

Chicea Dan

LIST OF PUBLISHED WORK

a) List of Relevant Articles (published in ISI rated journals with impact factor)

No.	Article title, authors, Journal name, volume, pages, year
1	<i>SPECKLE SIZE, INTENSITY AND CONTRAST MEASUREMENT APPLICATION IN MICRON-SIZE PARTICLE CONCENTRATION ASSESSMENT</i> , Dan Chicea, European Physical Journal Applied Physics vol. 40, pg.305-310 (2007), DOI: 10.1051/epjap:2007163
2	<i>COHERENT LIGHT SCATTERING ON NANOFUIDS - COMPUTER SIMULATION RESULTS</i> , Dan Chicea, Applied Optics, Vol. 47, No. 10 April 1, pp. 1434-1442, 2008.
3	<i>ON AQUEOUS Fe_3O_4 NANOFUID ROOM TEMPERATURE SYNTHESIS AND PHYSICAL PROPERTIES</i> , D. Chicea, C. M. Goncea, Optoelectronics and Advanced Materials – Rapid Communications vol. 3, no. 3, march 2009, p. 185 – 189
4	<i>ALTERNATIVE PHOTOPYROELECTRIC DETECTION METHOD OF PHASE TRANSITIONS IN FERROELECTRIC MATERIALS</i> , D. Dadarlat, D. Chicea, N. Houriez, S. Delenclos, S. Longuemart, A. Hadj Sahraoui, Optoelectronics and Advanced Materials – Rapid Communications vol. 3, no. 4, april 2009, p. 323 - 325
5	<i>REVEALING Fe_3O_4 NANOPARTICLES AGGREGATION DYNAMICS USING DYNAMIC LIGHT SCATTERING</i> , D. Chicea, Optoelectronics and Advanced Materials – Rapid Communications vol. 3, no. 12, November 2009, p. 1299 – 1305
6	<i>PROBING PARTICLE AGGREGATION IN AQUEOUS SUSPENSIONS BY LIGHT SCATTERING ANISOTROPY MEASUREMENTS</i> , D. Chicea, Journal of Optoelectronics and Advanced Materials vol. 12, no. 1, January 20, 2010, p. 152 – 158
7	<i>NANOPARTICLES AND NANOPARTICLE AGGREGATES SIZING BY DLS AND AFM</i> , D. Chicea, Optoelectronics and Advanced Materials – Rapid Communications vol. 4, issue 9, September 15, 2010, p. 1310 – 1315.
8	<i>A STUDY OF NANOPARTICLE AGGREGATION BY COHERENT LIGHT SCATTERING</i> , Dan Chicea, Current Nanoscience, vol. 8 issue 6, pp. 259-265, 2012, doi: http://dx.doi.org/10.2174/157341312800167704
9	<i>ASSESSING Fe_3O_4 NANOPARTICLE SIZE BY DLS, XRD AND AFM</i> , D. CHICEA, E. INDREA, C. M. CRETU, Journal Of Optoelectronics and Advanced Materials Vol: 14 Issue: 5-6, pp: 460-466, June 2012.
10	<i>REVEALING Fe_3O_4 NANOPARTICLE AGGREGATION IN AQUEOUS SUSPENSION BY NONCONVENTIONAL OPTICAL METHODS</i> , D. CHICEA, Journal of Optoelectronics And Advanced Materials Vol. 15, No. 9 - 10, p. 982 – 988, September – October 2013.

b) PhD Thesis:

NUCLEAR PROCESSES IN METAL-HYDROGEN ISOTOPES SYSTEMS (PROCESE NUCLEARE ÎN SISTEME METAL - IZOTOPI AI HIDROGENULUI)

