



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s)	<b>Dan Chicea</b>
Address(es)	Faculty of Sciences, Lucian Blaga University of Sibiu, Romania, Str. Dr. Ion Ratiu no. 7-9, Sibiu, Romania
E-mail	dan.chicea@ulbsibiu.ro
Nationality	Romanian
Date of birth	29.03.1963
Gender	male

### Work experience

Dates	October 2008 - present
Occupation or position held	<b>Professor, Habil.</b> Director of the Council for Doctoral Studies in Lucian Blaga" University, 2017 - 2020 Vicepresident of the "Lucian Blaga" University Senate, responsible for the Research Committee and for the Administrative and Strategy Committee ( March 2016 - March 2017) Habilitation (to conduct PhD work in Civil Engineering) since 2014 Director of the Research Center for Complex Physical Systems (former Research Center for Pediatric Respiratory Medicine), since 2013 Head of the Physics Dept from 2000 to 2012
Main activities and responsibilities	I give lectures, conduct seminars and laboratory works on Biophysics, General Physics, Applied Nuclear Physics; Advances Laboratory Techniques, conduct research on Coherent Light Scattering, on Computational Physics; Nanofluids Synthesis and Characterisation, I coordinate the activity of the Physics Group
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	October 1999 – September 2008
Occupation or position held	<b>Associate Professor, (head of the Physics Dept. 2000 - 2012)</b>
Main activities and responsibilities	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.
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	October 1996 – September 1999
Occupation or position held	<b>Lecturer</b>
Main activities and responsibilities	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;
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 1990 - September 1996
Occupation or position held	<b>Assistant Professor</b>
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	<b>Computer programmer and Analyst</b>
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
<b>Education and training</b>	
Dates	February 2003 – August 2003
Title of qualification awarded	<b>Visiting Research Associate Professor</b>
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	<b>Postdoc</b>
Principal subjects/occupational skills covered	Metal Hydrides, thin films deposition by sputtering, 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	<b>PhD. in Atomic Physics</b>
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	<b>Tempus Scholar</b>

Principal subjects/occupational skills covered	Software for event timing in 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	<b>Postgraduate Program - System Analyses and Computer Programming</b>
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 Bucharest, Faculty of Physics

### 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 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 International ISI rated journals; some of them are:**

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

**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

**A list of published work is attached**

Chicea Dan

# List of published work – Dan Chicea

## Articles published in ISI rated journals with impact factor

- No. Article citation**
- 1 **LOW INTENSITY NEUTRON EMISSION FROM TID<sub>x</sub> 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.ijleo.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. (Q2)
  - 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 "RÂUL 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. (Q2)
- 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 (Q2)
- 39 **RESULTS OF LOW  $\beta$ - AND  $\gamma$  IRRADIATION DOSES ON SACCHAROMYCES CEREVISIAE FERMENTATION PROCESS**, Dan Chicea, Voichita Gheoca, Ecaterina Lengyel, Romanian Biotechnological Letters Vol. 20, No. 4, 2015, pp: 10656-10661
- 40 **AN AFM AND SEM STUDY OF A DENTAL RESTORATION MATERIAL GRAIN STRUCTURE** Dan CHICEA, Romanian Reports in Physics, Vol. 68, No. 4, Pp. 1513–1522, 2016 (Q2)
- 41 **HIGHLIGHTING NANOPARTICLE AGGREGATION USING THE TIME CONTRAST ALGORITHM**. Dan CHICEA, Journal of Optoelectronics and Advanced Materials Vol. 19, No. 3 - 4, March – April 2017, p. 161 - 166
- 42 **USING NEURAL NETWORKS FOR DYNAMIC LIGHT SCATTERING TIME SERIES PROCESSING**, Dan Chicea, Measurement Science and Technology, Volume 28, Number 5 , 055205, March 2017, <https://doi.org/10.1088/1361-6501/aa61b4> (Q2)
- 43 **A FAST ARTIFICIAL NEURAL NETWORK APPROACH FOR DYNAMIC LIGHT SCATTERING TIME SERIES PROCESSING**, Dan Chicea, and Silviu Mihai Rei, Meas. Sci. Technol. 29 (2018) 105201 (15pp), <https://doi.org/10.1088/1361-6501/aad937> (Q2)
- 44 **AN ARTIFICIAL NEURAL NETWORK ASSISTED DYNAMIC LIGHT SCATTERING PROCEDURE FOR ASSESSING LIVING CELLS SIZE IN SUSPENSION**, Dan Chicea, June 2020, Sensors 20(12):3425, DOI: 10.3390/s20123425 (Q1)
- 45 **STRUCTURE FORMATION AND PROPERTIES OF CORUNDUM CERAMICS BASED ON METASTABLE ALUMINIUM OXIDE DOPED WITH STABILIZED ZIRCONIUM DIOXIDE**, A.V. Maletsky, D.R. Belichko, T.E. Konstantinova, G.K. Volkova, A.S. Doroshkevich, A.I. Lyubchyk, V.V. Burkhovetskiy, V.A. Aleksandrov, D. Mardare, C. Mita, D. Chicea, L.H. Khiem, Ceramics International 47 (2021) 19489–19495, doi: 10.1016/j.ceramint.2021.03.286 (Q1)

