

Productia stiintifica a Facultatii de Fizica in ANUL 2017

(Jurnale indexate ISI in zona rosie, zona galbena, zona alba)

1.	2017	Sporea, Ciprian A., <i>Scattering of massless fermions by Schwarzschild and Reissner-Nordstrom black holes</i> , Chinese Physics C Volume: 41 Issue: 12 Article Number: UNSP 123101 Published: DEC 2017 http://iopscience.iop.org/article/10.1088/1674-1137/41/12/123101
2.	2017	Daniela Susan-Resiga, L. Vékás, <i>Ferrofluid based composite fluids: Magnetorheological properties correlated by Mason and Casson numbers</i> , Journal of Rheology 61(3), 2017, pg. 401-408, Doi: 10.1122/1.4977713. Factor de impact: 3.136. ISSN: 0148-6055, https://sor.scitation.org/doi/abs/10.1122/1.4977713?journalCode=jor
3.	2017	Brabec M, Paulescu M, Badescu V. <i>Statistical properties of clear and dark duration lengths</i> . Solar Energy 153: 508-518 Published: SEP 1 2017 https://www.sciencedirect.com/science/article/pii/S0038092X17305042
4.	2017	Paulescu M, Brabec M, Boata R, Badescu V. <i>Structured, physically inspired (gray box) models versus black box modeling for forecasting the output power of photovoltaic plants</i> . Energy 121: 792-802 Published: FEB 15 2017 https://www.sciencedirect.com/science/article/pii/S0360544217300154
5.	2017	Wolfram Miller, Alexandra Popescu - <i>Micro structures in the grain evolution during solidification of silicon: Phase field calculations</i> , Acta Materialia , Volume: 140 Pages: 1-9, Published: NOV 2017; https://www.sciencedirect.com/science/article/pii/S1359645417306791
6.	2017	Crucean, Cosmin; Baloi, Mihaela-Andreea, Reply to "Comment on 'Fermion production in a magnetic field in a de Sitter universe'", Physical Review D Volume: 95 Issue: 4 Article Number: 048502 Published: FEB 28 2017, https://journals.aps.org/prd/abstract/10.1103/PhysRevD.95.048502
7.	2017	V. E. Ambruș, <i>Quantum non-equilibrium effects in rigidly-rotating thermal states</i> , Phys. Lett. B 771 (2017) 151-156; WOS: 000406183300021; https://dx.doi.org/10.1016/j.physletb.2017.05.038
8.	2017	V. E. Ambruș, E. Winstanley, <i>Thermal expectation values of fermions on anti-de Sitter space-time</i> , Class. Quant. Grav. 34 (2017) 145010; WOS: 000404534100003; https://dx.doi.org/10.1088/1361-6382/aa7863
9.	2017	I. Bica, E.M. Anitas, L Chirigiu, <i>Magnetic field intensity effect on plane capacitors based on hybrid magnetorheological elastomers with graphene nanoparticles</i> , Journal of Industrial and Engineering Chemistry 56, (2017) 407-412;
10.	2017	I. Bica, E.M. Anitas, <i>Magnetic field intensity and graphene concentration effects on electrical and rheological properties of MREs-based membranes</i> , Smart Materials and Structures 26 (2017), 105038;
11.	2017	M Bunoiu, J Neamtu, L Chirigiu, M Bălăsoiu, G Pascu, I Bica, LME Chirigiu, <i>Hybrid Magnetorheological Elastomers: Effects of the magnetic field on some electrical properties</i> , Applied Surface Science , 424, (2017), 282-289;
12.	2017	Cotaescu, Ion I. , <i>Physical meaning of the conserved quantities on anti-de Sitter geodesics</i> , Physical Review D Volume: 95 Issue: 10 Article Number: 104051 Published: MAY 30 2017.
13.	2017	Cotaescu, Ion I. <i>Rest frames and relativistic effects on de Sitter spacetimes</i> , European Physical Journal C Volume: 77 Issue: 7 Article Number: 485 Published: JUL 20 2017
14.	2017	Cotaescu, Ion I. <i>Anti-de Sitter relativity</i> , Physical Review D Volume: 96 Issue: 4 Article Number: 044046 Published: AUG 30 2017

15.	2017	M. Stoia; P. Barvinschi; L. Barbu-Tudoran; O.M. Bunoiu, <i>Influence of polyols on the formation of nanocrystalline nickel ferrite inside silica matrices</i> , Journal of Crystal Growth , 457, 2017, p. 294-301; https://doi.org/10.1016/j.jcrysgro.2016.05.034
16.	2017	P. Barvinschi; O.M. Bunoiu, <i>A Finite Element Method Model To Simulate The Thermal Response Of Vascularized Tissue To Laser Irradiation</i> , Romanian Reports In Physics , 69(2), 2017, Article Number: 610; http://www.rrp.infim.ro/IP/AN610.pdf
17.	2017	M. Paulescu, N. Pop, N. Stefu , E. Paulescu, R. Boata, D. Calinoiu, <i>Seasonal Modeling of Hourly Solar Irradiation Series</i> , Romanian Journal of Physics , Vol.62, Issue: 7-8, 2017, www.nipne.ro/rjp/2017_62_7-8/RomJPhys.62.813.pdf
18.	2017	M. Lungu, N. Stefu, <i>Study on particulate matter dispersion by correlating direct measurements with numerical simulations. Case study: Timisoara urban area</i> , International Journal of Environmental Science and Technology , (2017), https://link.springer.com/article/10.1007/s13762-017-1521-x
19.	2017	P. C. Fannin, L. Vekas, C. N. Marin, I. Malaescu, <i>On the determination of the dynamic properties of a transformer oil based ferrofluid in the frequency range 0.1–20 GHz</i> , Journal of Magnetism and Magnetic Materials , 423 (2017) 61-65, https://www.sciencedirect.com/science/article/pii/S0304885316315281
20.	2017	P.C. Fannin, C.N. Marin, I. Malaescu, K. Raj, C. Popoiu, <i>Local arrangement of particles in magnetic fluids due to the measurement alternating field</i> , Journal of Magnetism and Magnetic Materials , 438, (2017) 116-120, https://www.sciencedirect.com/science/article/pii/S0304885316332668
21.	2017	Popescu Alexandra, Stelian Arjoca, Daniel Vizman - <i>Numerical Study of Electromagnetic Stirring in a Cylindrical Configuration for Directional Solidification of Multi-Crystalline Silicon</i> , Romanian Journal Of Physics , Volume: 62 Issue: 9-10, Article Number: 608, Published: 2017; http://www.nipne.ro/rjp/2017_62_9-10/RomJPhys.62.608.pdf
22.	2017	Popescu Alexandra, Daniel Vizman - <i>Numerical study of the influence of forced melt convection on the impurities transport in a silicon directional solidification process</i> , Journal Of Crystal Growth , Volume: 474 Pages: 55-60, Published: SEP 15 2017; https://www.sciencedirect.com/science/article/pii/S0022024816308429
23.	2017	Baloi Mihaela-Andreea, Crucean Cosmin, <i>Fermion production by a dependent of time electric field in de Sitter universe</i> , International Journal Of Modern Physics A Volume: 32 Issue: 36 Special Issue: SI Article Number: 1750208 Published: DEC 2017 https://www.worldscientific.com/doi/abs/10.1142/S0217751X17502086
24.	2017	V. Chernyshev, V.Petrov, A.Nikiforov, P.Agzamova, N.M.Avram, <i>Elastic properties of rare earth pyrochlores R₂Ti₂O₇(R=Gd,Tb,Dy,Ho,Er,Tm,Yb,Lu):ab initio calculations</i> , Optical Materials , 72(2017)565-570, https://www.sciencedirect.com/science/article/pii/S0925346717304408
25.	2017	M Balasoiu, VT Lebedev, YL Raikher, I Bica, M Bunoiu, <i>The implicit effect of texturizing field on the elastic properties of magnetic elastomers revealed by SANS</i> , Journal of Magnetism and Magnetic Materials 431, (2017)126-129;