**Thesis was defended on December 1998 in Babeş-Bolyai, University,
Cluj-Napoca, Romania**

c) Patents

d) Books and book chapters

d.1 Student textbooks, printed by Roumanian printing houses

No.	Title, authors, Printing house, year, number of pages
1	LUCRĂRI PRACTICE DE FIZICA SOLIDULUI - Îndrumar de laborator , Gheorghe Stoicescu, <u>Dan Chicea</u> , Editura Universităţii din Sibiu, Sibiu, 1993, 102 pg.
2	RADIOMETRIE SI RADIOTOXICOLOGIE- Îndrumar de lucrări practice , Gheorghe Dumitru, Marian Pavelescu, Ioan Urian, Florin Antonescu, <u>Dan Chicea</u> , Editura Universităţii din Sibiu, Sibiu, 1994, 140 pg.
3	FIZICĂ GENERALĂ , <u>Dan Chicea</u> , Editura Universităţii “Lucian Blaga” din Sibiu, Martie 1999, ISBN 973-9410-52-9, 140 pg.
4	ELECTRICITATE ŞI MAGNETISM, LUCRARI PRACTICE , <u>Dan Chicea</u> , Editura Universităţii “Lucian Blaga” din Sibiu, Septembrie 1999, ISBN 973-9410-95-2, 150 pg.
5	LUCRĂRI PRACTICE DE MECANICĂ FIZICĂ , <u>Dan Chicea</u> , Editura Universităţii din Sibiu, 2000, ISBN 973-651-086-7, 80 pg.
6	LUCRĂRI DE LABORATOR DE FIZICĂ PENTRU I.D.D. , <u>Dan Chicea</u> , Editura Alma Mater, Sibiu, 2000, ISBN: 973-99974-6-5, 61 pg.
7	FIZICĂ GENERALĂ PENTRU I.D.D. <u>Dan Chicea</u> , Editura Alma Mater, Sibiu, 2000, ISBN: 973-99974-5-7, 110 pg
8	FIZICĂ PENTRU INGINERI , <u>Dan Chicea</u> , Editura Universităţii “Lucian Blaga” din Sibiu, Decembrie 2000, ISBN 973-651-172-3, 180 pagini
9	FIZICĂ – ÎNDRUMAR DE LABORATOR , <u>Dan Chicea</u> , Editura Universităţii Româno-Germane, Sibiu, 2001, 100 pg.
10	LUCRĂRI DE LABORATOR DE FIZICĂ GENERALĂ , <u>Dan Chicea</u> , Editura Universităţii “Lucian Blaga” din Sibiu, Noiembrie 2001, ISBN 973-651-342-4, 120 pg.
11	FIZICĂ PENTRU ÎNVĂŢĂMÂNTUL POLITEHNIC , <u>Dan Chicea</u> , Editura Universităţii “Lucian Blaga” din Sibiu, ISBN 973-651-390-4, 2001, 206 pg.
12	CAPITOLE DE FIZICĂ ATOMICĂ , <u>Dan Chicea</u> , Editura Universităţii “Lucian Blaga” din Sibiu, ISBN 973-8371-13-9, Ianuarie 2002, 82 pg.
13	LUCRĂRI DE LABORATOR DE FIZICĂ NUCLEARĂ , <u>Chicea Dan</u> , Editura Universităţii “Lucian Blaga” din Sibiu, ISBN 973-651-436-6, 2002, 66 pg.
14	LUCRĂRI DE LABORATOR DE FIZICĂ ATOMICĂ <u>Chicea Dan</u> , Editura Universităţii “Lucian Blaga” din Sibiu, 2002, ISBN 973-651-503-6, 122 pg.
15	FIZICĂ NUCLEARĂ , <u>Chicea Dan</u> , Editura Universităţii “Lucian Blaga” din Sibiu, 2004, ISBN 973-651-987-2, 271 pg.
16	FIZICĂ NUCLEARĂ-APLICAŢII , <u>Chicea Dan</u> , Editura Universităţii “Lucian Blaga” din Sibiu, ISBN 973-739-174-8, 2005, 136 pg.

17	LUCRĂRI DE LABORATOR DE FIZICA SOLIDULUI , Răcuci Mihaela, <u>Dan Chicea</u> , Editura Universității "Lucian Blaga" din Sibiu, ISBN 973-739-191-8, 2005, 161 pg.
18	PRELUCRAREA DATELOR EXPERIMENTALE , <u>Dan Chicea</u> , Liana-Maria Chicea, Editura Alma Mater, ISBN 978-973-632-277-8, 2006, 145 pg.
19	INTRODUCERE ÎN MECANICA CUANTICĂ , <u>Dan Chicea</u> , Editura Alma Mater, ISBN 978-973-632-331-7, 2006, 145 pg.
20	MECANICA FLUIDELOR, ELECTRICITATE ȘI MAGNETISM, OPTICĂ , <u>Dan Chicea</u> , Editura Alma Mater, ISBN(13) 978-973-632-332-4, (10)973-632-332-3, 2006, 143 pg.
21	FIZICĂ PENTRU ÎNVĂȚĂMÂNT LA DISTANȚĂ SAU CU FRECVENȚĂ REDUSĂ , Dan Chicea, Editura "ALMA MATER", ISBN 978-973-632-504-5, 2009, 160 pg.
22	LUCRĂRI DE LABORATOR DE FIZICĂ PENTRU ÎNVĂȚĂMÂNT LA DISTANȚĂ SAU CU FRECVENȚĂ REDUSĂ , Dan Chicea, Editura "ALMA MATER", ISBN: 978-973-632-505-1, 2009, 70 pg.
23	LUCRĂRI DE LABORATOR DE FIZICĂ ȘI BIOFIZICĂ , Chicea Dan, Editura Universității Lucian Blaga din Sibiu, ISBN: 978-606-12-0267-8, 2012, 90 pg.
24	METODE RADIOMETRICE : LUCRĂRI PRACTICE , Chicea Dan, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-0376-5 2012, 135 pg.
25	METODE RADIOMETRICE DE ANALIZĂ ȘI CONTROL , Chicea Dan, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-0375-8, 2012, 182 pg.
26	NOȚIUNI DE TERMODINAMICĂ ȘI DE MECANICA FLUIDELOR , Dan Chicea, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-0507-3, 2014, 184 pg.

