

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Dan Chicea**
Address(es) 27A Calea Dumbravii, 550324, Sibiu, Romania
Telephone(s) 0269-217802(work),
Fax(es)
E-mail dan.chicea@ulbsibiu.ro
Nationality Romanian
Date of birth 29.03.1963
Gender male

Work experience

<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>October 2008 - present</p> <p>Professor, Habil. head of the Physics Dept from 2000 to 2012 Director of the Research Center for Pediatric Respiratory Medicine</p> <p>I give lectures, conduct seminars and laboratory works on Biophysics, General Physics, Applied Nuclear Physics; conduct research on nanofluids synthesis and characterisation, on coherent light scattering, on Computational Physics; I coordinate the activity of the Physics Dept.</p> <p>“Lucian Blaga” University of Sibiu, B-dul Victoriei 10, Sibiu, 550024, Romania</p> <p>Higher education</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>October 1999 – September 2008</p> <p>Associate Professor, (head of the Physics Dept. since February 2000)</p> <p>I gave lectures, conducted seminars and laboratory works on Biophysics, Atomic Physics, Nuclear Physics, Quantum Mechanics, Computational Physics; I conducted research on coherent light scattering on suspensions, on Computational Physics, on low energy nuclear reactions; I coordinated the activity of the Physics Dept.</p> <p>“Lucian Blaga” University of Sibiu, B-dul Victoriei 10, Sibiu, 550024, Romania</p> <p>Higher education</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p>	<p>October 1996 – September 1999</p> <p>Lecturer</p> <p>I gave lectures, conducted seminars and laboratory works on Atomic Physics, Computational Physics, General Physics; I conducted research on Computational Physics, on Low Energy Nuclear Reactions;</p> <p>“Lucian Blaga” University of Sibiu, B-dul Victoriei 10, Sibiu, 550024, Romania</p>

Type of business or sector	Higher education
Dates	September 1990 - September 1996
Occupation or position held	Assistant Professor
Main activities and responsibilities	Conducted seminars and laboratory works on General Physics, Solid State Physics, Nuclear Reactors Physics
Name and address of employer	"Lucian Blaga" University of Sibiu, B-dul Victoriei 10, Sibiu, 550024, Romania
Type of business or sector	Higher education
Dates	September 1987 – September 1990
Occupation or position held	Computer programmer and Analyst
Main activities and responsibilities	Performed system analysis and wrote computer codes for civil engineering
Name and address of employer	Mechanical Enterprise Mirsa
Type of business or sector	Civil Engineering

Education and training

Dates	February 2003 – August 2003
Title of qualification awarded	Visiting Research Associate Professor
Principal subjects/occupational skills covered	Metal hydrides, Scanning Electron Microscopy, Gamma Ray spectroscopy, Very low Intensity nuclear radiation detection
Name and type of organisation providing education and training	Portland State University, Oregon, U.S.A.
Level in national or international classification	
Dates	July 1999 – January 2000
Title of qualification awarded	Postdoc
Principal subjects/occupational skills covered	Metal Hydrides, thin films deposition by spattering, secondary ion mass spectroscopy
Name and type of organisation providing education and training	University of Illinois at Urbana Champaign (U.I.U.C)
Level in national or international classification	
Dates	March 1993 - December 1998
Title of qualification awarded	PhD. in Atomic Physics
Principal subjects/occupational skills covered	in Atomic Physics, in Nuclear Physics, Condensed Matter Physics
Name and type of organisation providing education and training	University Babes-Bolyai, Cluj Napoca
Level in national or international classification	A
Dates	June 1993 - August 1993

Title of qualification awarded	Tempus Scholar
Principal subjects/occupational skills covered	Heavy ions nuclear reaction in a storage ring
Name and type of organisation providing education and training	N.I.K.H.E.F. Amsterdam
Dates	October 1987 – March 1988
Title of qualification awarded	System Analyst and Computer Programator
Principal subjects/occupational skills covered	System Analysis, Computer Programming
Name and type of organisation providing education and training	Centrul teritorial de calcul Sibiu
Level in national or international classification	
Dates	September 1982-July 1987
Title of qualification awarded	Licence in Physics Engineering
Principal subjects/occupational skills covered	
Name and type of organisation providing education and training	University of Bucuresti, Faculty of Physics
	A

Personal skills and competences

Mother tongue(s) **Specify mother tongue Romanian**

Other language(s)

Self-assessment
European level ()*

English

Russian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
A1		A1		A1		A1		A1	

(*) [Common European Framework of Reference for Languages](#)

Organisational skills and competences

Direct a small group of researchers; 12 years experience as head of the Physics Department, recently called the Physics Group
 Good communication skills
 Good ability to adapt to multicultural environments
 Able to build relationships through appropriate communication
 Show interest and observe other people opinion
 Understands the behavior of different groups of people

Computer skills and competences

MATLAB, Fortran, Pascal, Microsoft Office

Additional information**Reviewer for the following journals:**

- Current Nanoscience,
- Journal of Biomedical Optics,
- Optics Communications,
- Fusion Science and Technology,
- Optical Engineering
- Optics Express

Organizer and co-organizer of 11 international conferences and national conferences with international presence**Affiliation to scientific organizations**

- European Physical Society
- Romanian Physical Society,
- The International Society for Condensed Matter Nuclear Science
- The Institute of New Energy
- The American Nanosociety

Scientific and Professional Contributions

4 chapters in books published by international printing houses

26 student text books and other 7 physics books and chapter in books

Coauthor of a book and of 4 chapters in books printed in international printing houses

18 new courses and laboratories in ULBS

9 research projects I worked for

38 articles published in ISI rated journals with impact factor

24 articles published in peer reviewed journals indexed in international databases

31 articles published in CNCSIS indexed journals

76 works published in proceeding of international conferences

(details in annex)

My Hirsh h factor is 6, as of ISI web of knowledge, on October 2014

Chicea Dan

List of published work – Dan Chicea

Student textbooks (In Roumanian)