26.	2017	N Stefu, M Paulescu, P Gravila, E Paulescu, N Pop, R Boata, <i>Model For The Uv Biologically Effective Dose And Application Under Future Climate Conditions</i> , Environmental Engineering and Management Journal , (2017), Vol.17, No. 1, 225-234, www.eemj.icpm.tuiasi.ro/pdfs/vol16/no1/24_110_Stefu_13.pdf
27.	2017	M Bunoiu, EM Anitas, J Neamtu, I Bica, L CHIRIGIU, LME Chirigiu, <i>Generation of Iron Nanoparticles for Bio-medical Applications Using Plasma Processes</i> , Revista de Chimie , 68 (2017), 1205-1210
28.	2017	Cotaescu, Ion I., <i>de Sitter geodesics</i> , Modern Physics Letters A Volume: Issue: 40 Article Number: 1750223 Published: DEC 28 2017

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1.	2017	Marius Paulescu, Daniel Vizman, Mihaela Lascu, Radu Negrila, Marius Stef , AIP Conference Proceedings 1796, 040010, 2017, http://aip.scitation.org/doi/abs/10.1063/1.4972388
2.	2017	Lungu M., Lungu A., Stefu N. , Neculae A., Strambeanu N., “ <i>Analysis of airborne particulate matter pollution in Timisoara city urban area and correlations between measurements and meteorological data</i> ”, AIP Conference Proceedings , 1796,040011 (2017) https://aip.scitation.org/doi/abs/10.1063/1.4972389
3.	2017	Paulescu, E., Iman, V., Dughir, C., Stefu, N. , Paulescu, M., “ <i>A simplified but accurate UV index model</i> ”, AIP Conference Proceedings , 1916,040010, (2017) https://aip.scitation.org/doi/abs/10.1063/1.5017449
4.	2017	Bojin S. Paulescu M, Badescu V. Assessment of Different Models for Computing the Probability of a Clear Line of Sight. Edited by: Vizman, D; Popescu, A TIM17 PHYSICS CONFERENCE Book Series: AIP Conference Proceedings Volume: 1916 Article Number: UNSP 040014 Published: 2017
5.	2017	Paulescu E, Iman V, Dughir C, Stefu N, Paulescu M. A Simplified but Accurate UV Index Model. TIM17 PHYSICS CONFERENCE Book Series: AIP Conference Proceedings Volume: 1916 Article Number: UNSP 040010 Published: 2017 https://aip.scitation.org/doi/abs/10.1063/1.5017449
6.	2017	Sabadus A, Mihailtchi V, Paulescu M, Parameters Extraction for the One-Diode Model of a Solar Cell. TIM17 PHYSICS CONFERENCE Book Series: AIP Conference Proceedings Volume: 1916 Article Number: UNSP 040005 Published: 2017 https://aip.scitation.org/doi/abs/10.1063/1.5017444
7.	2017	Balaj, Ciprian I.; Man, Teodor E.; Paulescu, Marius. Performance Assessment of a Direct-Coupled PV Water Pumping System. TIM15-16 PHYSICS CONFERENCE Book Series: AIP Conference Proceedings Volume: 1796 Article Number: UNSP 040012 Published: 2017 https://aip.scitation.org/doi/abs/10.1063/1.4972390
8.	2017	Paulescu M, Vizman D, Lascu M, Negrila R, Stef M. Experimental Study of Proton Irradiation Effect on Silicon Solar Cells. TIM15-16 PHYSICS CONFERENCE Book Series: AIP Conference Proceedings Volume: 1796 Article Number: UNSP 040010-1 Published: 2017 https://aip.scitation.org/doi/abs/10.1063/1.4972388
9.	2017	Dragos Tatomirescu, Alexandra Popescu, Emmanuel d'Humieres, Daniel Vizman - Numerical Simulation of Laser Ion Acceleration at Ultra High Intensity, TIM15-16 PHYSICS CONFERENCE, Book Series: AIP Conference Proceedings, Volume: 1796, Article Number: UNSP 020013, Published: 2017; https://aip.scitation.org/doi/pdf/10.1063/1.4972361
10.	2017	V. E. Ambruş, Anderson-Witting Transport Coefficients for Flows in General Relativity, AIP Conf. Proc. 1796 (2017) 020006; WOS:000404285900006; https://dx.doi.org/10.1063/1.4972354
11.	2017	S. Busuioc, V. E. Ambruş, V. Sofonea, Lattice Boltzmann Simulation of Droplet Formation in T-junction Geometries, AIP Conf. Proc. 1796 (2017) 020009; WOS:000404285900009; https://dx.doi.org/10.1063/1.4972357
12.	2017	R. Blaga, V. E. Ambruş, Quadrature-based Lattice Boltzmann Model for Relativistic Flows, AIP Conf. Proc. 1796 (2017) 020010; WOS: 000404285900010; https://dx.doi.org/10.1063/1.4972358
13.	2017	V. E. Ambruş, E. Winstanley, Quantum Corrections in Thermal States of Fermions on Anti-de Sitter Space-time, AIP Conf. Proc. 1916 (2017) 020005; WOS: 000423868800005; https://dx.doi.org/10.1063/1.5017425
14.	2017	Nicolina Pop, Felix Iacob, János Zsolt Mezei, Ousmanou Motapon, Sebastien Niyonzima, David O Kashinski, Dahbia Talbi, Albert Peet Hickman, Ioan F Schneider, Reactive collisions of electrons with H ²⁺ , HD ⁺ , BeH ⁺ , BeD ⁺ and SH ⁺ , AIP Conference Proceedings Volume 1916 Issue 1 Pages 020013 Publisher AIP Publishing
15.	2017	V.A. Chernyshev, A.V.Serdcev, V.P.Petrov, A.E. Nikiforov, C.N.Avrarm, N.M.Avrarm, AIP Conferences Proceedings, The Crystal Structure of rare earth impurity centers R ³⁺ in Y ₃ Al ₅ O ₁₂ :ab initio calculations, vol.1916,03005(2017)
16.	2017	M Balasoiu, SV Kozhevnikov, Yu V Nikitenko, GE Iacobescu, M Bunoiu, I Bica, Silicone rubber based magnetorheological elastomer: magnetic structure tested by means of neutron depolarization and magnetic force microscopy methods, Journal of Physics: Conference Series 848 (2017), 012016;
17.	2017	M Bălăşoiu, M Bunoiu, L Chirigiu, L M E Chirigiu, G Pascu, I Bica, Magnetodielectric membranes: Effects of the magnetic field on the dielectric loss tangent, AIP Conference Proceedings 1916 (2017), 040007;