d.2 Books and chapters in books printed by Roumanian printing houses

No.	Title, authors, Printing house, year, number of pages
1	PROBLEME DE FIZICĂ DE TIP GRILĂ PENTRU ADMITEREA LA FACULTATEA DE MEDICINĂ , <u>Dan Chicea</u> , A. Șerbănescu, M. Gavrilăscu, M. Ungureanu, G. Negrea, A. Gavrilăscu, Editura STECOSTAR, Sibiu, 1996, 204 pg.
2	TESTE GRILĂ DE FIZICĂ PENTRU ADMITEREA LA FACULTATEA DE MEDICINĂ VICTOR PAPILIAN , D. Gh. Stoicescu, <u>Dan Chicea</u> , Anca Șerbănescu-Oașă, M. Gavrilăscu, M. Ungureanu, G. Negrea, A. Gavrilăscu, Editura Universității "Lucian Blaga" din Sibiu, Mai 1997, ISBN 973-97147-1-4, 209 pg.
3	TESTE GRILĂ DE FIZICĂ PENTRU ADMITEREA ÎN FACULTĂȚI , Dorin Gh. Stoicescu, <u>Dan Chicea</u> , A. Șerbănescu, etc., EDITURA TEORA , Noiembrie 1997, 479 pg.
4	PROCESE FIZICE NEOBIȘNUTE ÎN SISTEME METAL-IZOTOPI AI HIDROGENULUI , <u>Dan Chicea</u> , Editura Universității "Lucian Blaga" din Sibiu, Aprilie 2000, ISBN 973-651-085-9, 130 pg.
5	SPECTROMETRIE DE NEUTRONI , Chicea Dan, Editura Universității "Lucian Blaga" din Sibiu, 2002, ISBN 973-651-458-7, 132 pg.
6	CALCUL NUMERIC ÎN FIZICĂ FOLOSIND MATLAB , <u>Dan Chicea</u> , Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-973-739-390-6, 2007, 222 pg.
7	APA – RESURSA FUNDAMENTALĂ A DEZVOLTĂRII DURABILE –VOLUMUL III – METODE ȘI TEHNICI NECONVENȚIONALE DE EPURARE ȘI TRATARE A APEI , coordonator Letiția Oprean, EDITURA ACADEMIEI ROMÂNE, BUCUREȘTI, 2012, ISBN: 978-973-27-2269-5, CAPITOLUL 34 – CHICEA DAN, pg: 258-263, 6 pagini.

d.3 Books and chapters in books printed by international printing houses

No.	Title, authors, Printing house, year, number of pages
1	THE “KIT PROJECT” REPORT , George H. Miley, (P.I.), <u>Dan Chicea</u> , Mike Williams, Andy Tate, Giovana Selvaggi, Maria Okuniewski, University of Illinois at Urbana-Champaign Press, November 1999, 99 pg.
2	In: CONDENSED MATTER NUCLEAR SCIENCE , Peter I. Hagelstein, Scott R. Chubb editors, Dash J. And Chicea D. Authors, pages: 463-474, WORLD SCIENTIFIC, 2004, ISBN 981-256-564-7, pg. 463-474 (chapter name: EFFECTS OF HYDROGEN LOADING BY AQUEOUS ELECTROLYSIS ON RADIOACTIVITY OF URANIUM), 12 pages
3	In: CONDENSED MATTER NUCLEAR SCIENCE , Peter I. Hagelstein, Scott R. Chubb editors, Chicea D. Author, WORLD SCIENTIFIC, 2004, ISBN 981-256-564-7, pg. 475-482, (Chapter name: COMMENT ON CARBON PRODUCTION IN DEUTERIUM-METAL SYSTEMS), 8 pages.
4	IN: ENGINEERING MATERIALS Volume 0, Part 6, 2010, Trends in Nanophysics, Theory, Experiment and Technology, Victor Bârsan and Alexandru Aldea editors, D. Chicea author, pages 331 – 350, DOI: 10.1007/978-3-642-12070-1, 20 pages.

e) Articles published in International Scientific journals

e.1 Articles published in ISI rated journals with impact factor

No.	Article title, authors, Journal name, volume, pages, year
1	LOW INTENSITY NEUTRON EMISSION FROM TID_x SAMPLES UNDER NON-EQUILIBRIUM CONDITIONS , <u>Dan Chicea</u> , Dan Lupu, Fusion Technology , vol. 39, issue 1, pp.108-113, January 2001.
2	TESTING A NEW MULTIPLE LIGHT SCATTERING PHASE FUNCTION USING RWMCS , <u>D. Chicea</u> , I. Turcu, Journal of Optoelectronics and Advanced Materials, Vol. 8, No. 4, 1516-1519, August 2006.
3	RWMCS - AN ALTERNATIVE RANDOM WALK MONTE CARLO CODE TO SIMULATE LIGHT SCATTERING IN BIOLOGICAL SUSPENSIONS , <u>Dan Chicea</u> , Ioan Turcu, OPTIK-International Journal for Light and Electron Optics, Vol 118/5 pp 232-236, 2007, DOI information: 10.1016/j.ijleo.2006.02.008
4	RESULTS OF LIGHT SCATTERING DYNAMICS ANALYSIS OF BIOLOGICAL FLUIDS , <u>Dan Chicea</u> , Liana Maria Chicea, Journal of Optoelectronics and Advanced Materials vol. 9, no. 3, 694-697, March 2007.
5	ON MAGNETIC FLUID SYNTHESIS AND LIGHT SCATTERING ANISOTROPY PARAMETER , <u>Dan Chicea</u> , M. Răcuciu, Journal of Optoelectronics and Advanced Materials Vol. 9, No. 9, p. 2738 – 2742, September 2007.
6	SPECKLE SIZE, INTENSITY AND CONTRAST MEASUREMENT APPLICATION IN MICRON-SIZE PARTICLE CONCENTRATION ASSESSMENT , <u>Dan Chicea</u> , European Physical Journal Applied Physics vol. 40, pg.305-310 (2007), DOI: 10.1051/epjap:2007163
7	ON LIGHT SCATTERING ANISOTROPY OF BIOLOGICAL FLUIDS (URINE) CHARACTERIZATION Dan Chicea, L.M. Chicea, Romanian Journal of Physics, Volume 52, Numbers 3-4, pp 355-360, 2007.
8	BIOSPECKLE SIZE AND CONTRAST MEASUREMENT APPLICATION IN PARTICLE SIZING AND CONCENTRATION ASSESSMENT , Dan Chicea, Romanian Journal of Physics, Volume 52, Numbers 5-7, pp. 581-587, 2007.
9	ON THE EFFECTS OF LOW DOSES (0-1.2 GY) BETA RADIATION OF ZEA MAYS SEEDS