- | No. | Title, authors |
|-----|--|
| 1 | LUCRĂRI PRACTICE DE FIZICA SOLIDULUI - Îndrumar de laborator , Gheorghe Stoicescu, <u>Dan Chicea</u> , University Lucian Blaga of Sibiu Press, 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 Universității din Sibiu, Sibiu, 1994, 140 pg. |
| 3 | FIZICĂ GENERALĂ , <u>Dan Chicea</u> , University Lucian Blaga of Sibiu Press, Martie 1999, ISBN 973-9410-52-9, 140 pg. |
| 4 | ELECTRICITATE ȘI MAGNETISM, LUCRARI PRACTICE , <u>Dan Chicea</u> , University Lucian Blaga of Sibiu Press, Septembrie 1999, ISBN 973-9410-95-2, 150 pg. |
| 5 | LUCRĂRI PRACTICE DE MECANICĂ FIZICĂ , <u>Dan Chicea</u> , University of Sibiu Press, 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> , University Lucian Blaga of Sibiu Press, Decembrie 2000, ISBN 973-651-172-3, |
| 9 | FIZICĂ – ÎNDRUMAR DE LABORATOR , <u>Dan Chicea</u> , Editura Universității Româno-Germane, Sibiu, 2001, 100 pg. |
| 10 | LUCRĂRI DE LABORATOR DE FIZICĂ GENERALĂ , <u>Dan Chicea</u> , University Lucian Blaga of Sibiu Press, Noiembrie 2001, ISBN 973-651-342-4, 120 pg. |
| 11 | FIZICĂ PENTRU ÎNVĂȚĂMÂNTUL POLITEHNIC , <u>Dan Chicea</u> , University Lucian Blaga of Sibiu Press, ISBN 973-651-390-4, 2001, 206 pg. |
| 12 | CAPITOLE DE FIZICĂ ATOMICĂ , <u>Dan Chicea</u> , University Lucian Blaga of Sibiu Press, ISBN 973-8371-13-9, Ianuarie 2002, 82 pg. |
| 13 | LUCRĂRI DE LABORATOR DE FIZICĂ NUCLEARĂ , Chicea Dan, University Lucian Blaga of Sibiu Press, ISBN 973-651-436-6, 2002, 66 pg. |
| 14 | SPECTROMETRIE DE NEUTRONI , Chicea Dan, University Lucian Blaga of Sibiu Press, 2002, ISBN 973-651-458-7, 132 pg. |
| 15 | LUCRĂRI DE LABORATOR DE FIZICĂ ATOMICĂ <u>Chicea Dan</u> , University Lucian Blaga of Sibiu Press, 2002, ISBN 973-651-503-6, 122 pg. |
| 16 | FIZICĂ NUCLEARĂ , <u>Chicea Dan</u> , University Lucian Blaga of Sibiu Press, 2004, ISBN 973-651-987-2, 271 pg. |
| 17 | FIZICĂ NUCLEARĂ-APLICAȚII , <u>Chicea Dan</u> , University Lucian Blaga of Sibiu Press, ISBN 973-739-174-8, 2005, 136 pg. |
| 18 | LUCRĂRI DE LABORATOR DE FIZICA SOLIDULUI , Răuciu Mihaela, <u>Dan Chicea</u> , University Lucian Blaga of Sibiu Press, ISBN 973-739-191-8, 2005, 161 pg. |
| 19 | PRELUCRAREA DATELOR EXPERIMENTALE , <u>Dan Chicea</u> , Liana-Maria Chicea, Editura Alma Mater, ISBN 978-973-632-277-8, 2006, 145 pg. |
| 20 | INTRODUCERE ÎN MECANICA CUANTICĂ , <u>Dan Chicea</u> , Editura Alma Mater, ISBN 978-973-632-331-7, 2006, 145 pg. |
| 21 | MECANICA FLUIDELOR, ELECTRICITATE ȘI MAGNETISM, OPTICĂ , <u>Dan Chicea</u> , Editura Alma Mater, ISBN 978-973-632-332-4, 2006, 143 pg. |
| 22 | 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. |
| 23 | FIZICĂ PENTRU ÎNVĂȚĂMÂNT LA DISTANȚĂ SAU CU FRECVENȚĂ REDUSĂ , Dan Chicea, Editura "ALMA MATER", ISBN 978-973-632-504-5, 2009, 160 pg. |
| 24 | 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. |
| 25 | LUCRĂRI DE LABORATOR DE FIZICĂ ȘI BIOFIZICĂ , Chicea Dan, University Lucian Blaga of Sibiu Press, ISBN: 978-606-12-0267-8, 2012, 90 pg. |
| 26 | METODE RADIOMETRICE : LUCRĂRI PRACTICE , Chicea Dan, University Lucian Blaga of Sibiu Press, ISBN 978-606-12-0376-5 2012, 135 pg. |
| 27 | METODE RADIOMETRICE DE ANALIZĂ ȘI CONTROL , Chicea Dan, University Lucian Blaga of Sibiu Press, ISBN 978-606-12-0375-8, 2012, 182 pg. |
| 28 | NOȚIUNI DE TERMODINAMICĂ ȘI DE MECANICA FLUIDELOR , Dan Chicea, University Lucian Blaga of Sibiu Press, ISBN 978-606-12-0507-3, 2014, 184 pg. |

Experience in Research projects

(Director, responsible for certain activities or team member)

Project name	Participated as:	Time
<i>AN IMPROVED ALGORITHM FOR EVENT TIMING</i> , NIKHEF Amsterdam, The Netherlands, TEMPUS Program	Director	June 1-st 1993- August 31-st, 1993
<i>STUDII ASUPRA RADONULUI SI THORONULUI SIN SOL, AER, APA SI MATERIALE DE CONSTRUCȚIE: DOZIMETRE PERSONALE ȘI MĂSURĂTORI RETROSPECTIVE</i> , grant CNCSIS.	Team member	January 1-st, 1999- December 31-st, 2000
<i>THE "KIT" PROJECT</i> , Nuclear Engineering Dept., University of Illinois at Urbana Champaign, U.S.A.	Team member	July 15-th, 1999 – January 31-st, 2000
<i>STUDII ASUPRA CONCENTRAȚIEI DE METALE GRELE ȘI DE ELEMENTE RADIOACTIVE ÎN SOL ȘI APĂ FREATICĂ ȘI A ACUMULĂRII LOR ÎN PLANTE</i> , grant CNCSIS, Nr.18/2000.	Director	January 1-st, 2001 – December 31-st, 2003
<i>STUDIES ON NATURAL METALLIC URANIUM CHANGES PRODUCED BY HYDROGEN</i> , Portland State University, U.S.A.	Team member, responsible with nuclear radiation measurements	February 15-th 2003 – August 31-st, 2003
<i>TEHNOLOGII MODERNE NECONVENȚIONALE, CONFORME CU REGLEMENTĂRILE EUROPENE, DE EPURARE A APELOR UZATE ȘI TRATARE A NĂMOLULUI REZIDUAL ÎN SCOPUL REUTILIZĂRII ACESTUIA</i> , CEEEX, 2006-2008.	Team member	January 1-st, 2006- December 31-st, 2008
Armonizarea valențelor românești cu cele ale comunității europene, program POSDRU/CPP107/DML5/S/76851	Long time expert	January 1-st, 2010 – 30 Octombrie 2013
Proiectul POSDRU 159/1.5/S/133255, titlul Proiectului „Burse Universitare în România prin Sprijin European pentru doctoranzi și post-doctoranzi (BURSE DOC-POSTDOC)”	Responsible (for moitoring PhD students)	April 8-th, 2014 - October 30-th, 2015
H2020-2014-MSCA-NIGHT (Researchers' night 2014-2015)	Key person	2014 - 2015