## Articles in ISI indexed Journals and in Journals indexed in International Data bases

- | No. | Article citation   |
|-----|--|
| 1   | <b>EXPERIMENTAL EVIDENCE OF NEUTRON EMISSION FROM <math>TID_x</math> SAMPLES</b> , Dan Chicea, D. Lupu, I. Chereji, Hadronic Journal Vol. 21, pp. 567-582, 1998, <a href="http://www.hadronicpress.com/hadronic_journal.htm">http://www.hadronicpress.com/hadronic_journal.htm</a>   |
| 2   | <b>ABOUT THE RANDOM NEUTRON EMISSION FROM <math>TID_x</math> SAMPLES</b> , Chicea D., Lupu D., Romanian Reports in Physics, No. 1-2, 1999.   |
| 3   | <b>RESULTS OF SEM ANALYSIS ON DIFFERENT METAL SURFACES AFTER HYDROGEN ABSORPTION</b> , Dan Chicea, Hadronic Journal, Volume 25, Number 4, pp.443-458, August 2002, <a href="http://www.hadronicpress.com/hadronic_journal.htm">http://www.hadronicpress.com/hadronic_journal.htm</a> |
| 4   | <b>Results Of EDS Uranium Samples Characterization After Hydrogen Loading</b> , D. CHICEA, J.DASH, Romanian Reports in Physics, Vol. 56. no. 2, pp. 282-293, 2004  |
| 5   | <b>On Metal Pollution in Copşa Mica Area</b> , Dan Chicea, Horia Barbu, Romanian Reports in Physics, Vol. 56. no. 4, pp. 769-776, 2004   |
| 6   | <b>A Random Walk Monte Carlo Approach to Simulate Multiple Light Scattering on Biological Suspensions</b> , Dan Chicea, Ioan Turcu, Romanian Reports in Physics, Vol. 57. no. 3, pp. 418-425, 2005   |
| 7   | <b>Computer Simulation Results of Light Scattered on Red Blood Cells</b> , Dan Chicea, Romanian Journal of Physics, Volume 51, Numbers 3-4, pp. 403-409, 2006  |
| 7   | <b>Using Chodin to Simulate Coherent Light Scattering Dynamics on Biological Suspensions</b> , Dan Chicea, Radu Chicea, Liana Maria Chicea, ROMANIAN J. BIOPHYS., Vol. 20, No. 2, P. 157–170, 2010   |
| 8   | <b>Using Dynamic Light Scattering Particle Sizing as A Fast Screening Procedure for Urine Sample Analysis</b> , Dan Chicea, Radu Chicea, Liana Maria Chicea, ROMANIAN J. BIOPHYS., Vol. 20, No.3, P. 257-267, 2010   |
| 9   | <b>A COHERENT LIGHT SCATTERING PROCEDURE TO MEASURE VERY SMALL CONCENTRATION OF ORGANIC SUSPENSION IN NATURAL WATER</b> , Dan Chicea, Transylvanian Review of Systematical and Ecological Research vol 14, nr. 2, pp. 1-8, 2012.   |
| 10  | <b>ESTIMATING PARTICLE CONCENTRATION IN NATURAL WATER BY SPECKLE CONTRAST</b> ; Dan CHICEA, Transylvanian Review of Systematical and Ecological Research vol 15.1, nr. 2, pp. 1-10, 2013.  |
| 12  | <b>TIME SERIES SPACE PHASE QUALITATIVE ANALYSIS AND A POSSIBLE APPLICATION</b> , CHICEA Dan, REI Silviu, Academic Journal of Manufacturing Engineering vol. 13, issue 2, 2015, pp. 148-153. (SCOPUS)   |