	<i>ON 12 DAYS PLANTLETS</i> , Dan Chicea, Mihaela Racuciu, Romanian Journal of Physics, Volume 52, Numbers 5-7, pp.632-640, 2007.
10	<i>ON LOW CONCENTRATION AQUEOUS MAGNETIC FLUID LIGHT SCATTERING PROPERTIES</i> , Dan Chicea, M. Răcuciu, Journal of Optoelectronics and Advanced Materials Vol. 9, No. 12, p. 3843 – 3846, December 2007.
11	<i>COHERENT LIGHT SCATTERING ON NANOFLUIDS - COMPUTER SIMULATION RESULTS</i> , Dan Chicea, Applied Optics, Vol. 47, No. 10 April 1, pp. 1434-1442, 2008.
12	<i>ON HEAVY METAL LEVELS VARIATION IN TARNAVA MARE RIVER DURING 2003</i> , Dan Chicea, Adriana Morariu, Mihaela Racuciu, Romanian Journal of Physics, Vol. 53, Nos. 1-2, pp. 165-170, 2008.
13	<i>RESULTS OF ZEA MAYS SEEDS B IRRADIATION IN 0 - 5 GY RANGE</i> , Dan Chicea, Mihaela Racuciu, Romanian Journal of Physics, Vol. 53, Nos. 1-2, pp 171-177, 2008.
14	<i>MAGNETIC FLUID PARTICLE SIZING BY COHERENT LIGHT SCATTERING. COMPUTER SIMULATION RESULTS</i> , Dan Chicea, Journal of Optoelectronics and Advanced Materials Vol. 10, No. 2, p. 264 – 268, February 2008.
15	<i>HIGH ACCURACY PHOTOPYROELECTRIC INVESTIGATIONS OF DYNAMIC THERMAL PARAMETERS OF FLUIDS</i> , Dorin Dadarlat, Camelia Neamtu, Mihaela Streza, Dan Chicea, Aurel Pasca, Journal of Optoelectronics and Advanced Materials Vol. 10, No. 2, p. 264 – 268, February 2008
16	<i>COHERENT LIGHT SCATTERING ON RBCS - EXPERIMENTAL RESULTS AND POSSIBLE BIOMEDICAL APPLICATION</i> , Dan Chicea,, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Vol. 10, No. 3, p. 689 – 692, March 2008.
17	<i>NANOPARTICLE SIZING BY COHERENT LIGHT SCATTERING – COMPUTER SIMULATION RESULTS</i> , Dan Chicea, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Vol. 10, No. 4, p. 813-818, April 2008.
18	<i>APPLICATION OF WHOLE BLOOD COHERENT LIGHT SCATTERING DYNAMICS ANALYSIS</i> , Dan Chicea, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Vol. 10, No. 8, p. 2163-2167 , July 2008.
19	<i>RESULTS OF PHYSICAL AND CHEMICAL PARAMETERS MONITORING OF THE “RĂUL MARE” RIVER</i> , Letitia Oprean, Dan Chicea, Eniko Gaspar, Ecaterina Lengyel, Romanian Journal of Physics, Vol. 53, Nos. 7-8, 2008, pp. 947-954.
20	<i>STRUCTURAL INVESTIGATIONS OF SOME TRANSITIONAL METALS WITH HYSTIDINE AS LIGAND</i> , A. MARCU, A. STANILA, M. RUSU, D. CHICEA, L. DAVID, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Vol. 10, No. 9, September 2008, p. 2351 – 2354
21	<i>STUDIES ON STATIC AND DYNAMIC LIGHT SCATTERING PROPERTIES OF WATER BASED MAGNETIC FLUID</i> , Dan Chicea, Mihaela Răcuciu, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Vol 10, No.12, Dec., 2008, p. 3317-3321.
22	<i>AN ALTERNATIVE ALGORITHM TO CALCULATE THE BIOSPECKLE SIZE IN COHERENT LIGHT SCATTERING EXPERIMENTS</i> , Dan Chicea, Romanian Journal of Physics, Vol. 54, Nos. 1-2, 2009, p147-157.
23	<i>ON AQUEOUS Fe_3O_4 NANOFLUID ROOM TEMPERATURE SYNTHESIS AND PHYSICAL PROPERTIES</i> , D. Chicea, C. M. Goncea, Optoelectronics and Advanced Materials – Rapid Communications vol. 3, no. 3, march 2009, p. 185 – 189
24	<i>ALTERNATIVE PHOTOPYROELECTRIC DETECTION METHOD OF PHASE TRANSITIONS IN FERROELECTRIC MATERIALS</i> , D. Dadarlat, D. Chicea, N. Houriez, S. Delenclos, S. Longuemart, A. Hadj Sahraoui, Optoelectronics and Advanced Materials – Rapid Communications vol. 3, no. 4, april 2009, p. 323 - 325
25	<i>REVEALING Fe_3O_4 NANOPARTICLES AGGREGATION DYNAMICS USING DYNAMIC LIGHT SCATTERING</i> , D. Chicea, Optoelectronics and Advanced Materials – Rapid Communications vol. 3, no. 12, November 2009, p. 1299 – 1305
26	<i>PROBING PARTICLE AGGREGATION IN AQUEOUS SUSPENSIONS BY LIGHT SCATTERING ANISOTROPY MEASUREMENTS</i> , D. Chicea, Journal of Optoelectronics and Advanced Materials vol. 12, no. 1, January 20, 2010, p. 152 – 158