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(Jurnale indexate ISI in zona rosie, zona galbena, zona alba)

		Title	DOI	Journal	Page
1.	2016	Fermion production in a magnetic field in a de Sitter universe	DOI:10.1103/PhysRevD.93.044070	Physical Review D 93	2470-0010
2.	2016	Partial wave analysis of the Dirac fermions scattered from Schwarzschild black holes	DOI 10.1140/epjc/s10052-016-3936-9	European Physical Journal C 76:102	1434-6044
3.	2016	Partial wave analysis of the Dirac fermions scattered from Reinsner-Nordstrom charged black holes	DOI 10.1140/epjc/s10052-016-4260-0	European Physical Journal C 76:413	1434-6044
4.	2016	Charged-particle distributions at low transverse momentum in $\sqrt{s}=13$ TeV pp interactions measured with the ATLAS detector at the LHC	10.1140/epjc/s10052-016-4335-y	European Physical Journal C	1434-6044
5.	2016	Luminosity determination in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector at the LHC	10.1140/epjc/s10052-016-4466-1	European Physical Journal C	1434-6044
6.	2016	Measurement of the $bb\bar{}$ dijet cross section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector	10.1140/epjc/s10052-016-4521-y	European Physical Journal C	1434-6044
7.	2016	Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector	10.1140/epjc/s10052-016-3910-6	European Physical Journal C	1434-6044
8.	2016	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data	10.1140/epjc/s10052-016-4507-9	European Physical Journal C	1434-6044
9.	2016	Search for bottom squark pair production in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	10.1140/epjc/s10052-016-4382-4	European Physical Journal C	1434-6044
10.	2016	Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV recorded with the ATLAS detector	10.1140/epjc/s10052-016-4481-2	European Physical Journal C	1434-6044
11.	2016	Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector	10.1140/epjc/s10052-016-4184-8	European Physical Journal C	1434-6044
12.	2016	Search for the Higgs boson produced in association with a W boson and decaying to four b-quarks via two spin-zero particles in pp collisions at 13 TeV with the ATLAS detector	10.1140/epjc/s10052-016-4418-9	European Physical Journal C	1434-6044
13.	2016	Study of the rare decays of B_s^0 and B^0 into muon pairs from data collected during the LHC Run 1 with the ATLAS detector	10.1140/epjc/s10052-016-4338-8	European Physical Journal C	1434-6044
14.	2016	Dark matter interpretations of ATLAS searches for the	10.1007/JHEP09(2016)175	Journal of High Energy Physics	1029-8479

		electroweak production of supersymmetric particles in $\sqrt{s}=8$ TeV proton-proton collisions			
15.	2016	Measurement of jet activity in top quark events using the $e\mu$ final state with two b-tagged jets in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector	10.1007/JHEP09(2016)074	Journal of High Energy Physics	1029-8479
16.	2016	Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector	10.1007/JHEP08(2016)009	Journal of High Energy Physics	1029-8479
17.	2016	Measurement of the relative width difference of the $B^{(s)}$ - $B^{(s)*}$ system with the ATLAS detector	10.1007/JHEP06(2016)081	Journal of High Energy Physics	1029-8479
18.	2016	Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	10.1007/JHEP06(2016)059	Journal of High Energy Physics	1029-8479
19.	2016	Search for resonances in diphoton events at $\sqrt{s}=13$ TeV with the ATLAS detector	10.1007/JHEP09(2016)001	Journal of High Energy Physics	1029-8479
20.	2016	Search for the Standard Model Higgs boson produced by vector-boson fusion and decaying to bottom quarks in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector	10.1007/JHEP11(2016)112	Journal of High Energy Physics	1029-8479
21.	2016	Searches for heavy diboson resonances in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	10.1007/JHEP09(2016)173	Journal of High Energy Physics	1029-8479
22.	2016	Study of hard double-parton scattering in four-jet events in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS experiment	10.1007/JHEP11(2016)110	Journal of High Energy Physics	1029-8479
23.	2016	Measurement of the Inelastic Proton-Proton Cross Section at $s = 13$ TeV with the ATLAS Detector at the LHC	10.1103/PhysRevLett.117.182002	Physical Review Letters	0031-9007
24.	2016	Search for Higgs and Z Boson Decays to $\phi\gamma$ with the ATLAS Detector	10.1103/PhysRevLett.117.111802	Physical Review Letters	0031-9007
25.	2016	Measurement of the top quark mass in the $t\bar{t} \rightarrow$ Dilepton channel from $\sqrt{s}=8$ TeV ATLAS data	10.1016/j.physletb.2016.08.042	Physics Letters B	0370-2693
26.	2016	Measurement of the total cross section from elastic scattering in pp collisions at $s=8$ TeV with the ATLAS detector	10.1016/j.physletb.2016.08.020	Physics Letters B	0370-2693
27.	2016	Measurement of the $t\bar{t}$ production cross-section using $e\mu$ events with b-tagged jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector	10.1016/j.physletb.2016.08.019	Physics Letters B	0370-2693
28.	2016	Measurement of the $W^{\pm}Z$ boson pair-production cross section in pp collisions at $\sqrt{s}=13$ TeV with the	10.1016/j.physletb.2016.08.052	Physics Letters B	0370-2693