Articles published in ISI rated journals with impact factor

- No. Article citation**
- 1 **LOW INTENSITY NEUTRON EMISSION FROM TID_x SAMPLES UNDER NON-EQUILIBRIUM CONDITIONS**, Dan Chicea, Dan Lupu, **Fusion Technology**, vol. 39, issue 1, pp.108-113, January 2001.
 - 2 **TESTING A NEW MULTIPLE LIGHT SCATTERING PHASE FUNCTION USING RWMCS**, D. Chicea, 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**, Dan Chicea, Ioan Turcu, **OPTIK-International Journal for Light and Electron Optics**, Vol 118/5 pp 232-236, 2007, DOI information: 10.1016/j.jileo.2006.02.008
 - 4 **RESULTS OF LIGHT SCATTERING DYNAMICS ANALYSIS OF BIOLOGICAL FLUIDS**, Dan Chicea, 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**, Dan Chicea, 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**, Dan Chicea, **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 ON 12 DAYS PLANTLETS**, Dan Chicea, Mihaela Racuciu, **Romanian Journal of Physics**, Volume 52, Numbers 5-7, pp.632-640, 2007.
 - 10 **ON LOW CONCENTRATION AQUEOUS MAGNETIC FLUID LIGHT SCATTERING PROPERTIES**, Dan Chicea, M. Răcuciu, **Journal of Optoelectronics and Advanced Materials** Vol. 9, No. 12, p. 3843 – 3846, December 2007.
 - 11 **COHERENT LIGHT SCATTERING ON NANOFLUIDS - COMPUTER SIMULATION RESULTS**, Dan Chicea, **Applied Optics**, Vol. 47, No. 10 April 1, pp. 1434-1442, 2008.
 - 12 **ON HEAVY METAL LEVELS VARIATION IN TARNAVA MARE RIVER DURING 2003**, Dan Chicea, Adriana Morariu, Mihaela Racuciu, **Romanian Journal of Physics**, Vol. 53, Nos. 1-2, pp. 165-170, 2008.
 - 13 **RESULTS OF ZEA MAYS SEEDS B' IRRADIATION IN 0 - 5 GY RANGE**, Dan Chicea, Mihaela Racuciu, **Romanian Journal of Physics**, Vol. 53, Nos. 1-2, pp 171-177, 2008.
 - 14 **MAGNETIC FLUID PARTICLE SIZING BY COHERENT LIGHT SCATTERING. COMPUTER SIMULATION RESULTS**, Dan Chicea, **Journal of Optoelectronics and Advanced Materials** Vol. 10, No. 2, p. 264 – 268, February 2008.
 - 15 **HIGH ACCURACY PHOTOPYROELECTRIC INVESTIGATIONS OF DYNAMIC THERMAL PARAMETERS OF FLUIDS**, 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 **COHERENT LIGHT SCATTERING ON RBCS - EXPERIMENTAL RESULTS AND POSSIBLE BIOMEDICAL APPLICATION**, Dan Chicea,, **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Vol. 10, No. 3, p. 689 – 692, March 2008.
 - 17 **NANOPARTICLE SIZING BY COHERENT LIGHT SCATTERING – COMPUTER SIMULATION RESULTS**, Dan Chicea, **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Vol. 10, No. 4, p. 813-818, April 2008.
 - 18 **APPLICATION OF WHOLE BLOOD COHERENT LIGHT SCATTERING DYNAMICS ANALYSIS**, Dan Chicea, **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Vol. 10, No. 8, p. 2163-2167 , July 2008.
 - 19 **RESULTS OF PHYSICAL AND CHEMICAL PARAMETERS MONITORING OF THE “RĂUL MARE” RIVER**, Letitia Oprean, Dan Chicea, Eniko Gaspar, Ecaterina Lengyel,

- Romanian Journal of Physics, Vol. 53, Nos. 7-8, 2008, pp. 947-954.
- 20 **STRUCTURAL INVESTIGATIONS OF SOME TRANSITIONAL METALS WITH HYSTIDINE AS LIGAND**, 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 **STUDIES ON STATIC AND DYNAMIC LIGHT SCATTERING PROPERTIES OF WATER BASED MAGNETIC FLUID**, Dan Chicea, Mihaela Răcuciu, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Vol 10, No.12, Dec., 2008, p. 3317-3321.
- 22 **AN ALTERNATIVE ALGORITHM TO CALCULATE THE BIOSPECKLE SIZE IN COHERENT LIGHT SCATTERING EXPERIMENTS**, Dan Chicea, Romanian Journal of Physics, Vol. 54, Nos. 1-2, 2009, p147-157.
- 23 **ON AQUEOUS Fe_3O_4 NANOFUID ROOM TEMPERATURE SYNTHESIS AND PHYSICAL PROPERTIES**, D. Chicea, C. M. Goncea, Optoelectronics and Advanced Materials – Rapid Communications vol. 3, no. 3, march 2009, p. 185 – 189
- 24 **ALTERNATIVE PHOTOPYROELECTRIC DETECTION METHOD OF PHASE TRANSITIONS IN FERROELECTRIC MATERIALS**, 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 **REVEALING Fe_3O_4 NANOPARTICLES AGGREGATION DYNAMICS USING DYNAMIC LIGHT SCATTERING**, D. Chicea, Optoelectronics and Advanced Materials – Rapid Communications vol. 3, no. 12, November 2009, p. 1299 – 1305
- 26 **PROBING PARTICLE AGGREGATION IN AQUEOUS SUSPENSIONS BY LIGHT SCATTERING ANISOTROPY MEASUREMENTS**, 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.
- 33 **ASSESSING Fe_3O_4 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 Fe_3O_4 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
- 36 **ESTIMATING WINE YEAST CONCENTRATION BY FAR FIELD CONTRAST MEASUREMENT**, Dan Chicea, Ovidiu Tița, Mihaela Tița, Ecaterina Lengyel, Romanian Journal of Physics vol. 59, no. 3-4, pp: 346-354, 2014.
- 37 **A SIMPLE ALGORITHM TO SIMULATE NANOPARTICLES MOTION IN A NANOFUID**, Dan Chicea, U.P.B. Sci. Bull., Series A, Vol. 76, Iss. 2, 2014, pp: 199-206, ISSN 1223 - 7027
- 38 **USING AFM TOPOGRAPHY MEASUREMENTS IN NANOPARTICLE SIZING**, Dan CHICEA, Romanian Reports in Physics, Vol. 66, No. 3, P. 778–787, 2014

Articles in ISI indexed Journals

- No. Article citation**
- 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 Copşa 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 **A COHERENT LIGHT SCATTERING PROCEDURE TO MEASURE VERY SMALL CONCENTRATION OF ORGANIC SUSPENSION IN NATURAL WATER**, Dan Chicea, Transylvanian Review of Systematical and Ecological Research vol 14, nr. 2, pp. 1-8, 2012.
 - 9 **ESTIMATING PARTICLE CONCENTRATION IN NATURAL WATER BY SPECKLE CONTRAST**; Dan CHICEA, Transylvanian Review of Systematical and Ecological Research vol 15.1, nr. 2, pp. 1-10, 2013.