27	PROBING MAGNETIC FLUID NANOPARTICLE AGGREGATION IN AQUEOUS SUSPENSIONS BY COHERENT LIGHT SCATTERING ANISOTROPY MEASUREMENT , D. Chicea, Journal of Optoelectronics and Advanced Materials Vol. 12, No. 4, April 2010, p.858 - 863
28	NANOPARTICLES AND NANOPARTICLE AGGREGATES SIZING BY DLS AND AFM , D. Chicea, Optoelectronics and Advanced Materials – Rapid Communications vol. 4, issue 9, September 15, 2010, p. 1310 – 1315.
29	THE SYNTHESIS AND PROPERTIES OF MAGNETIC NANOPARTICLES COATED WITH BIOCOMPATIBLE COMPOUNDS , M.Răcuciu, D.E. Creangă, A.Airinei, D.Chicea, V. Bădescu, MATER SCI-POLAND Vol. 28 No:3, 2010, pp. 209-216
30	THE APPLICATION OF AFM FOR BIOLOGICAL SAMPLES IMAGING , D. Chicea, B. Neamtu, R. Chicea, L. M. Chicea, Digest Journal of Nanomaterials and Biostructures Vol. 5, No 4, October-December 2010, p. 1015-1022
31	INVESTIGATION OF FE(3)O(4) NANOPARTICLE AGGREGATION IN AQUEOUS SUSPENSIONS BY COHERENT LIGHT SCATTERING , Chicea D., JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Vol: 12 Issue: 11, P: 2208-2213, NOV 2010
32	A STUDY OF NANOPARTICLE AGGREGATION BY COHERENT LIGHT SCATTERING , Dan Chicea, Current Nanoscience, vol. 8 issue 6, pp. 259-265, 2012, doi: http://dx.doi.org/10.2174/157341312800167704
33	ASSESSING FE₃O₄ NANOPARTICLE SIZE BY DLS, XRD AND AFM D. CHICEA, E. INDREA, C. M. CRETU, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Vol: 14 Issue: 5-6, pp: 460-466, June 2012.
34	HSA PARTICLE SIZE CHARACTERIZATION BY AFM , D. Chicea, Radu Chicea, Liana Maria Chicea, Romanian Reports in Physics, Vol. 65, No. 1, P. 178–185, 2013
35	REVEALING FE₃O₄ NANOPARTICLE AGGREGATION IN AQUEOUS SUSPENSION BY NONCONVENTIONAL OPTICAL METHODS , D. CHICEA, Journal of Optoelectronics And Advanced Materials Vol. 15, No. 9 - 10, p. 982 – 988, September – October 2013.

e.2 Articles published in ISI indexed journals and in journals indexed in international databases

No	Article title, authors, Journal name, volume, pages, year
1	EXPERIMENTAL EVIDENCE OF NEUTRON EMISSION FROM TID_x SAMPLES , Dan Chicea, D. Lupu, I. Chereji, Hadronic Journal Vol. 21, pp. 567-582, 1998., http://www.hadronicpress.com/hadronic_journal.htm
2	ABOUT THE RANDOM NEUTRON EMISSION FROM TID_x SAMPLES , Chicea D., Lupu D., Romanian Reports in Physics, No. 1-2, 1999.
3	RESULTS OF SEM ANALYSIS ON DIFFERENT METAL SURFACES AFTER HYDROGEN ABSORPTION , Dan Chicea, Hadronic Journal, Volume 25, Number 4, pp.443-458, August 2002, http://www.hadronicpress.com/hadronic_journal.htm
4	Results Of EDS Uranium Samples Characterization After Hydrogen Loading , D. CHICEA, J.DASH, Romanian Reports in Physics, Vol. 56. no. 2, pp. 282-293, 2004
5	On Metal Pollution in Copșa Mica Area , Dan Chicea, Horia Barbu, Romanian Reports in Physics, Vol. 56. no. 4, pp. 769-776, 2004
6	A Random Walk Monte Carlo Approach to Simulate Multiple Light Scattering on Biological Suspensions , Dan Chicea, Ioan Turcu, Romanian Reports in Physics, Vol. 57. no. 3, pp. 418-425, 2005
7	Computer Simulation Results of Light Scattered on Red Blood Cells , Dan Chicea, Romanian Journal of Physics, Volume 51, Numbers 3-4, pp. 403-409, 2006
8	Using Chodin to Simulate Coherent Light Scattering Dynamics on Biological Suspensions , Dan Chicea, Radu Chicea, Liana Maria Chicea, ROMANIAN J. BIOPHYS., Vol. 20, No. 2, P. 157–170, 2010
9	Using Dynamic Light Scattering Particle Sizing as A Fast Screening Procedure for Urine Sample Analysis , Dan Chicea, Radu Chicea, Liana Maria Chicea, ROMANIAN J. BIOPHYS., Vol. 20, No.3,