		ATLAS detector			
29.	2016	Measurement of W^+W^- production in association with one jet in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector	10.1016/j.physletb.2016.10.014	Physics Letters B	0370-2693
30.	2016	Search for charged Higgs bosons produced in association with a top quark and decaying via $H^{\pm} \rightarrow \tau\nu$ using pp collision data recorded at $s=13$ TeV by the ATLAS detector	10.1016/j.physletb.2016.06.017	Physics Letters B	0370-2693
31.	2016	Search for dark matter produced in association with a hadronically decaying vector boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	10.1016/j.physletb.2016.10.042	Physics Letters B	0370-2693
32.	2016	Search for heavy long-lived charged R-hadrons with the ATLAS detector in 3.2 fb ⁻¹ of proton-proton collision data at $s=13$ TeV	10.1016/j.physletb.2016.07.042	Physics Letters B	0370-2693
33.	2016	Search for high-mass new phenomena in the dilepton final state using proton-proton collisions at $s=13$ TeV with the ATLAS detector	10.1016/j.physletb.2016.08.055	Physics Letters B	0370-2693
34.	2016	Search for new resonances in events with one lepton and missing transverse momentum in pp collisions at $s=13$ TeV with the ATLAS detector	10.1016/j.physletb.2016.09.040	Physics Letters B	0370-2693
35.	2016	Search for TeV-scale gravity signatures in high-mass final states with leptons and jets with the ATLAS detector at $s=13$ TeV	10.1016/j.physletb.2016.07.030	Physics Letters B	0370-2693
36.	2016	Transverse momentum, rapidity, and centrality dependence of inclusive charged-particle production in $s_{NN}=5.02$ TeV p + Pb collisions measured by the ATLAS experiment	10.1016/j.physletb.2016.10.053	Physics Letters B	0370-2693
37.	2016	Search for scalar leptoquarks in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment	10.1088/1367-2630/18/9/093016	New Journal of Physics	1367-2630
38.	2016	Ångström-PreScott equation: Physical basis, empirical models and sensitivity analysis	10.1016/j.rser.2016.04.012	Renewable and Sustainable Energy Reviews	1364-0321
39.	2016	A theoretical framework for Ångström equation. Its virtues and liabilities in solar energy estimation	10.1016/j.enconman.2016.01.021	Energy Conversion and Management	0196-8904
40.	2016	A new perspective on the relationship between cloud shade and point cloudiness	10.1016/j.atmosres.2016.01.006	Atmospheric Research	0169-8095
41.	2016	Reconstruction of effective cloud field geometry from series of sunshine number	10.1016/j.atmosres.2016.03.004	Atmospheric Research	0169-8095

42.	2016	A new point of view on the relationship between global solar irradiation and sunshine quantifiers	10.1016/j.solener.2016.01.009	Solar Energy	0038-092X
43.	2016	Regression models for hourly diffuse solar radiation	10.1016/j.solener.2015.11.044	Solar Energy	0038-092X
44.	2016	Partial wave analysis of the Dirac fermions scattered from Reissner-Nordstrom charged black holes	DOI 10.1140/epjc/s10052-016-4260-0	European Physical Journal C	1434-6044
45.	2016	Maxwell-Juttner distribution for rigidly rotating flows in spherically symmetric spacetimes using the tetrad formalism	10.1103/PhysRevD.94.085022	PHYSICAL REVIEW D	2470-0010
46.	2016	Magnetorheological elastomer based on silicone rubber, carbonyl iron and Rochelle salt: Effects of alternating electric and static magnetic fields intensities	DOI: 10.1016/j.jiec.2016.03.047 WOS: 000377737100040	Journal of Industrial and Engineering Chemistry	1226-086X
47.	2016	On the utility of low frequency, polarised, complex susceptibility measurements in the investigation of the dynamic properties of magnetic fluids	000378450100095	JOURNAL OF MOLECULAR LIQUIDS	0167-7322
48.	2016	Experimental investigations of the structural transformations induced by the heat treatment in manganese ferrite synthesized by ultrasonic assisted co-precipitation method	000384784100042	CERAMICS INTERNATIONAL	0272-8842
49.	2016	The electrical performance of ceramics materials with perovskite structure doped with metallic ions	000388542700132	CERAMICS INTERNATIONAL	0272-8842
50.	2016	Maxwell-Juttner distribution for rigidly rotating flows in spherically symmetric spacetimes using the tetrad formalism	10.1103/PhysRevD.94.085022	Physical Review D	2470-0010
51.	2016	Lattice Boltzmann models based on half-range Gauss-Hermite quadratures	10.1016/j.jcp.2016.04.010	Journal of Computational Physics	0021-9991
52.	2016	Rotating fermions inside a cylindrical boundary	10.1103/PhysRevD.93.104014	Physical Review D	2470-0010
53.	2016	Partial Wave analysis of the Dirac fermions scattered from Reissner - Nordstrom charged.	DOI: 10.1140/epjc/s10052-016-4260-0 / WOS:000381215700001	EUROPEAN PHYSICAL JOURNAL C	1434-6044
54.	2016	Shape memory microactuation design by substrate's reinforcement layers	WOS:000371296000044	MATERIALS & DESIGN	0264-1275
55.	2016	Measurement of exclusive $\gamma\gamma \rightarrow w+W-$ production and search for exclusive Higgs boson production in pp collisions at $s=8$ TeV using the ATLAS detector	10.1103/PhysRevD.94.032011	Physical Review D	2470-0010
56.	2016	Measurement of top quark pair differential cross sections in the dilepton channel in pp collisions at $s=7$ and 8 TeV	10.1103/PhysRevD.94.092003	Physical Review D	2470-0010
57.	2016	Search for metastable heavy charged particles with large ionization energy loss in pp collisions at $s=13$ TeV using the	10.1103/PhysRevD.93.112015	Physical Review D	2470-0010

		ATLAS experiment			
58.	2016	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector	10.1103/PhysRevD.94.032005	Physical Review D	2470-0010
59.	2016	Search for pair production of gluinos decaying via stop and sbottom in events with b-jets and large missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	10.1103/PhysRevD.94.032003	Physical Review D	2470-0010
60.	2016	Search for pair production of Higgs bosons in the bbbb final state using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS	10.1103/PhysRevD.94.052002	Physical Review D	2470-0010
61.	2016	Search for top squarks in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector	10.1103/PhysRevD.94.052009	Physical Review D	2470-0010

