: Graphdiyne-Based Bulk Heterojunction for Efficient and Moisture-Stable Planar Perovskite Solar Cells

Author(s): Li, HS (Li, Hongshi); Zhang, R (Zhang, Rui); Li, YS (Li, Yusheng); Li, YM (Li, Yiming); Liu, HB (Liu, Huibiao); Shi, JJ (Shi, Jiangjian); Zhang, HY (Zhang, Huiyin); Wu, HJ (Wu, Huijue); Luo, YH (Luo, Yanhong); Li, DM (Li, Dongmei); Li, YL (Li, Yuliang); Meng, QB (Meng, Qingbo)

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34. Title: Highly efficient and humidity stable perovskite solar cells achieved by introducing perovskite-like metal formate material as the nanocrystal scaffold

Author(s): Liu, GZ (Liu, Guozhen); Zhu, LZ (Zhu, Liangzheng); Zheng, HY (Zheng, Haiying); Xu, XX (Xu, Xiaoxiao); Alsaedi, A (Alsaedi, Ahmed); Hayat, T (Hayat, Tasawar); Pan, X (Pan, Xu); Dai, SY (Dai, Songyuan)

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35. Title: Impact of Moisture on Photoexcited Charge Carrier Dynamics in Methylammonium Lead Halide Perovskites

Author(s): Song, ZN (Song, Zhaoning); Shrestha, N (Shrestha, Niraj); Wathage, SC (Wathage, Suneth C.); Liyanage, GK (Liyanage, Geethika K.); Almutawah, ZS (Almutawah, Zahrah S.); Ahangharnejhad, RH (Ahangharnejhad, Ramez H.); Phillips, AB (Phillips, Adam B.); Ellingson, RJ (Ellingson, Randy J.); Heben, MJ (Heben, Michael J.)

Source: JOURNAL OF PHYSICAL CHEMISTRY LETTERS Volume: 9 Issue: 21 Pages: 6312-6320 DOI: 10.1021/acs.jpcllett.8b02595 Published: NOV 1 2018

36. Title: Charge carrier transport in polycrystalline CH₃NH₃PbI₃ perovskite thin films in a lateral direction characterized by time-of-flight photoconductivity

Author(s): Emin, S (Emin, S.); Pavlica, E (Pavlica, E.); Okuyucu, H (Okuyucu, H.); Valant, M (Valant, M.); Bratina, G (Bratina, G.)

Source: MATERIALS CHEMISTRY AND PHYSICS Volume: 220 Pages: 182-189 DOI:

10.1016/j.matchemphys.2018.08.012 Published: DEC 1 2018
<p>37. Title: Fabrication of fully non-vacuum processed perovskite solar cells using an inorganic CuSCN hole-transporting material and carbon-back contact Author(s): Baranwal, AK (Baranwal, Ajay K.); Kanda, H (Kanda, Hiroyuki); Shibayama, N (Shibayama, Naoyuki); Ito, S (Ito, Seigo) Source: SUSTAINABLE ENERGY & FUELS Volume: 2 Issue: 12 Pages: 2778-2787 DOI: 10.1039/c8se00450a Published: DEC 1 2018</p>
<p>38. Title: Perovskite-polymer composite cross-linker approach for highly-stable and efficient perovskite solar cells Author(s): Han, TH (Han, Tae-Hee); Lee, JW (Lee, Jin-Wook); Choi, C (Choi, Chungseok); Tan, S (Tan, Shaun); Lee, C (Lee, Changsoo); Zhao, YP (Zhao, Yepin); Dai, ZH (Dai, Zhenghong); De Marco, N (De Marco, Nicholas); Lee, SJ (Lee, Sung-Joon); Bae, SH (Bae, Sang-Hoon); Yuan, YH (Yuan, Yonghai); Lee, HM (Lee, Hyuck Mo); Huang, Y (Huang, Yu); Yang, Y (Yang, Yang) Source: NATURE COMMUNICATIONS Volume: 10 Article Number: 520 DOI: 10.1038/s41467-019-08455-z Published: JAN 31 2019</p>
<p>39. Title: Thermal Degradation Analysis of Sealed Perovskite Solar Cell with Porous Carbon Electrode at 100 degrees C for 7000 h Author(s): Baranwal, AK (Baranwal, Ajay K.); Kanda, H (Kanda, Hiroyuki); Shibayama, N (Shibayama, Naoyuki); Masutani, H (Masutani, Hideaki); Peiris, TAN (Peiris, T. A. Nirmal); Kanaya, S (Kanaya, Shusaku); Segawa, H (Segawa, Hiroshi); Miyasaka, T (Miyasaka, Tsutomu); Ito, S (Ito, Seigo) Source: ENERGY TECHNOLOGY Volume: 7 Issue: 2 Pages: 245-252 DOI: 10.1002/ente.201800572 Published: FEB 2019</p>
<p>40. Title: Bias-dependent degradation of various solar cells: lessons for stability of perovskite photovoltaics Author(s): Khenkin, MV (Khenkin, Mark V.); Anoop, KM (Anoop, K. M.); Katz, EA (Katz, Eugene A.); Visoly-Fisher, I (Visoly-Fisher, Iris) Source: ENERGY & ENVIRONMENTAL SCIENCE Volume: 12 Issue: 2 Pages: 550-558 DOI: 10.1039/c8ee03475c Published: FEB 1 2019</p>
<p>41. Title: Unraveling the Impacts Induced by Organic and Inorganic Hole Transport Layers in Inverted Halide Perovskite Solar Cells Author(s): Khadka, DB (Khadka, Dhruba B.); Shirai, Y (Shirai, Yasuhiro); Yanagida, M (Yanagida, Masatoshi); Miyano, K (Miyano, Kenjiro) Source: ACS APPLIED MATERIALS & INTERFACES Volume: 11 Issue: 7 Pages: 7055-7065 DOI: 10.1021/acsami.8b20924 Published: FEB 20 2019</p>
<p>42. Title: Comprehensive Elucidation of Ion Transport and Its Relation to Hysteresis in Methylammonium Lead Iodide Perovskite Thin Films Author(s): Khassaf, H (Khassaf, Hamidreza); Yadavalli, SK (Yadavalli, Srinivas K.); Game, OS (Game, Onkar S.); Zhou, YY (Zhou, Yuanyuan); Padture, NP (Padture, Nitin P.); Kingon, AI (Kingon, Angus I.) Source: JOURNAL OF PHYSICAL CHEMISTRY C Volume: 123 Issue: 7 Pages: 4029-4034 DOI: 10.1021/acs.jpcc.8b11285 Published: FEB 21 2019</p>
<p>43. Title: Understanding Degradation Mechanisms and Improving Stability of Perovskite Photovoltaics Author(s): Boyd, CC (Boyd, Caleb C.); Cheacharoen, R (Cheacharoen, Rongrong); Leijtens, T (Leijtens, Tomas); McGehee, MD (McGehee, Michael D.)</p>

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	<p>45. Title: Organic interfacial materials for perovskite-based optoelectronic devices Author(s): Pham, HD (Hong Duc Pham); Li, XQ (Li Xianqiang); Li, WH (Li, Wenhui); Manzhos, S (Manzhos, Sergei); Kyaw, AKK (Kyaw, Aung Ko Ko); Sonar, P (Sonar, Prashant) Source: ENERGY & ENVIRONMENTAL SCIENCE Volume: 12 Issue: 4 Pages: 1177-1209 DOI: 10.1039/c8ee02744g Published: APR 1 2019</p>
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Author(s): Pham, ND (Ngoc Duy Pham); Zhang, CM (Zhang, Chunmei); Tiong, VT (Tiong, Vincent Tiing); Zhang, SL (Zhang, Shengli); Will, G (Will, Geoffrey); Bou, A (Bou, Agustin); Bisquert, J (Bisquert, Juan); Shaw, PE (Shaw, Paul E.); Du, AJ (Du, Aijun); Wilson, GJ (Wilson, Gregory J.); Wang, HX (Wang, Hongxia)

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Author(s): Chouhan, AS (Chouhan, Arun Singh); Jasti, NP (Jasti, Naga Prathibha); Avasthi, S (Avasthi, Sushobhan)

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Author(s): Samu, GF (Samu, Gergely F.); Scheidt, RA (Scheidt, Rebecca A.); Balog, A (Balog, Adam); Janaky, C (Janaky, Csaba); Kamat, PV (Kamat, Prashant V.)

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Author(s): Liu, PY (Liu, Pengyun); Wang, W (Wang, Wei); Liu, SM (Liu, Shaomin); Yang, HG (Yang, Huagui); Shao, ZP (Shao, Zongping)

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C = 63.475 (minim 40 pentru Abilitare/CS1/Prof.Univ.)

Indicele Hirsch h = 11 (minim 10 pentru Abilitare/CS1/Prof.Univ.)

Punctaj CNATDCU:

$$\begin{aligned} T &= A + P/2 + I/2 + C/20 + h/5 \\ &= 2.503 + 27.524/2 + 13.528/2 + 63.475/20 + 11/5 \\ &= 28.402 \end{aligned}$$

$$T = 28.402 \quad (\text{minim } 12 \text{ pentru Abilitare/CS1/Prof.Univ.})$$