	P. 257-267, 2010
10	<i>A Coherent Light Scattering Procedure to Measure Very Small Concentration of Organic Suspension In Natural Water</i> , Dan Chicea, Transylvanian Review of Systematical and Ecological Research vol 14, nr. 2, pp. 1-8, 2012.
11	<i>Estimating Particle Concentration in Natural Water by Speckle Contrast</i> ; Dan CHICEA, Transylvanian Review of Systematical and Ecological Research vol 15.1, nr. 2, pp. 1-10, 2013.
12	<i>Estimating Particle Concentration in Natural Water by Far Field Speckle Intensity</i> ; Dan CHICEA and Liana-Maria CHICEA, Transylvanian Review of Systematical and Ecological Research vol 15.2, pp:1-8, 2013.
13	<i>Estimating wine yeast concentration by speckle size measurement</i> , Dan CHICEA, Ovidiu TIȚA, Mihaela TIȚA, Ecaterina LENGYEL, Acta Universitatis Cibiniensis Series E: Food Technology, vol.17, no.1, pp:3-12, 2013, DOI: 10.2478/aucft-2013-0001

e.3 Articles published in journals indexed in dedicated international databases

No	Article title, authors, Journal name, volume, pages, year
1	<i>ELECTRON SCREENING AND THE COLD FUSION IN CONDENSED MATTER</i> , <u>Dan Chicea</u> , „COLD FUSION”, Issue No. 14, December 1995, pp. 2-3
2	<i>MICROSCOPIC ACCELERATION MECHANISM AND COLD FUSION IN DEUTERATED MATERIALS</i> , <u>Dan Chicea</u> , „Fusion Facts” (ISSN 1051-8738) September 1996, pp. 17-18.
3	<i>ELECTRON CLUSTERS-POSSIBLE DEUTERIUM FUSION CATALISER</i> , <u>Dan Chicea</u> , Journal of New Energy, vol.2, no1, pp. 37-43, 1997.
4	<i>MICROSCOPIC ACCELERATION MECHANISM OF COLD FUSION IN DEUTERATED MATERIALS</i> , <u>Dan Chicea</u> , Journal of New Energy, vol.2, no1, pp. 99-102, 1997.
5	<i>ABOUT ENERGY FLUCTUATIONS AND THE LOW ENERGY NUCLEAR REACTIONS IN CONDENSED MATTER</i> , <u>Dan Chicea</u> , Elemental Energy, issue 22, pp.36-39, July 1997.
6	<i>ABOUT NUCLEAR REACTIONS IN CONDENSED MATTER</i> , <u>Dan Chicea</u> , Balkan Physics Letters, Vol. 5, pp. 305-310, 1997
7	<i>A NOTE ON LOW ENERGY NUCLEAR REACTIONS IN CONDENSED MATTER</i> , <u>Dan Chicea</u> , Journal of New Energy, Vol. 3, No. 1, pp.30-32, 1998
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63	<i>Investigating Nanoparticle Aggregation Dynamics In An Aqueous Magnetic Fluid By Light Scattering Anisotropy</i> , Dan CHICEA, 10th International Balkan Workshop on Applied Physics, July 6-8, 2009, CONSTANTA, ROMANIA
64	<i>A Comment On Physics Education In Romania</i> , <u>Dan Chicea</u> Dumitru Batâr, Dorin Stoicescu, Aurel Paşca, 10th International Balkan Workshop on Applied Physics, July 6-8, 2009, CONSTANTA, ROMANIA
65	<i>Computer Simulation of Coherent Light Scattering Dynamics on Nanofluids</i> , Chicea Dan, Workshop on Trends in Nanoscience: Theory, Experiment, Technology, August 23-30, 2009, Sibiu, Romania
66	<i>Revealing Nanoparticle Aggregation Dynamics By Light Scattering Anisotropy Measurement</i> , Chicea Dan, Workshop on Trends in Nanoscience: Theory, Experiment, Technology, August 23-30, 2009, Sibiu, Romania, published in Trends in Nanophysics Engineering Materials, 2010, Volume 0, Part 6, 331-350, DOI: 10.1007/978-3-642-12070-1_15, Springer-Verlag Berlin Heidelberg 2010.
67	<i>Investigating Nanoparticle Aggregation Dynamics in an Aqueous Magnetic Fluid by Light Scattering Anisotropy</i> , Dan Chicea, Intl. Conference “Micro- to Nano-Photonics II - ROMOPTO 2009”, August 31- September 3, 2009, Sibiu, Romania, published in Proc. of SPIE 2009, vol. 7469, 74690O-1-9, doi:10.1117/12.865610
68	<i>Using CHODIN to simulate the dynamics of coherent light scattering on nanofluids</i> , Dan CHICEA, Intl. Conference “Micro- to Nano-Photonics II - ROMOPTO 2009”, August 31-September 3, 2009, Sibiu, Romania, published in Proceedings of the SPIE, Volume 7469, pp. 74690B-1-74690B-8 (2009), doi: 10.1117/12.866768 .
69	<i>Measuring very small concentrations in organic suspensions by coherent light scattering</i> , Dan Chicea , Intl. Conference “Micro- to Nano-Photonics II - ROMOPTO 2009”, August 31- September 3, 2009, Sibiu, Romania, , published in Proc. of SPIE 2009, vol. 7469, pp. 74690P-1-6, doi: 10.1117/12.861750 .
70	<i>Using DLS for Fast Urine Sample Analysis</i> , D. Chicea, R. Chicea, and L. M. Chicea AIP Conf. Proc. -- August 4, 2010 -- Volume 1262, pp. 150-154 Proceedings of the Physics Conference TIM-9; doi:10.1063/1.3482223
71	<i>Monitoring Nanoparticle Aggregation by Coherent Light Scattering Measurements</i> , Dan Chicea, Physics Conference TIM-09, 27-28 November 2009, Timisoara, Romania
72	<i>Imaging Human Serum Albumin</i> , Dan Chicea, Liana Maria Chicea, Radu Chicea , Dan Chicea, Physics Conference TIM-10, 25-27 November 2010, Timisoara, Romania, AIP Conf. Proc. -- October 3, 2011 -- Volume <u>1387</u> , pp. 247-252 doi:10.1063/1.3647082, Issue Date: 3 October 2011
73	<i>A Monte Carlo Simulation of Light Scattering on Biological Suspensions with Bigger Optical Depth</i> , Chicea, Dan, Physics Conference TIM - 11 Timisoara, ROMANIA: NOV 24-27, 2011, PROCEEDINGS OF THE PHYSICS CONFERENCE TIM - 11 Book Series: AIP Conference Proceedings Volume: 1472 Pages: 230-237 DOI: 10.1063/1.4748093 Published: 2012
74	<i>Estimating Particle Concentration in Natural Water by Speckle Size Measurement</i> , Dan Chicea, Proc. of 11th International Conference on Environment, Ecosystems and Development (EED '13), Braşov, Romania, June 1-3, 2013, pp.156-161, ISBN: 978-1-61804-195-1.