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62.	2016	Thermoanalytical techniques - Excellent tools for the characterization of ferrite/SiO ₂ nanocomposites and their precursors	DOI: 10.1007/s10973-016-5394-x	Journal of Thermal Analysis and Calorimetry	1388-6150
63.	2016	A measurement of material in the ATLAS tracker using secondary hadronic interactions in 7TeV pp collisions	10.1088/1748-0221/11/11/P11020	Journal of Instrumentation	1748-0221
64.	2016	Filtration of flue gas in microfluidic devices using dielectrophoresis		Romanian Journal of Physics	1221-146X
65.	2016	Filtration of flue gas by retaining of nanoparticle in microfluidic devices using dielectrophoresis		Romanian Reports in Physics	1221-1451
66.	2016	Empirical versus Optimal Control of Flow in Solar Domestic Hot Water Systems	10.1061/(ASCE)EY.1943-7897.0000307	JOURNAL OF ENERGY ENGINEERING	0733-9402
67.	2016	Charge compensating defects study of YbF ₃ doped BaF ₂ crystals using dielectric loss	10.1002/pssb.201552507	PHYSICA STATUS SOLIDI B	0370-1972
68.	2016	Ferrofluid-based magnetorheological fluids: tuning the properties by varying the composition at two hierarchical levels	10.1007/s00397-016-0931-x	Rheologica Acta	0035-4511 (Print) 1435-1528 (Online)
69.	2016	Nano-microcomposite magnetic fluids: Magnetic and magnetorheologica levaluation for rotating seal and vibration damper applications	10.1016/j.jmmm.2015.12.095	Journal of Magnetism and Magnetic Materials	0304-8853
70.	2016	Nano-micro composite magnetic fluids: Magnetic and magnetorheological evaluation for rotating seal and vibration damper applications	10.1016/j.jmmm.2015.12.095	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	0304-8853
71.	2016	MATERIALS IN EXTREME ENVIRONMENTS FOR ENERGY, ACCELERATORS AND SPACE APPLICATIONS AT ELI-NP	WOS:000380601700007	ROMANIAN REPORTS IN PHYSICS	1221-1451
72.	2016	Gauge dependence in QED amplitudes in expanding de Sitter space	DOI: 10.1142/S0217751X16500500 WOS: 000374061200008	International Journal of Modern Physics A	0217-751X
73.	2016	Mechanisms of micropore formation in silicone rubber based membranes	WOS: 000376474500015	Romanian Journal of Physics	1221-146X
74.	2016	Microparticles and Electroconductive Magnetorheological Suspensions	WOS: 000381898000015	Romanian Journal of Physics	1221-146X
75.	2016	Filtration of flue in microfluidic devices using dielectrophoresis	WOS: 000381898000017	Romanian Journal of Physics	1221-146X
76.	2016	Filtration of flue gas by retaining of nanoparticles in microfluidic devices using dielectrophoresis	WOS: 000383829000015	Romanian Reports in Physics	1221-1451
77.	2016	Application of mixed quadrature lattice Boltzmann models for the simulation of Poiseuille flow at	10.1016/j.jocs.2016.03.016	Journal of Computational Science	1877-7503

		non-negligible values of the Knudsen number			
78.	2016	The transport of the Dirac fermions through certain one-dimensional quantum wire structures	WOS:000385603700008	ROMANIAN JOURNAL OF PHYSICS	1221-146X
79.	2016	Low energy Greybody factors for fermions emitted by a Schwarzschild-de Sitter black hole	DOI: 10.1142/S0218271816500437 / WOS:000372549400007	INTERNATIONAL JOURNAL OF MODERN PHYSICS D	0218-2718
80.	2016	Using Maple + GRTensorII in teaching basics of General Relativity and Cosmology	WOS:000373247900003	ROMANIAN REPORTS IN PHYSICS	1221-1451

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81.	2016	Perturbative approach to the problem of particle production in electric field on de Sitter universe	DOI: 10.1142/S0217732316500826	Modern Physics Letters A 31	0217-7323
82.	2016	Relativistic persistent currents in ideal Aharonov-Bohm rings	10.1142/S0217979215502458	INTERNATIONAL JOURNAL OF MODERN PHYSICS B	0217-9792
83.	2016	Relativistic currents on ideal Aharonov-Bohm cylinders	10.1142/S0217979216501903	INTERNATIONAL JOURNAL OF MODERN PHYSICS B	0217-9792
84.	2016	Shear bond strength tests of zirconia veneering ceramics after chipping repair	DOI: 10.1080/01694243.2015.1117304 WOS: 000366836000008	Journal of Adhesion Science and Technology	0169-4243
85.	2016	The Electrical Properties of Some Composite Materials Based on Sodium and Tantalum Oxides	000371642600026	ACTA PHYSICA POLONICA A	0587-4246
86.	2016	Optical Energy Levels Scheme for Co ²⁺ doped in K(Mg,Zn)F ₃ Fluoroperovskites	doi:10.1016/j.physb.2015.11.011	<i>Physica B: Condensed Matter</i>	0921-4526
87.	2016	Relativistic persistent currents in ideal Aharonov-Bohm rings	10.1142/S0217979215502458	INTERNATIONAL JOURNAL OF MODERN PHYSICS B	0217-9792
88.	2016	Relativistic currents on ideal Aharonov-Bohm cylinders	10.1142/S0217979216501903	INTERNATIONAL JOURNAL OF MODERN PHYSICS B	0217-9792
89.	2016	The secondary structure and the thermal unfolding parameters of the S-layer protein from <i>Lactobacillus salivarius</i>	10.1007/s00249-016-1117-2	European Biophysics Journal with Biophysics Letters, Volume 45, Issue 6, Pages 491-509.	0175-7571
90.	2016	Composite magnetorheological elastomers as dielectrics for plane capacitors: Effects of magnetic field intensity	DOI: 10.1016/j.rinp.2016.04.006 WOS: 000389770300050	Results in Physics	2211-3797
91.	2016	Synthesis, structural and electrical properties of NaTaO ₃ :Cu,	https://doi.org/10.1007/s10854-016-5299-2	JOURNAL OF MATERIALS SCIENCE- MATERIALS IN ELECTRONICS	0957-4522

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92.	2016	Digital Storytelling as a Creative Teaching Method in Romanian Science Education	DOI: 10.1063/1.4944311 WOS: 000375923300192	AIP Conference Proceedings	0094-243X
93.	2016	Augmented Reality in Romanian Science Education – Pros and Cons	DOI: 10.12753/2066-026X-16-205 WOS: 000385397100028	The International Scientific Conference eLearning and Software for Education	2066-026X

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		Title	DOI	Journal	Page
1.	2015	A simple but accurate procedure for solving the five-parameter model	10.1016/j.enconman.2015.07.046	Energy Conversion and Management	0196-8904
2.	2015	Crude and High-Temperature Heated Coffee Oil by ATR-FTIR Spectroscopy along with Antioxidant and Antimicrobial Properties,	10.1371/journal.pone.0138080	PLOS ONE	1932-6203
3.	2015	Unruh effect without Rindler horizon	DOI: 10.1088/0264-9381/32/4/045013 WOS: 000349156400014	Classical and Quantum Gravity	0264-9381
4.	2015	Modulated interaction in double-layer shape memory-based micro-designed actuators	WOS:000368333800003	SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS	1468-6996