Articles published in other peer-reviewed international journals

- No. Article citation**
- 1 **ELECTRON SCREENING AND THE COLD FUSION IN CONDENSED MATTER**, Dan Chicea, „COLD FUSION”, Issue No. 14, December 1995, pp. 2-3
 - 2 **MICROSCOPIC ACCELERATION MECHANISM AND COLD FUSION IN DEUTERATED MATERIALS**, Dan Chicea, „Fusion Facts” (ISSN 1051-8738) September 1996, pp. 17-18.
 - 3 **ELECTRON CLUSTERS-POSSIBLE DEUTERIUM FUSION CATALISER**, Dan Chicea, Journal of New Energy, vol.2, no1, pp. 37-43, 1997.
 - 4 **MICROSCOPIC ACCELERATION MECHANISM OF COLD FUSION IN DEUTERATED MATERIALS**, Dan Chicea, Journal of New Energy, vol.2, no1, pp. 99-102, 1997.
 - 5 **ABOUT ENERGY FLUCTUATIONS AND THE LOW ENERGY NUCLEAR REACTIONS IN CONDENSED MATTER**, Dan Chicea, Elemental Energy, issue 22, pp.36-39, July 1997.
 - 6 **ABOUT NUCLEAR REACTIONS IN CONDENSED MATTER**, Dan Chicea, Balkan Physics Letters, Vol. 5, pp. 305-310, 1997
 - 7 **A NOTE ON LOW ENERGY NUCLEAR REACTIONS IN CONDENSED MATTER**, Dan Chicea, Journal of New Energy, Vol. 3, No. 1, pp.30-32, 1998
 - 8 **EXPERIMENTAL EVIDENCE OF LOW ENERGY NUCLEAR REACTIONS IN METAL DEUTERIUM SYSTEMS**, Dan Chicea, Dan Lupu, Journal of New Energy, Vol. 5, No. 1, pp.39-47, 2000.
 - 9 **COMMENT ON AN INTERESTING EXPERIMENTAL FEATURE IN ELECTROLYSIS LOADING EXPERIMENTS**, Dan Chicea, Journal of New Energy, Vol. 6, No. 2, pp.40-45, 2002.
 - 10 **CALORIMETRY RESULTS OF ELECTROLYSIS EXPERIMENTS WITH DIFFERENT CATHODES**, Dan Chicea, Journal of New Energy, Vol. 6, No. 3, pp.4-17, 2002.
 - 11 **COMMENT ON POST-HYDROGEN ABSORPTION, NICKEL SURFACE, S.E.M. ANALYSIS RESULTS**, Dan Chicea, Journal of New Energy, volume 7, pp. 48-54, number 1, 2003.

- Nr. Titlul articolului, autorii, den. Revistei, vol., pagina început – pagina sfârșit, anul
- 1 **EXPERIMENTS CONCERNING THE PROTON ACTIVATION TECHNIQUE APPLIED IN ASSESSING THE PROTEIN CONCENTRATION IN GLICINE HISPIDICA GRAINS.** Gh. Dumitru, Dan Chicea & all, ACTA UNIVERSITATIS CIBINIENSIS vol X(1) Series F, pp 24-26,(COD CNCSIS 91), 1993.
 - 2 **UNSPECTROMETRICAL ASSESSMENT OF THE CONCENTRATION OF THE ELEMENTS IN A SAMPLE.** Dan Chicea, ACTA UNIVERSITATIS CIBINIENSIS vol. X(1) Series F (COD CNCSIS 91),1993
 - 3 **ACUMULAREA DE ELECTRONI CA EFECT DE CAPACITOR,** Dan Chicea, Întâia Sesiune de Comunicări Științifice a Academiei Trupelor de Uscat, Sibiu, pp. 247-250, 10-11 Decembrie 1996
 - 4 **THE FRACTURING OF CONDUCTORS SUBJECT TO HIGH ELECTRIC CURRENTS,** Dan Chicea, ACTA UNIVERSITATIS CIBINENSIS (COD CNCSIS 5) vol. XVI, pp.310-315, November, 1995.
 - 5 **MODELE PENTRU DESCRIEREA ECRANĂRII COLUOMBIENE,** Lucrările sesiunii științifice ale universității “Aurel Vlaicu” din Arad, ediția a 4-a, pp. 40-43, 30-31 Octombrie 1997.
 - 6 **DESPRE VALORILE POSIBILE ALE CONCENTRAȚIEI DE ELECTRONI ÎN EXCES,** Lucrările sesiunii științifice ale universității “Aurel Vlaicu” din Arad, ediția a 4-a, pp. 44-47, 30-31 Octombrie 1997.
 - 7 **SIMULAREA DE TIP MONTE CARLO A COMPORTĂRII UNUI DEUTERON ÎN REȚEAUA CRISTALINĂ A UNOR METALE,** Dan Chicea, Buletinul Științific al Academiei Trupelor de Uscat, seria Matematică, Fizică, Chimie, (COD CNCSIS 329) pg. 133-139, Decembrie 1998.
 - 8 **PRELUCRAREA DATELOR ÎN DETECTAREA RADIAȚIILOR PROVENITE DE LA UNELE SURSE CARE EMIT SPORADIC,** Dan Chicea, Buletinul Științific al Academiei Trupelor de Uscat, seria Matematică, Fizică, Chimie, (COD CNCSIS 329), pg. 140-145, Decembrie 1998.
 - 9 **PACHET DE PROGRAME PENTRU PRELUCRAREA SPECTRELOR PROTONILOR DE RECOL,** Dan Chicea, Buletinul Științific al Academiei Trupelor de Uscat, seria Matematică, Fizică, Chimie, (COD CNCSIS 329), pg. 122-133, Decembrie 1998.
 - 10 **DESPRE REACȚII NUCLEARE LA ENERGII JOASE CATALIZATE,** Dan Chicea, Buletinul Științific al Universității “PETROL – GAZE” din Ploiești, (COD CNCSIS 38), pg. 53-58, Mai 1998
 - 11 **REACȚII NUCLEARE ÎN FAZA CONDENSATĂ CA REZULTAT AL SUPERRADIANȚEI,** Dan Chicea, Buletinul Științific al Universității “PETROL – GAZE” din Ploiești, (COD CNCSIS 38), pg. 59-62, Mai 1998.
 - 12 **TESTING A FAST NEUTRON SPECTROMETER USING 14.1 MEV⁶ LID NEUTRON EMISSION IN A THERMAL NEUTRON FIELD,** Dan Chicea, Liviu Daraban, Onuc Cozar, Constantin Cosma, Dorin Stoicescu, STUDIA UNIVERSITATIS BABES-BOLYAI, SER. PHYSICA, XLIII, (COD CNCSIS 519) No. 1, pp: 45-64, 1998
 - 13 **ON STRUCTURAL MODIFICATIONS INDUCED IN TI SAMPLES BY DEUTERIUM LOADING,** Dan Chicea, Emil Indrea, STUDIA UNIVERSITATIS BABES-BOLYAI, SER. PHYSICA, (COD CNCSIS 519) No. 1, pp. 59-64, 1999.
 - 14 **RESULTS OF SEM ANALYZES ON A NICKEL CATHODE SURFACE AFTER HYDROGEN ABSORPTION,** Dan Chicea, ACTA UNIVERSITATIS CIBINIENSIS Series F (COD CNCSIS 91), Vol. XV, nr.1, pp. 48-55, 2001
 - 15 **ABOUT ELECTRON ACCUMULATION ON GRAINY METAL SURFACE,** Dan Chicea, ACTA UNIVERSITATIS CIBINIENSIS Series F, (COD CNCSIS 91), Vol. XV, nr.1, pp. 46-61, 2001.
 - 16 **COMPUTED LIGHT DIFFRACTION IMAGES,** Dan Chicea, ACTA UNIVERSITATIS CIBINIENSIS Series F, (COD CNCSIS 91), Vol. XV, nr.1, pp.62-65, 2001
 - 17 **A SHORT COMMENT ON VERY LOW ENERGY NUCLEAR REACTIONS IN CONDENSED MATTER,** Dan Chicea, ACTA UNIVERSITATIS CIBINIENSIS Series F, (COD CNCSIS 91), Vol. XVI, nr.1, pp. 1-5, 2002
 - 18 **ERROR ANALYSIS FOR ELECTROLYSIS EXPERIMENTS,** Dan Chicea, George Miley, ACTA UNIVERSITATIS CIBINIENSIS Series F (COD CNCSIS 91), Vol. XVI, nr.1, pp. 6-22, 2002
 - 19 **FAST NEUTRON SPECTROMETRY WITH A P.S.D. CIRCUIT AND A STYLBENE DETECTOR,** Dan Chicea, Liviu Daraban, ACTA UNIVERSITATIS CIBINIENSIS Series F, (COD CNCSIS 91), Vol. XVI, nr.1, pp. 23-35, 2002.
 - 20 **ON SURFACE MORPHOLOGY AND COMPOSITION CHANGES OF URANIUM SAMPLES AFTER HYDROGEN ABSORPTION,** Dan Chicea, J. Dash, STUDIA UNIVERSITATIS BABEȘ-BOLYAI, SER. PHYSICA, Special Issue2 (COD CNCSIS 519), pg: 325-328, 2003
 - 21 **LIGHT SCATTERED ON DISORDERED SYSTEMS – COMPUTER SIMULATION AND EXPERIMENTAL RESULTS,** Dan Chicea, STUDIA UNIVERSITATIS BABEȘ-BOLYAI, SER. PHYSICA, (COD CNCSIS 519), Vol. XLIX, No. 3, pp. 281-283, 2004.