75	<i>Water Suspension Analysis by Modified Dynamic Light Scattering</i> , Dan Chicea, Proc. of 11th International Conference on Environment, Ecosystems and Development (EED '13), Braşov, Romania, June 1-3, 2013, pp.40-49, ISBN: 978-1-61804-195-1.
76	<i>Monitoring nanoparticle aggregation by optical procedures</i> , Dan Chicea, PROCEEDINGS OF THE PHYSICS CONFERENCE TIM - 11 Book Series: AIP Conf. Proc. 1564, pages: 84-89, (2013); http://dx.doi.org/10.1063/1.4832800

f) Other scientific contribution

f.1. Invited seminars and presentation given in universities and international conferences

Nr.	Title, location, date
1	<i>AN IMPROVED ALGORITHM FOR EVENT TIMING</i> , Dan Chicea, seminar, NIKHEF-K (Institutul Naţional de Fizică Nucleară și Fizica Energiilor Înalte), Amsterdam, August 30, 1993.
2	<i>SEARCH FOR VERY LOW ENERGY NUCLEAR REACTIONS IN METAL-HYDROGEN ISOTOPES SYSTEMS</i> , Dan Chicea, seminar, DEPARTMENT OF NUCLEAR, PLASMA, AND RADIOLOGICAL ENGINEERING, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN, Septembrie 14, 1999, room 100, Metallurgy & Mining Building, 4:00 pm.
3	<i>ELECTROLYSIS EXCESS POWER CELLS</i> , DEPARTMENT OF NUCLEAR, PLASMA, AND RADIOLOGICAL ENGINEERING, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN, Noiembrie 10, 1999, room 11, first floor, 10:00 am.
4	<i>LOW ENERGY NUCLEAR REACTIONS IN SOLIDS</i> , Dan Chicea, seminar, EPCOR, Edmonton, Alberta, Canada, Septembrie 20, 2000, ora 2:00 pm.
5	<i>COMMENTS ON AN INTERESTING EXPERIMENTAL FEATURE IN ELECTROLYSIS LOADING EXPERIMENTS</i> , Dan Chicea, International Symposium on New Energy October 26-27 2001, Quality Inn City Center, Salt Lake City, USA, ora 11:00 am.
6	Dan CHICEA <i>A MONTE CARLO SIMULATION OF LIGHT SCATTERING ON BIOLOGICAL SUSPENSIONS WITH BIGGER OPTICAL DEPTH</i> , International Conference TIM 11, November 2011, Timisoara, Romania

f.2 List of new courses, new laboratories and new seminars I prepared and lectured for the first time in University Lucian Blaga of Sibiu