		Title	DOI	Journal	Page
5.	2015	Positive dielectrophoresis used for selective trapping of nanoparticles from flue gas in a gradient field electrodes device	DOI: 10.1007/s11051-015-3304-y	Journal of Nanoparticle Research	1388-0764
6.	2015	Tailored vs black-box models for forecasting hourly average solar irradiance	10.1016/j.solener.2014.11.003	Solar Energy	0038-092X
7.	2015	Numerical and experimental modeling of melt flow in a directional solidification configuration under the combined influence of electrical current and magnetic field	10.1016/j.euromechflu.2015.03.001	EUROPEAN JOURNAL OF MECHANICS B-FLUIDS	0997-7546
8.	2015	Obtaining of NiO/SiO ₂ by thermal decomposition of Ni(II) carboxylates formed within hybrid silica gels	10.1007/s10973-015-4485-4	Journal of Thermal Analysis and Calorimetry	1388-6150 (Print) 1588-2926 (Online)
9.	2015	Application of the time-temperature superposition	-	Romanian Reports in Physics	1221-1451,

		principle to concentrated magnetic nanofluids			1841-8759
10.	2015	Acceleration in de Sitter spacetimes	10.1209/0295-5075/109/40002	Europhysics Letters	0295-5075
11.	2015	Magnetodielectric effects in composite materials based on paraffin, carbonyl iron and graphene	DOI: 10.1016/j.jiec.2014.05.048 WOS: 000350079800179	Journal of Industrial and Engineering Chemistry	1226-086X
12.	2015	Magnetodielectric effects in hybrid magnetorheological suspensions	DOI: 10.1016/j.jiec.2014.06.024 WOS: 000355234800007	Journal of Industrial and Engineering Chemistry	1226-086X
13.	2015	Time solved susceptibility spectra of magnetic fluids	000353525400009	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	0304-8853
14.	2015	Structural and physical properties of undoped and Ag-doped NaTaO ₃ synthesized at low temperature	000361774100099	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	1369-8001
15.	2015	Jahn-Teller effect in 4T _{2g} excited state of Mn ²⁺ :MgO	http://dx.doi.org/10.1016/j.chemphys.2015.05.008	<i>Chemical Physics</i>	0301-0104
16.	2015	Exact solution to the Schrödinger's equation with pseudo-Gaussian potential	https://doi.org/10.1063/1.4936309	Journal of Mathematical Physics	0022-2488

17.	2015	Numerical investigation of crystal growth in a vertical Bridgman configuration using a mushy region model	WOS:000354075200028	Journal of Optoelectronics and Advanced Materials	1454-4164
18.	2015	Physicochemical characterization of zofenopril inclusion complex with 2-hydroxypropyl-beta-cyclodextrin	DOI: 10.2298/JSC140828118U	Journal of the Serbian Chemical Society	0352-5139
19.	2015	Host - guest system of zofenopril and randomly methylated beta - cyclodextrin preparation, characterization and solubility	WOS:000350270800004	Revista de Chimie	0034-7752
20.	2015	Interaction between Maxwell field and charged scalar field in de Sitter universe	DOI: 10.1142/S0217751X15500888	International Journal of Modern Physics A 30	0217-751X
21.	2015	Comparison of the structure and function of the ROF2 protein and its human homolog FKBP52	WOS:000380001400063	EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS	0175-7571
22.	2015	A note on the nonperturbative nature of the Schwinger effect in the expanding de Sitter space	DOI: 10.1142/S0217732315500467 WOS: 000350570000008	Modern Physics Letters A	0217-7323
23.	2015	Isometry generators in momentum representation of the Dirac theory on the de Sitter spacetime	10.1142/S0217732315502089	MODERN PHYSICS LETTERS A	0217-7323
24.	2015	Influence of the longitudinal magnetic field on the turning angle of a cylindrical bar-shaped magnetorheological elastomer	WOS: 000364600400024	Journal of Optoelectronics and Advanced Materials	1454-4164
25.	2015	A Review of the Solar Energy Database for the Banat Plain	000366573900036	AIP Conference Proceedings	0094-243X
26.	2015	Dry Eye Syndrome Among Computer Users	000366573900037	AIP Conference Proceedings	0094-243X
27.	2015	Theoretical evaluation of the heating rate of ferrofluids	000348192400051	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY	1388-6150
28.	2015	The electrical properties of manganese ferrite powders prepared by two different methods	000350812000015	PHYSICA B-CONDENSED MATTER	0921-4526
29.	2015	Calculations of the electronic levels, spin-Hamiltonian parameters and vibrational spectra for the CrCl ₃ layered crystals	doi:/10.1016/j.physb.2015.08.025	<i>Physica B: Condensed Matter</i>	0921-4526
30.	2015	Silicone rubber membranes: Influence of the electric field of medium frequency on the dielectric properties	WOS: 000368046700042	Journal of Optoelectronics and Advanced Materials	1454-4164
31.	2015	New modes for massive Dirac field in higher dimensional Black Holes	DOI: 10.1142/S021773231550145X / WOS:000360057400006	MODERN PHYSICS LETTERS A	0217-7323

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32.	2015	GaInSn melt flow structure variation with crucible size in an isothermal electromagnetic stirring configuration	10.1063/1.4937247	AIP Conference Proceedings	0094-243X
33.	2015	Model-free Kinetic Analysis of Sr ₂ FeMoO ₆ Re-crystallization Process Used for Double-Perovskite Monocrystals Grown by Bridgman Method	10.1063/1.4937258	AIP Conference Proceedings	0094-243X
34.	2015	Nanoparticles trapping from flue gas using dielectrophoresis	DOI: 10.1063/1.4937256 WOS: 000366573900030	AIP Conference Proceedings	0094-243X
35.	2015	Promoting an English and Science Summer Programme through Social Media	WOS: 000367888300019	SMART 2014 - Social Media in Academia: Research and Teaching	978-88-7587-712-5
36.	2015	Why Blended Learning Models in Romanian Science Education?	DOI: 10.12753/2066-026X-15-251 WOS: 000384471300071	Rethinking Education by Leveraging the Elearning Pillar of the Digital Agenda for Europe! vol. III of Book Series: eLearning and Software for Education	2066-026X
37.	2015	Training Teachers for the Knowledge Society: Social Media in Science Education	WOS: 000376294800006	Brain-Broad Research in Artificial Intelligence and Neuroscience	2067-3957
38.	2015	Degeneracy of energy levels of pseudo-Gaussian oscillators	https://doi.org/10.1063/1.4937261	AIP Conference Proceedings	0094-243X

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1.					
2.	2014	Generalized additive models for nowcasting cloud shading	10.1016/j.solener.2014.01.005	Solar Energy	0038-092X
3.	2014	Nowcasting solar irradiance using the sunshine number	10.1016/j.enconman.2013.12.048	Energy Conversion and Management	0196-8904
4.	2014	New procedure and field-tests to assess photovoltaic module performance	10.1016/j.energy.2014.03.085	Energy	0360-5442
5.	2014	Yield stress and flow behavior of concentrated ferrofluid based magnetorheological fluids: the influence of composition	10.1007/s00397-014-0785-z	Rheologica Acta	0035-4511 (Print) 1435-1528 (Online)
6.	2014	Hybrid magnetorheological elastomer: Influence of magnetic field and compression pressure on its electrical conductivity	DOI: 10.1016/j.jiec.2013.12.102 WOS: 000343690600007	Journal of Industrial and Engineering Chemistry	1226-086X
7.	2014	Prediction of thermally-controlled actuation for shape memory alloy	WOS:000339657900041	SMART MATERIALS AND STRUCTURES	0964-1726