- 13 **Profiling Suspensions in Natural Water by a Simplified Dynamic Light Scattering Procedure and Sedimentation**, Dan Chicea, Liana-Maria Chicea, Transylvanian Review of Systematical and Ecological Research vol. 17(2), pp:1-10, 2015.
- 14 **Using the Fourier Transform and the Power Spectral Density functions for Pattern Recognition in Dynamic Light Scattering Time Series**, CHICEA Dan, REI Silviu, Proceedings of the 4-th International Conference - Modelling and Development of Intelligent Systems, MDIS-4, SIBIU, ROMANIA, pp. 33-39, 2016, ISSN 2067-3965.
- 15 **Autocorrelation function analysis in processing stochastic time series**, Silviu Rei, Dan Chicea, Sorin Olaru, Annals of "DUNAREA DE JOS" University of Galati, Mathematics, Physics, Theoretical mechanics, Fascicle II, year VIII (XXXIX), No. 1 pp. 51-54, 2016
- 16 **Using Dynamic Light Scattering Experimental Setup and Neural Networks For Particle Sizing**, Silviu Mihai Rei, Dan Chicea, Acta Universitatis Cibiniensis. Technical Series 69(1), pp.155-161, December 2017, DOI: 10.1515/aucts-2017-0020
- 17 **Dynamic Light Scattering Signal Conditioning for Data Processing**, Silviu Mihai Rei, Dan Chicea, Berilii Ilie, Sorin Olaru, Acta Universitatis Cibiniensis. Technical Series 69(1), pp.130-135, December 2017, DOI: 10.1515/aucts-2017-0016
- 18 **Using Dynamic Light Scattering for Monitoring the Size of the Suspended Particles in Wastewater**, Dan CHICEA and Silviu Mihai REI, Transylv. Rev. Syst. Ecol. Res. "The Wetlands Diversity", 21.3 (2019), pp. 1-10
- 19 **A Study of Milk Particles Size Variation with pH Change using Dynamic Light Scattering**, Dan Chicea, Liana Maria Chicea, MATEC Web of Conferences 290 , 0 300 3 (2019), Proc of MSE 2019, <https://doi.org/10.1051/mateconf /20192 900 300 3>
- 20 **Investigation on the Possibility of Designing an Educational Dynamic Light Scattering Device For Sizing Particles Suspended in the Air**, Dan Chicea and Cristian Leca, 9 th Balkan Region Conference on Engineering and Business Education (BRCEBE) & 12 th International Conference on Engineering and Business Education (ICEBE) 6 - 19 October 2019.

## 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.



## Articles published in journals edited by Romanian universities

- 1 **Nr. Titlul articolului, autorii, den. Revistei, vol., pagina început – pagina sfârșit, anul**  
**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.
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- 78 **NANOPARTICLES SIZE DISTRIBUTION ASSESSMENT DURING EARLY SYNTHESIS STAGES**, Dan Chicea, Mirela Maria Codescu, Alexandra Nicolae, Oleksandr Doroshkevych, Akhmed Islamov and Mirosław Kulik, 10 th INTERNATIONAL CONFERENCE MANUFACTURING SCIENCE AND EDUCATION -MSE 2021-, june 2-4, Sibiu, Romania
- 79 **SIZING PARTICLES IN GASES BY AN ADVANCED OPTICAL PROCEDURE**, Dan Chicea, Cristian Leca and Sorin Olaru, 10 th INTERNATIONAL CONFERENCE MANUFACTURING SCIENCE AND EDUCATION -MSE 2021-, june 2-4, Sibiu, Romania