No	Title of the course, laboratory or seminar (in Roumanian)
1	<i>Prelucrarea datelor experimentale în Fizică, curs</i> , ciclul de studii de licență, anul II Fizică Chimie, și anul III Matematică Fizică, Facultatea de Științe, 2 serii a 25 studenți/ serie.
2	<i>Prelucrarea datelor experimentale în Fizică, laborator</i> , ciclul de studii de licență, anul II Fizică Chimie, și anul III Matematică Fizică, Facultatea de Științe, 4 semigrupe a 12 studenți/ semigrupă, 10 lucrări de laborator nou introduse.
3	<i>Fizică Atomică și Moleculară, curs</i> , ciclul de studii de licență, anul III Fizică Chimie, și anul III Matematică Fizică, Facultatea de Științe, 2 serii a 25 studenți/ serie.
4	<i>Fizică Atomică și Moleculară, laborator</i> , ciclul de studii de licență, anul III Fizică Chimie, și anul III Matematică Fizică, Facultatea de Științe, 4 semigrupe a 12 studenți/ semigrupă, 6 lucrări de laborator nou introduse.
5	<i>Fizică Cuantică, curs</i> , ciclul de studii de licență, anul III Fizică Chimie, și anul III Matematică Fizică, Facultatea de Științe, 2 serii a 25 studenți/ serie.

6	Fizică Cuantică, seminar , ciclul de studii de licență, anul III Fizică Chimie, și anul III Matematică Fizică, Facultatea de Științe, 2 serii a 25 studenți/ serie.
7	Fizică Nucleară 1, curs , ciclul de studii de licență, anul IV Fizică Chimie, și anul IV Matematică Fizică, Facultatea de Științe, semestrul I, 2 serii a 25 studenți/ serie.
8	Fizică Nucleară 1, laborator , ciclul de studii de licență, anul IV Fizică Chimie, și anul IV Matematică Fizică, Facultatea de Științe, semestrul I, 4 semigrupe a 12 studenți/ semigrupă, 8 lucrări de laborator nou introduse.
9	Fizică Nucleară 2, curs , ciclul de studii de licență, anul IV Fizică Chimie, și anul IV Matematică Fizică, Facultatea de Științe, semestrul II, 2 serii a 25 studenți/ serie.
10	Fizică Nucleară 2, laborator , ciclul de studii de licență, anul IV Fizică Chimie, și anul IV Matematică Fizică, Facultatea de Științe, semestrul II, 4 semigrupe a 12 studenți/ semigrupă, 4 lucrări de laborator nou introduse.
11	Spectroscopie nucleară și dozimetrie, curs , ciclul de studii de licență, anul IV Fizică Chimie, Facultatea de Științe, semestrul I, o serie a 25 studenți.
12	Spectroscopie nucleară și dozimetrie, laborator , ciclul de studii de licență, anul IV Fizică Chimie, Facultatea de Științe, semestrul I, 2 semigrupe a 12 studenți/ semigrupă.
13	Fizică Computațională, curs , ciclul de studii de licență, anul IV Fizică Chimie, Facultatea de Științe, semestrul II, o serie a 25 studenți.
14	Fizică Computațională, laborator , ciclul de studii de licență, anul IV Fizică Chimie, Facultatea de Științe, semestrul II, o serie a 25 studenți.
15	Metode radiometrice de expertiză și control a alimentelor - curs , anul III, Controlul și expertizarea alimentelor, Facultatea de ȘTIINTE AGRICOLE INDUSTRIE ALIMENTARA SI PROTECTIA MEDIULUI, semestrul I, o serie a 60 studenți.
16	Metode radiometrice de expertiză și control a alimentelor - laborator , anul III, Controlul și expertizarea alimentelor, Facultatea de ȘTIINTE AGRICOLE INDUSTRIE ALIMENTARA SI PROTECTIA MEDIULUI, semestrul I, 4 semigrupe a 15 studenți fiecare.
17	Biofizică curs , ciclul de studii de licență, anul I Ingineria produselor alimentare, Inginerie și management în alimentație publică și agroturism, Controlul și expertizarea alimentelor, Biotehnologii pentru industria alimentară Facultatea de ȘTIINTE AGRICOLE INDUSTRIE ALIMENTARA SI PROTECTIA MEDIULUI, semestrul I, o serie a 150 studenți
18	Biofizică laborator , ciclul de studii de licență, anul I Ingineria produselor alimentare, Inginerie și management în alimentație publică și agroturism, Controlul și expertizarea alimentelor, Biotehnologii pentru industria alimentară Facultatea de ȘTIINTE AGRICOLE INDUSTRIE ALIMENTARA SI PROTECTIA MEDIULUI, semestrul I, 9 semigrupe, 4 lucrări de laborator nou introduse
19	Nanomateriale și nanotehnologii , ciclul de studii de licență, sem. I. anul II medicină dentară, Facultatea de Medicină Victor Păpilian, 30 studenți.

April 29, 2014

Dan Chicea, Prof, Eng., PhD