8.	2014	Acidic and neutral caesium salts of 12-molybdophosphoric acid supported on SBA-15 mesoporous silica. The influence of Cs concentration and surface coverage on textural and structural properties	DOI: 10.1016/j.materresbull.2013.11.015	Materials Research Bulletin	0025-5408
9.	2014	Structural and morphologic characterization of zirconia-silica nanocomposites prepared by a modified sol-gel method	DOI: 10.1016/j.jcrysgr.2013.02.008	Journal of Crystal Growth	0022-0248
10	2014	Assessment of beam solar irradiance using parametric modeling	10.1080/15435075.2013.829478	International Journal of Green Energy	1543-5075
11	2014	Effects of fluid flow velocity upon nanoparticle distribution in microfluidic devices under dielectrophoresis	WOS: 000342035600016	Romanian Reports in Physics	1221-1451
12	2014	Evaluation of errors made in solar irradiance estimation due to averaging the Angstrom turbidity coefficient	10.1016/j.atmosres.2014.07.015	Atmospheric Research	0169-8095
13	2014	Solidification of multicrystalline silicon-simulation of micro-structures	10.1016/j.jcrysgr.2013.01.044	JOURNAL OF CRYSTAL GROWTH	0022-0248
14	2014	Effects of crucible coating on the quality of multicrystalline silicon grown by a Bridgman technique	10.1016/j.jcrysgr.2013.02.038	JOURNAL OF CRYSTAL GROWTH	0022-0248
15	2014	Quality assurance in the laboratory testing process: indirect estimation of the reference intervals for platelet parameteres in nonates	10.1016/j.clinbiochem.2014.07.002	Clinical Biochemistry	0009-9120
16	2014	Low frequency dielectric behavior of near surface cohesive soils		Romanian Reports in Physics	1221-1451 43 822
17	2014	Comparison features for proton and heavy ion beams versus photon and electron beams		Romanian Reports in Physics	1221-1451 43 822
18	2014	Experimental results in percentage depth dose (PDD) determination in the extended distances		Romanian Reports in Physics	1221-1451 43 822
19	2014	The Claussius-Mossotti factor in low-frequency field of the powders resulted from wastes combustion,		Romanian Journal of Physics	ISSN 1221-146X

20	2014	Physicochemical Analysis and Molecular Modeling of the Fosinopril β -Cyclodextrin Inclusion Complex	DOI: 10.1155/2014/748468	Journal of Spectroscopy	2314-4920
21	2014	Cloude shade by dynamic logistic modeling	10.1080/02664763.2013.862221	Journal of Applied Statistics	0266-4763
22	2014	Takagi-Sugeno algorithm for global solar irradiation using	WOS:000351577700016	Environmental Engineering and	1582-9596

		air temperature data		Management Journal	
23	2014	The assessment of beam solar irradiance using parametric modeling	10.1080/15435075.2013.829478	International Journal of Green Energy	1543-5075
24	2014	The Clausius-mossotti factor in low frequency field of the powders resulted from wastes combustion,		Romanian Journal of Physics	1221-146X
25	2014	Structural Properties of Composite Elastomeric Membranes Using Small-Angle Neutron Scattering	WOS: 000358454700003	Romanian Journal of Physics	1221-146X
26	2014	ABSORBING MATERIALS WITH APPLICATIONS IN RADIOTHERAPY AND RADIOPROTECTION	000347733500037	RADIATION PROTECTION DOSIMETRY	0144-8420
27	2014	First principles and crystal field calculations of the spectral, structural and electric properties of (Na, Li)VSi ₂ O ₆ clinopyroxenes crystals	doi:10.1088/0031-8949/2014/T162/014021	<i>Physica Scripta</i>	0031-8949
28	2014	Investigations of the optical spectra and spin-Hamiltonian parameters for VO(II) ion in mixed alkali cadmium phosphate glasses	WOS:000338487000050	<i>Optoelectronics and Advanced Materials-Rapid Communications</i>	1842-6573
29	2014	Circular dichroism and the secondary structure of the ROF2 protein from <i>Arabidopsis thaliana</i>	10.1007/s10867-013-9323-y	Journal of Biological Physics, Volume 39, Issue 4, Pages 635-648.	0092-0606

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30.	2014	Study of a 3D DEP-based Microfluidic System for Selective Nanoparticle Manipulation	DOI: 10.1063/1.4903019 WOS: 000346066100014	AIP Conference Proceedings	0094-243X
31.	2014	Segregation coefficient of Yb ³⁺ and Yb ²⁺ Ions in YbF ₃ Doped BaF ₂ Crystals	DOI: 10.1063/1.4903023 WOS: 000346066100018	AIP Conference Proceedings	0094-243X
32.	2014	Discrete Symmetries and de Sitter Spacetime	DOI: 10.1063/1.4903010 WOS: 000346066100005	AIP Conference Proceedings	0094-243X
33.	2014	On Classical and Quantum Dynamics of Tachyon-like Fields and Their Cosmological Implications	DOI: 10.1063/1.4903007	AIP Conference Proceedings	0094-243X
34.	2014	Computational study on superparamagnetic hyperthermia with biocompatible SPIONs to destroy the cancer cells	10.1088/1742-6596/521/1/012015	Journal of Physics: Conference Series	1742-6588

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1.	2013	de Sitter QED in Coulomb gauge: First order transition amplitudes	DOI: 10.1103/PhysRevD.87.044016	Physical Review D 87	1550-7998
2.	2013	Influence of aerosols pollution on the amount of collectable solar energy	10.1016/j.enconman.2013.02.012	Energy Conversion and Management	0196-8904
3.	2013	Tools for PV (photovoltaic) plant operators: Nowcasting of passing clouds	10.1016/j.energy.2013.03.005	Energy	0360-5442
4.	2013	Synthesis and characterization of Zn ₃ Ta ₂ O ₈ nanomaterials by hydrothermal method	doi:10.1016/j.jallcom.2013.03	<i>Journal of Alloys and Compounds</i>	0925-8388