## Student textbooks (In Romanian)

- | No. | Title, authors   |
|-----|--|
| 1   | <b>LUCRĂRI PRACTICE DE FIZICA SOLIDULUI - Îndrumar de laborator</b> , Gheorghe Stoicescu, <a href="https://doi.org/10.1007/978-3-642-12070-1_15">Dan Chicea</a> , 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, Dan Chicea, Editura Universității din Sibiu, Sibiu, 1994, 140 pg.
- 3 **FIZICĂ GENERALĂ**, Dan Chicea, University Lucian Blaga of Sibiu Press, Martie 1999, ISBN 973-9410-52-9, 140 pg.
- 4 **ELECTRICITATE ȘI MAGNETISM, LUCRARI PRACTICE**, Dan Chicea, University Lucian Blaga of Sibiu Press, Septembrie 1999, ISBN 973-9410-95-2, 150 pg.
- 5 **LUCRĂRI PRACTICE DE MECANICĂ FIZICĂ**, Dan Chicea, University of Sibiu Press, 2000, ISBN 973-651-086-7, 80 pg.
- 6 **LUCRĂRI DE LABORATOR DE FIZICĂ PENTRU I.D.D.**, Dan Chicea, Editura Alma Mater, Sibiu, 2000, ISBN: 973-99974-6-5, 61 pg.
- 7 **FIZICĂ GENERALĂ PENTRU I.D.D.** Dan Chicea, Editura Alma Mater, Sibiu, 2000, ISBN: 973-99974-5-7, 110 pg
- 8 **FIZICĂ PENTRU INGINERI**, Dan Chicea, University Lucian Blaga of Sibiu Press, Decembrie 2000, ISBN 973-651-172-3,
- 9 **FIZICĂ – ÎNDRUMAR DE LABORATOR**, Dan Chicea, Editura Universității Româno-Germane, Sibiu, 2001, 100 pg.
- 10 **LUCRĂRI DE LABORATOR DE FIZICĂ GENERALĂ**, Dan Chicea, University Lucian Blaga of Sibiu Press, Noiembrie 2001, ISBN 973-651-342-4, 120 pg.
- 11 **FIZICĂ PENTRU ÎNVĂȚĂMÂNTUL POLITEHNIC**, Dan Chicea, University Lucian Blaga of Sibiu Press, ISBN 973-651-390-4, 2001, 206 pg.
- 12 **CAPITOLE DE FIZICĂ ATOMICĂ**, Dan Chicea, 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** Chicea Dan, University Lucian Blaga of Sibiu Press, 2002, ISBN 973-651-503-6, 122 pg.
- 16 **FIZICĂ NUCLEARĂ**, Chicea Dan, University Lucian Blaga of Sibiu Press, 2004, ISBN 973-651-987-2, 271 pg.
- 17 **FIZICĂ NUCLEARĂ-APLICAȚII**, Chicea Dan, University Lucian Blaga of Sibiu Press, ISBN 973-739-174-8, 2005, 136 pg.
- 18 **LUCRĂRI DE LABORATOR DE FIZICA SOLIDULUI**, Răcuci Mihaela, Dan Chicea, University Lucian Blaga of Sibiu Press, ISBN 973-739-191-8, 2005, 161 pg.
- 19 **PRELUCRAREA DATELOR EXPERIMENTALE**, Dan Chicea, Liana-Maria Chicea, Editura Alma Mater, ISBN 978-973-632-277-8, 2006, 145 pg.
- 20 **INTRODUCERE ÎN MECANICA CUANTICĂ**, Dan Chicea, Editura Alma Mater, ISBN 978-973-632-331-7, 2006, 145 pg.
- 21 **MECANICA FLUIDELOR, ELECTRICITATE ȘI MAGNETISM, OPTICĂ**, Dan Chicea, Editura Alma Mater, ISBN 978-973-632-332-4, 2006, 143 pg.
- 22 **CALCUL NUMERIC ÎN FIZICĂ FOLOSIND MATLAB**, Dan Chicea, 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.
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- 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.
- 29 **LUCRĂRI EXPERIMENTALE DE FIZICĂ ȘI BIOFIZICĂ**, Dan Chicea, Aurel Pașca, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-1098-5, 2015, 290 pg.
- 30 **LUCRĂRI PRACTICE DE TERMODINAMICĂ, ELECTRICITATE ȘI MAGNETISM**, DAN CHICEA, AUREL PAȘCA, Editura Universității „Lucian Blaga” din Sibiu, ISBN 978-606-12-1408-2, 2016, 210 pg.