- 22 **TIME SERIES FOURIER ANALYSIS ON DILUTED SUSPENSIONS – PARTIAL RESULTS**, Dan Chicea, pp. 717-720, Universitatis Babeş-Bolyai, Physica, special issue, 2005.
- 23 **A RANDOM WALK MONTE CARLO CODE TO SIMULATE LIGHT SCATTERING IN BIOLOGICAL SUSPENSIONS**, Dan Chicea, Ioan Turcu, Studia Universitatis Babeş-Bolyai, Physica, special issue, pp. 316-322, 2005.
- 24 **RESULTS OF STATIC BIOSPECKLE IMAGE SIMULATION**, Dan Chicea, Liana Chicea, Buletinul Ştiinţific al Academiei Trupelor de Uscat, (COD CNCSIS 329), seria Matematică, Fizică, Chimie, (COD CNCSIS 329), Vol.X, 2005.
- 25 **FOURIER TRANSFORM ANALYSIS OF BIOLOGICAL SUSPENSIONS TIME SERIES**, Dan Chicea, Liana Chicea, Buletinul Ştiinţific al Academiei Trupelor de Uscat, seria Matematică, Fizică, Chimie, (COD CNCSIS 329), Vol.X, 2005.
- 26 **A DIFFERENT MONTE CARLO APPROACH TO SIMULATE LIGHT SCATTERING IN BIOLOGICAL SUSPENSIONS**, Dan Chicea, I. Turcu, Buletinul ştiinţific al Academiei trupelor de uscat, (COD CNCSIS 329), seria Matematică, Fizică, Chimie, (COD CNCSIS 329)Vol.X, 2005.
- 27 **ON AQUEOUS MAGNETIC FLUID PARTICLE SIZING USING DLS**, Dan Chicea and M. Goncea, International Journal of Advanced Statistics and IT&C for Economics and Life Sciences, vol. 1, nr. 2, pg: 101-106, 2009
- 28 **ANALYZING LIGHT SCATTERING TIME SERIES OF BIOLOGICAL FLUIDS**, D. Chicea, R. Chicea and L. M. Chicea, International Journal of Advanced Statistics and IT&C for Economics and Life Sciences, vol. 1, nr. 2, pg: 121-127, 2009
- 29 **A MONTE CARLO ALGORITHM TO SIMULATE NANOPARTICLES BROWNIAN MOTION**, Dan CHICEA, accepted to be published in International Journal of Advanced Statistics and IT&C for Economics and Life Sciences, vol. 2, nr. 1, 2010
- 30 **RWMCS – AN ALTERNATIVE RANDOM WALK MONTE CARLO CODE TO SIMULATE LIGHT SCATTERING IN BIOLOGICAL SUSPENSIONS** Dan CHICEA, accepted to be published in International Journal of Advanced Statistics and IT&C for Economics and Life Sciences, vol. 2, nr. 1, 2010
- 31 **MONITORING NANOPARTICLE AGGREGATION BY COHERENT LIGHT SCATTERING MEASUREMENTS**, Dan Chicea, accepted to be published in The Annals of the West University of Timisoara, Physics Series, vol. 54, 2010
- 32 **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
- 33 **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

Other books and chapters published

- No. Books published by Romanian printing houses**
- 1 **PROBLEME DE FIZICĂ DE TIP GRILĂ PENTRU ADMITEREA LA FACULTATEA DE MEDICINĂ**, Dan Chicea, A. Şerbănescu, M. Gavrilescu, M. Ungureanu, G. Negrea, A. Gavrilescu, Editura STECOSTAR, Sibiu, 1996, 204 pg.
- 2 **TESTE GRILĂ DE FIZICĂ PENTRU ADMITEREA LA FACULTATEA DE MEDICINĂ VICTOR PAPILIAN**, D. Gh. Stoicescu, Dan Chicea, Anca Şerbănescu-Oaşă, M. Gavrilescu, M. Ungureanu, G. Negrea, A. Gavrilescu, Editura Universităţii “Lucian Blaga” din Sibiu, Mai 1997, ISBN 973-97147-1-4, 209 pg.
- 3 **TESTE GRILĂ DE FIZICĂ PENTRU ADMITEREA IN FACULTĂŢI**, Dorin Gh. Stoicescu, Dan Chicea, A. Şerbănescu, etc., EDITURA TEORA, Noiembrie 1997, 479 pg.
- 4 **PROCESE FIZICE NEOBIŞNUITE ÎN SISTEME METAL-IZOTOPI AI HIDROGENULUI**, Dan Chicea, Editura Universităţii “Lucian Blaga” din Sibiu, Aprilie 2000, ISBN 973-651-085-9, 130 pg.
- 5 **APA – RESURSĂ FUNDAMENTALĂ A DEZVOLTĂRII DURABILE –VOLUMUL III – METODELE ŞI TEHNICILE NECONVENŢIONALE DE EPURARE ŞI TRATARE A APEI**, coordonator Letiţia Oprean, EDITURA ACADEMIEI ROMÂNE, BUCUREŞTI, 2012, ISBN: 978-973-27-2269-5, CAPITOLUL 34 – CHICEA DAN, pg: 258-263

Chapters in books published by International printing houses

- 1 **THE "KIT PROJECT" REPORT**, George H. Miley, (P.I.), Dan Chicea, 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. 563-474 (chapter name: **EFFECTS OF HYDROGEN LOADING BY AQUEOUS ELECTROLYSIS ON RADIOACTIVITY OF URANIUM**)
- 3 **In: CONDENSED MATTER NUCLEAR SCIENCE**, Peter I. Hagelstein, Scott R. Chubb editors, Chicea D. Author, WORLD SCIENTIFIC, 2004, ISBN981-256-564-7, pg. 475-482.
- 4 **IN: ENGINEERING MATERIALS** Volume 0, Part 6, 2010, Victor Bârsan and Alexandru Aldea editors, D. Chicea author, pages 331 – 350, DOI: 10.1007/978-3-642-12070-1.