5.	2013	The obtaining of NiCr ₂ O ₄ nanoparticles by unconventional synthesis methods	DOI: 10.1007/s10973-011-2177-2	Journal of Thermal Analysis and Calorimetry	1388-6150
6.	2013	Evaluation of cation influence on the formation of M(II)Cr ₂ O ₄ during the thermal decomposition of mixed carboxylate type precursors	DOI: 10.1007/s10973-012-2726-3	Journal of Thermal Analysis and Calorimetry	1388-6150
7.	2013	CoFe ₂ O ₄ /SiO ₂ nanocomposites by thermal decomposition of some complex combinations embedded in hybrid silica gels	DOI: 10.1007/s10973-012-2704-9	Journal of Thermal Analysis and Calorimetry	1388-6150
8.	2013	Nanosized zinc and magnesium ferrites obtained from PVA–metal nitrates' solutions	DOI: 10.1007/s10973-012-2888-z	Journal of Thermal Analysis and Calorimetry	1388-6150
9.	2013	Thermal decomposition of metal nitrates. PVA–TEOS gels for obtaining M(II) ferrite/silica nanocomposites	DOI: 10.1007/s10973-012-2786-4	Journal of Thermal Analysis and Calorimetry	1388-6150
10.	2013	Preparation of CuFe ₂ O ₄ /SiO ₂ nanocomposite starting from Cu(II)–Fe(III) carboxylates embedded in hybrid silica gels	DOI: 10.1007/s10973-013-2938-1	Journal of Thermal Analysis and Calorimetry	1388-6150
11.	2013	Thermal behavior of Co(II) and Ni(II) hydroxycarboxylate complexes obtained by two original synthesis methods	DOI: 10.1007/s10973-013-2951-4	Journal of Thermal Analysis and Calorimetry	1388-6150
12.	2013	Study on the formation of MCr ₂ O ₄ /SiO ₂ nanocomposites from hybrid gels PVA–TEOS–metal nitrates	DOI: 10.1016/j.tca.2013.04.020	Thermochimica Acta	0040-6031

13.	2013	Influence of thermal treatment on the formation of zirconia nanostructured powder by thermal decomposition of different precursors	DOI: 10.1016/j.jcrysgro.2013.07.018	Journal of Crystal Growth	0022-0248
14.	2013	Dielectric relaxation in ytterbium- and lead- doped calcium fluoride crystals	10.1140/epjb/e2013-31004-x	THE EUROPEAN PHYSICAL JOURNAL B	1434-6028
15.	2013	Numerical parameter studies of 3D melt flow and interface shape for directional solidification of silicon in a traveling magnetic field	10.1016/j.jcrysgro.2013.06.023	JOURNAL OF CRYSTAL GROWTH	0022-0249
16.	2013	Novel method for melt flow control in unidirectional solidification of multi-crystalline silicon	10.1016/j.jcrysgro.2013.02.014	JOURNAL OF CRYSTAL GROWTH	0022-0250
17.	2013	Unsteady coupled 3D calculations of melt flow, interface shape, and species transport for directional solidification of silicon in a traveling magnetic field	10.1016/j.jcrysgro.2012.12.135	JOURNAL OF CRYSTAL GROWTH	0022-0251
18.	2013	Quality in post-analytical phase: indirect reference intervals for erythrochite parameters of neonates	10.1016/j.clinbiochem.2013.02.013	Clinical Biochemistry	0009-9120
19.	2013	COVARIANT REPRESENTATIONS OF THE DE SITTER ISOMETRY GROUP	10.1142/S0217732313500338	MODERN PHYSICS LETTERS A	0217-7323
20.	2013	On the rest and flat limits of the scalar modes on the de Sitter spacetime	DOI: 10.1142/S0217732313501605 WOS: 000327350500003	Modern Physics Letters A	0217-7323
21.	2013	Comparing the relativistic and non-relativistic transmission coefficients of the electron transport through a quantum heterostructure	10.1016/j.physleta.2013.10.007	PHYSICS LETTERS A	0375-9601
22.	2013	Physical characteristics of magnetorheological suspensions and their applications	DOI: 10.1016/j.jiec.2012.10.008 WOS: 000314744700004	Journal of Industrial and Engineering Chemistry	1226-086X
23.	2013	The temperature effect on the combined Brownian and Neel relaxation processes in a water-based magnetic fluid	000353525400009	<u>JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS</u>	0304-8853
24.	2013	Highly crystalline porous magnetite and vacancy-ordered maghemite microcrystals of rhombohedral habit	WOS:000324042000032	JOURNAL OF CRYSTAL GROWTH	0022-0248

25.	2013	Synthesis of nanocrystalline ZnFe ₂ O ₄ and its use for the removal of Congo red from aqueous solutions	WOS:000325283100015	Environmental Engineering and Management Journal	1582-9596
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26.	2013	Nowcasting sunshine number using logistic modeling	10.1007/s00703-013-0240-1	Meteorology and Atmospheric Physics	0177-7971
27.	2013	Forecasting hourly global solar irradiation using simple non-seasonal models	10.1063/1.4858617	Journal of Renewable and Sustainable Energy	1941-7012
28.	2013	MAGNETO-DIELECTRIC SPECTROSCOPY OF MAGNETIC FLUIDS	000328870000004	MAGNETOHYDRODYNAMICS	0024-998X
29.	2013	Investigation of the Low Frequency Polarization Mechanisms in Magnetic Fluids	000327364100022	ACTA PHYSICA POLONICA A	0587-4246
30.	2013	Modeling of crystal field and spin-Hamiltonian parameters for Ti ³⁺ :MgO	DOI:10.1010/j.physb.2013.08.016	<i>Physica B-Condensed Matter</i>	0921-4526
31.	2013	Influence of Rashba spin-orbit interaction on the transmission and the dwell time of the electron tunneling through a multiple quantum well structure	10.1016/j.physb.2013.08.025	PHYSICA B-CONDENSED MATTER	0921-4526
32.	2013	A study of electron transport through a multiple quantum well structure in the presence of an electric field, using the relativistic transfer matrix	10.1088/0031-8949/2013/T157/014005	PHYSICA SCRIPTA	0031-8949
33.	2013	Investigation of Surface Properties of Magnetorheological Elastomers by Atomic Force Microscopy	DOI: 10.1007/s10948-012-1903-8 WOS: 000317014500011	Journal of Superconductivity and Novel Magnetism	1557-1939
34.	2013	Doped Bi ₂ Te ₃ nano-structured Semiconductors obtained by ultrasonically assisted hidrothermal method	DOI: 10.2478/s11532-013-0291-7	Central European Journal of Chemistry	1895-1066
35.	2013	Preparation and characterization of Fe ₆₇ Cr ₄ Mo ₄ Ga ₄ P ₁₂ B ₅ C ₄ ferromagnetic bulk amorphous alloy	WOS:000329482600044	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS	1454-4164

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36.	2013	Stochastic modeling of sunshine number data	10.1063/1.4832815	AIP Conference Proceedings	0094-243X
37.	2013	Atmospheric Transmittance Model for Photosynthetically Active Radiation	10.1063/1.4832816	AIP Conference Proceedings	0094-243X
38.	2013	Characteristic Properties of a Magnetic Nanofluid Used as Cooling and Insulating Medium in a Power Transformer	10.1109/ATEE.2013.6563463	Proc. of the 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE)	2068-7966
39.	2013	Submicron particle trapping using traveling wave dielectrophoresis	DOI: 10.1063/1.4832804 WOS: 000327454500017	AIP Conference Proceedings	0094-243X