Work published in proceedings of international conferences

No. Article citation

- 1 **THE AMPERE FORCE TENSION CALCULATION**, Dan Chicea, The Third International Conference on Boundary and Finite Element (ELFIN-3), Constanța, pg. 70-74, 25-27 Mai 1995.
- 2 **MICROSCOPIC ACCELERATION MECHANISM AND THE COLD FUSION IN DEUTERATED MATERIALS**, Dan Chicea, International Conference "New Ideas in Natural Sciences", St. Petersburg, Russia, pg. 315-317, 17-22 June 1996.
- 3 **ABOUT NUCLEAR COULOMB BARRIER AND THE ELECTRON OVER-CONCENTRATION**, Dan Chicea, The Sixth International Conference on Cold Fusion, ICCF6, Hokaido, Japonia, pg. 305-308, 13-18 Octombrie 1996.
- 4 **COMPUTER SIMULATION OF THE LIGHT DIFFRACTION**, Dan Chicea, The 4-th International Conference on Boundary and Finite Element, Iași, România, pg. 15-19, 4-6 June 1997.
- 5 **ON NUCLEAR REACTIONS INDUCED BY ELECTRON CLUSTERS**, Dan Chicea, The 22-nd International Congres of the Romanian – American Academy, Târgoviște, 26-29 Iunie 1997, pg. 165-168.
- 6 **ABOUT THE ROLE OF ELECTRON SCREENING IN VERY LOW ENERGY NUCLEAR REACTIONS**, Dan Chicea, 3-rd General Conference Of The Balkan Physical Union, Cluj-Napoca, Romania, pg. 100-103, 2-5 September, 1997.
- 7 **ABOUT DEUTERIUM NUCLEAR REACTION RATE IN CONDENSED MATTER**, Dan Chicea, The 7-th International Conference on Cold Fusion, Vancouver, pg.447-450, 14-21 April 1998.
- 8 **THE ROLE OF THE ENERGY FLUCTUATIONS IN THE POSSIBILITY OF NUCLEAR REACTIONS IN CONDENSED MATTER**, Dan Chicea, The 7-th International Conference on Cold Fusion, Vancouver, pg. 451-454, 14-21 April 1998.
- 9 **EXPERIMENTAL EVIDENCE OF NUCLEAR REACTIONS IN HIGH TEMPERATURE TID SAMPLES**, Dan Chicea, 4th Asti Workshop on Anomalies in Hydrogen / Deuterium loaded Metals, October 22-24 1999, Asti, Italy, 5 pagini, nu cunosc exact care sunt
- 10 **RESULTS IN SEARCH FOR EXCESS POWER USING ELECTROLYSIS WITH DIFFERENT CATHODES**, George H. Miley, Dan Chicea, 4th Asti Workshop on Anomalies in Hydrogen / Deuterium loaded Metals, October 22-24 1999, Asti, Italy, 6 pagini, nu cunosc exact care sunt
- 11 **STATUS AND RECENT STUDIES USING THIN FILM ELECTRODES**, George H. Miley, Dan Chicea, Mike J. Williams, Maria Okuniewski, Giovanna Selvaggi, Andy Tate, Eighth International Conference on Nuclear Engineering, Baltimore, Maryland April 2-6, 2000, 8 pagini, nu cunosc exact care sunt.
- 12 **EXPERIMENTAL EVIDENCE OF NUCLEAR REACTIONS IN DEUTERATED TITANIUM SAMPLES UNDER NON-EQUILIBRIUM CONDITIONS INDUCED BY TEMPERATURE VARIATION**, Dan Chicea, Dorin Stoicescu, The 8-th International Conference on Cold Fusion, Lerici, Italy, pp. 247-250, May 21-26, 2000.
- 13 **ADVANCES IN THIN FILM ELECTRODE EXPERIMENTS**, G.H.Miley, G Selvaggi, A. Tate, M.Okuniewski, M.J. Williams, D. Chicea, H.Hora, J.Kelly, The 8-th International Conference on Cold Fusion, Lerici, Italy, p. 169-172, May 21-26, 2000,.
- 14 **ENERGY SPECTRUM OF β PARTICLES TRANSMITTED THROUGH METAL FOILS**, Cengiz A., O.Gurler, E.Almaz, A. Chicea D., D.Lupu, Fourth General Conference of the Balkan Physical Union, Veliko Turnovo, 22-25 August 2000, nu cunosc paginile.
- 15 **ABOUT A POSSIBLE CORRELATION BETWEEN CURRENT DENSITY AND EXCESS POWER IN ELECTROLYSIS EXPERIMENTS**, Dan Chicea, Molecular and Isotopic Processes,

- (PIM), II-nd edition, Cluj Napoca, 27-29 September 2001, 6 pagini, publicată pe CD.
- 16 **EXPERIMENTAL OBSERVATION OF DIFFERENT ISOTOPES ON CATHODE SURFACE AFTER PROLONGED ELECTROLYSIS**, Dan Chicea, Molecular and Isotopic Processes, (PIM), II-nd edition, Cluj Napoca, 27-29 September 2001, 6 pagini, publicată pe CD.
- 17 **COMMENTS ON AN INTERESTING EXPERIMENTAL FEATURE IN ELECTROLYSIS LOADING EXPERIMENTS**, Dan Chicea, International Symposium on New Energy Conference October 26- 27 2001, Salt Lake City, USA, 5 pagini, nu cunosc paginile.
- 18 **ON CURRENT DENSITY AND EXCESS POWER DENSITY IN ELECTROLYSIS EXPERIMENTS**, Dan Chicea, The 9th International Conference on Cold Fusion, Beijing, pp 49-52, May 19 - 25, 2002
- 19 **ON NEW ELEMENTS ON CATHODE SURFACE AFTER H ISOTOPES ABSORPTION**, Dan Chicea, The 9th International Conference on Cold Fusion, Beijing, May 19 - 25, 2002.
- 20 **EXPERIMENTAL EVIDENCE OF ISOTOPE CONCENTRATION CHANGES ON NICKEL CATHODE SURFACE AFTER HYDROGEN ABSORPTION**, Dan Chicea, The 27th American Romanian Academy of Arts and Science Congress, (The 27th ARA CONGRESS) ORADEA, volumul II, Polytechnic International Press, ISBN: 2-553-01024-9, pp. 1316 - 1318, May 29th – June 2nd, 2002.
- 21 **COMMENT ON RADON CONCENTRATION IN SIBIU DISTRICT (ROMANIA) UNDERGROUND WATER**, Dan. Chicea, C. Cosma, EPS-12: General Conference Trends in Physics, Budapest, pg. 89-92, 26-30 August 2002.
- 22 **CHANGES IN THE RADIOACTIVITY OF NATURAL URANIUM SAMPLES AFTER HYDROGEN LOADING**, J. Dash, D. Chicea, The Fifth General Conference of the Balkan Physical Union, AUGUST 25-29, 2003, Vrnjacka Banja, SERBIA and MONTENEGRO (published on CD), ISBN 86-902537-4-2.
- 23 **ON HEAVY METAL POLLUTION MONITORING RESULTS IN COPSA MICA AREA**, D. Chicea, H. Barbu, The Fifth General Conference of the Balkan Physical Union, AUGUST 25-29, 2003, Vrnjacka Banja, SERBIA and MONTENEGRO (published on CD), ISBN 86-902537-4-2.
- 24 **RESULTS OF NATURAL URANIUM SAMPLE CHARACTERIZATION AFTER HYDROGEN LOADING**, D. Chicea, J. Dash, The Fifth General Conference of the Balkan Physical Union, AUGUST 25-29, 2003, Vrnjacka Banja, SERBIA and MONTENEGRO (published on CD), ISBN 86-902537-4-2.
- 25 **COMMENT ON CARBON PRODUCTION IN DEUTERIUM-METAL SYSTEMS**, D. Chicea, The Tenth International Conference on Cold Fusion (ICCF-10), Cambridge, pp. ##, Massachusetts 24 - 29 August 2003.
- 26 **EFFECTS OF HYDROGEN LOADING BY AQUEOUS ELECTROLYSIS ON RADIOACTIVITY OF URANIUM**, John Dash, D. Chicea, The Tenth International Conference on Cold Fusion (ICCF-10), Cambridge, Massachusetts, pp. ##, USA, 24 - 29 August 2003.
- 27 **On Heavy Metals Pollution In Copsa Mica Area**, Dan CHICEA, Horia BARBU, Adriana MORARIU, The Impact of Physical and Bio-Geo-Chemical Factors on the Sustainable Development, May 15 -16, Simleul Silvaniei, Romania, 2004, nu cunosc paginile.
- 28 **ON ELEMENTS CONCENTRATION CHANGES IN HIGH CURRENT ELECTROLYSIS EXPERIMENTS**, Dan Chicea, The 11-th International Conference on Cold Fusion, Marseilles, France, pp. 30-34, October 31 – November 5, 2004.
- 29 **RESULTS OF SEDIMENT MOTION VISUALIZATION BY A MODIFIED LASCA TECHNIQUE**, Dan Chicea, International Conference "Micro- to Nano-Photonics - ROMOPTO 2006" August 28-31, 2006, Sibiu, Romania, SPIE proceeding #6785, DOI: 10.1117/12.757883.
- 30 **USING RWMCS TO TEST DIFFERENT MULTIPLE LIGHT SCATTERING PHASE FUNCTIONS FOR BIOLOGICAL SUSPENSIONS**, Dan Chicea, International Conference "Micro- to Nano-Photonics - ROMOPTO 2006" August 28-31, 2006, Sibiu, Romania, SPIE proceeding #6785, DOI: 10.1117/12.757873
- 31 **A POSSIBLE APPLICATION OF COHERENT LIGHT SCATTERING ON BIOLOGICAL FLUIDS**, Dan CHICEA, Liana Maria CHICEA, the 6-th International Conference of the Balkan Physical Union, Istanbul, Turkey, August 22-26, 2006, AIP proceeding 899, pp. 808, published on April 27 2007, DOI:10.1063/1.2733549 .
- 32 **RESULTS OF BIOSPECKLE DYNAMICS COMPUTER SIMULATION**, Dan CHICEA, the 6-th International Conference of the Balkan Physical Union, Istanbul, Turkey, August 22-26, 2006, AIP proceeding 899, pp. 714 published on April 27 2007, DOI:10.1063/1.2733455.
- 33 **ON BIOSPECKLE SIZE ANALYSIS TECHNIQUE IN PARTICLE CONCENTRATION AND SIZE ASSESSMENT**, Dan CHICEA, the 6-th International Conference of the Balkan Physical Union, Istanbul, Turkey, August 22-26, 2006, AIP proceeding 899, pp. 809, published on April 27 2007, DOI:10.1063/1.2733550
- 34 **CHODIN- A COMPUTER CODE TO SIMULATE COHERENT LIGHT SCATTERING**

- DYNAMICS ON BIOLOGICAL SUSPENSIONS**, Dan Chicea, International Conference "LASER and APPLICATIONS"- INDLAS 2007 May 23-25, 2007, Bran, Romania, Proceedings of SPIE Volume: 7007, DOI: 10.1117/12.801959
- 35 **APPLICATION OF WHOLE BLOOD IMAGE SPECKLE ANALYSIS**, Dan Chicea, International Conference "LASER and APPLICATIONS"- INDLAS 2007 May 23-25, 2007, Bran, Romania, Proceedings of SPIE Volume: 7007, DOI: 10.1117/12.801934
- 36 **Magnetic fluid particle sizing by coherent light scattering - computer simulation results**, Dan CHICEA, 8-th INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2007.
- 37 **High accuracy photopyroelectric investigations of dynamic thermal parameters of fluids**, Dorin Dadarlat, Camelia Neamtu, Mihaela Streza, Dan Chicea, Aurel Pasca, 8-th INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2007.
- 38 **An Alternative Algorithm to Calculate the Biospeckle Size in Coherent Light Scattering Experiments**, Dan CHICEA, 8-th INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2007.
- 39 **Coherent light scattering on RBCs - experimental results and possible biomedical application**, Dan CHICEA, 8-th INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2007.
- 40 **Results of Physical and Chemical Parameters Monitoring of The "Râului Mare" River**, Letiția OPREAN, Dan CHICEA, Enikő GASPARG, Ecaterina LENGYEL, 8-th INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2007.
- 41 **Results of Low B- Irradiation Doses on Saccharomyces Cerevisiae Fermentation Process**, Letiția OPREAN, Dan CHICEA, Enikő GASPARG, Ecaterina LENGYEL, 8-th INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2007.
- 42 **Nanoparticle Sizing By Coherent Light Scattering**, Dan Chicea, The 5th Conference "New Research Trends In Material Science"ARM-5, Sibiu, Romania, 5th – 7th September, 2007.
- 43 **On Magnetic Fluid Static and Dynamic Light Scattering Properties**, Dan Chicea, Mihaela Răcuciu, The 5th Conference "New Research Trends In Material Science"ARM-5, Sibiu, Romania, 5th – 7th September, 2007.
- 44 **Magnetic Nanoparticles Coated with Biocompatible Compounds**, M.Răcuciu, D.E. Creangă, A.Airinei, Dan Chicea, V. Bădescu, The 5th Conference "New Research Trends In Material Science"ARM-5, Sibiu, Romania, 5th – 7th September, 2007.
- 45 **Results of Coherent Light Scattering Dynamics on Magnetic Fluids Computer Simulation**, Dan Chicea, The Fifth Conference "Isotopic and Molecular Processes" Cluj-Napoca, Romania, September 20 – 22, 2007
- 46 **Coherent Light Scattering Measurements On Diluted Milk**, Dan Chicea, The 5th International Conference INTEGRATED SYSTEMS FOR AGRI-FOOD PRODUCTION SIPA07, Sibiu, November 22-24, 2007
- 47 **Practical aspects regarding the physiological active state and the autolysis of the starter Sacharomyces cerevisiae culture**, Letiția Oprean, Enikő Gaspar, Ecaterina Lengyel, Dan Chicea, The 5th International Conference INTEGRATED SYSTEMS FOR AGRI-FOOD PRODUCTION SIPA07, Sibiu, November 22-24, 2007.
- 48 **Physical and chemical parameters of the "Râul Mare" river – monitoring results**, Letiția Oprean, Dan Chicea, Enikő Gaspar, Ecaterina Lengyel, The 5th International Conference INTEGRATED SYSTEMS FOR AGRI-FOOD PRODUCTION SIPA07, Sibiu, November 22-24, 2007.
- 49 **Measuring very small concentrations in aqueous suspensions by coherent light scattering**, Letitia Oprean, Dan Chicea, Ecaterina Lengyel, International Conference MODERN LASER APPLICATIONS, Bran, Romania, Mai 20-23, 2008
- 50 **Probing particle aggregation in suspension by coherent light scattering**, Dan CHICEA, International Conference MODERN LASER APPLICTIONS, Bran, Romania, Mai 20-23, 2008
- 51 **Using CHODIN to simulate coherent light scattering on nanofluids**, Dan Chicea, Dan CHICEA, International Conference MODERN LASER APPLICATIONS, Bran, Romania, Mai 20-23, 2008
- 52 **Investigating nanoparticle aggregation in aqueous suspensions by coherent light scattering**, Dan CHICEA, INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2008
- 53 **On magnetic nanofluid synthesis and some physical properties**, Dan CHICEA, Carmen M. Goncea, INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2008
- 54 **On heavy metals concentration monitoring in Hârtibaci river during 2005**, Dan CHICEA, N. Popescu, INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2008

- 55 **Experimental study on the effects of very low β - irradiation doses (1 – 4 gy) on *saccharomyces cerevisiae* fermentation process**, Letiția OPREAN, Dan CHICEA, Ecaterina LENGYEL, INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2008
- 56 **A coherent light scattering experiment to measure very small suspension concentration in natural water**, Letiția OPREAN, Dan CHICEA, Ecaterina LENGYEL, INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2008
- 57 **Revealing nanoparticle aggregation dynamics by coherent light scattering**, Dan Chicea, ADVANCED SPECTROSCOPIES ON BIOMEDICAL AND NANOSTRUCTURED SYSTEMS, September 7-10, 2008, Cluj-Napoca, ROMANIA
- 58 **Analyzing Light Scattering Time Series of Biological Fluids**, Dan CHICEA, Radu Chicea, Liana-Maria Chicea, 1st International Workshop - Advanced Statistics and IT&C Techniques Applied to Economics and Life Sciences, 3-6 Mai 2009, Sibiu, Romania (ASITELS 2009), published in International Journal of Advanced Statistics and IT&C for Economics and Life Sciences , Vol. 1 Number 2 , pg: 121-127, 2009
- 59 **On Aqueous Magnetic Fluid Particle Sizing Using DLS**, Dan CHICEA, Carmen Monica GONCEA, 1st International Workshop - Advanced Statistics and IT&C Techniques Applied to Economics and Life Sciences, 3-6 Mai 2009, Sibiu, Romania (ASITELS 2009), published in International Journal of Advanced Statistics and IT&C for Economics and Life Sciences , Vol. 1 Number 2 , pg: 101-106, 2009
- 60 **A Monte Carlo Algorithm to Simulate Nanoparticles Brownian Motion**, Dan CHICEA, 1st International Workshop - Advanced Statistics and IT&C Techniques Applied to Economics and Life Sciences, 3-6 Mai 2009, Sibiu, Romania (ASITELS 2009)
- 61 **RWMCS - An alternative Monte Carlo algorithm to simulate light scattering in biological suspensions**, Dan CHICEA, 1st International Workshop - Advanced Statistics and IT&C Techniques Applied to Economics and Life Sciences, 3-6 Mai 2009, Sibiu, Romania (ASITELS 2009)
- 62 **Dynamic Light Scattering Particle Sizing Analysis On Biological Fluids**, Dan CHICEA, Radu CHICEA, Liana-Maria CHICEA, 10th International Balkan Workshop on Applied Physics, July 6-8, 2009, CONSTANTA, ROMANIA
- 63 **Investigating Nanoparticle Aggregation Dynamics In An Aqueous Magnetic Fluid By Light Scattering Anisotropy**, Dan CHICEA, 10th International Balkan Workshop on Applied Physics, July 6-8, 2009, CONSTANTA, ROMANIA
- 64 **A Comment On Physics Education In Romania**, Dan Chicea Dumitru Batâr, Dorin Stoicescu, Aurel Pașca, 10th International Balkan Workshop on Applied Physics, July 6-8, 2009, CONSTANTA, ROMANIA
- 65 **Computer Simulation of Coherent Light Scattering Dynamics on Nanofluids**, Chicea Dan, Workshop on Trends in Nanoscience: Theory, Experiment, Technology, August 23-30, 2009, Sibiu, Romania
- 66 **Revealing Nanoparticle Aggregation Dynamics By Light Scattering Anisotropy Measurement**, 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 **Investigating Nanoparticle Aggregation Dynamics in an Aqueous Magnetic Fluid by Light Scattering Anisotropy**, 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 **Using CHODIN to simulate the dynamics of coherent light scattering on nanofluids**, 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](https://doi.org/10.1117/12.866768).
- 69 **Measuring very small concentrations in organic suspensions by coherent light scattering**, 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](https://doi.org/10.1117/12.861750).
- 70 **Using DLS for Fast Urine Sample Analysis**, 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 **Monitoring Nanoparticle Aggregation by Coherent Light Scattering Measurements**, Dan Chicea, Physics Conference TIM-09, 27–28 November 2009, Timisoara, Romania
- 72 **Imaging Human Serum Albumin**, 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 [1387](https://doi.org/10.1063/1.3647082), pp. 247-252, doi:10.1063/1.3647082, Issue Date: 3 October 2011

- 73 ***A Monte Carlo Simulation of Light Scattering on Biological Suspensions with Bigger Optical Depth***, 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 ***Estimating Particle Concentration in Natural Water by Speckle Size Measurement***, 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 ***Water Suspension Analysis by Modified Dynamic Light Scattering***, 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 ***Monitoring nanoparticle aggregation by optical procedures***, 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>

July 17, 2015

Dan Chicea