## 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. 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, Dan Chicea, 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 IN FACULTĂȚI**, Dorin Gh. Stoicescu, Dan Chicea, A. Șerbănescu, etc., EDITURA TEORA, Noiembrie 1997, 479 pg.
- 4 **PROCESE FIZICE NEOBIȘNUITE ÎN SISTEME METAL-IZOTOPI AI HIDROGENULUI**, Dan Chicea, Editura Universității "Lucian Blaga" din Sibiu, Aprilie 2000, ISBN 973-651-085-9, 130 pg.
- 5 **APA – RESURSĂ FUNDAMENTALĂ A DEZVOLTĂRII DURABILE –VOLUMUL III – METODEDE 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 **PROCESE NUCLEARE ÎN HIDRURI ȘI DEUTERURI METALICE**, Dan Chicea, Editura Universității "Lucian Blaga" din Sibiu, Decembrie 2017, ISBN 978-606-12-1506-5, 212 pg.
- 7 **ÎNREGISTRAREA ȘI PRELUCRAREA SERIILOR TEMPORALE DE ÎMPRĂȘTIERE DINAMICĂ A LUMINII**, Silviu Mihai Rei, Dan Chicea, Editura Universității "Lucian Blaga" din Sibiu, Decembrie 2018, ISBN 978-606-12-1580-5, 156 pg.
- 8 **ÎMPRĂȘTIEREA LUMINII PE SISTEME DEZORDONATE CU APLICAȚII**, Dan Chicea, Editura Universității "Lucian Blaga" din Sibiu, 2019, ISBN 978-606-12-1715-1, 201 pg.

## Books and 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.
- 5 1. **SIMPLE TECHNIQUES FOR NANOPARTICLE SYNTHESIS AND CHARACTERIZATION**, Dan Chicea, Lambert Academic Publishing, ISBN 978-3-659-97709-1, 2016
- 6 **ARTIFICIAL NEURAL NETWORK ASSISTED DYNAMIC LIGHT SCATTERING**, Silviu Rei, Dan Chicea, Lambert Academic Publishing, ISBN 978-613-9-98054-3, 2018



## Experience in Projects (Research and Educational)

NO.	Project name	Participated as:	Time
1	<i>AN IMPROVED ALGORITHM FOR EVENT TIMING</i> , NIKHEF Amsterdam, The Netherlands, TEMPUS mobility	Director	June 1-st 1993- August 31-st, 1993
2	<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
3	<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
4	<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
5	<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
6	<i>TEHNOLOGII MODERNE NECONVENȚIONALE, CONFORME CU REGLEMENTĂRILE EUROPENE, DE EPURARE A APELOR UZATE ȘI TRATARE A NĂMOLULUI REZIDUAL ÎN SCOPUL REUTILIZĂRII ACESTUIA</i> , CEEX, 2006-2008.	Team member	January 1-st, 2006- December 31-st, 2008
7	Armonizarea valențelor românești cu cele ale comunității europene, program POSDRU/CPP107/DML5/S/76851	Long time expert	January 1-st, 2010 – 30 Octombrie 2013
8	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 monitoring PhD students)	April 8-th, 2014 - October 30-th, 2015
9	H2020-2014-MSCA-NIGHT (Researchers' night 2014- 2015)	Key person	2014 - present
10	POSDRU/155/1.2/S/141894 - Dezvoltarea și consolidarea culturii calității la nivelul sistemului de învățământ superior românesc - QUALITAS” POSDRU/155/1.2/141894	Short time expert	2014-2015
11	SIDPOP “Instrument suport pentru luarea deciziilor în domeniul managementului poluanților organici persistenți – studiu de caz: Bazinul hidrografic Mureș”- ID 66243, finanțat prin EEA Grants, Programul RO04.	Responsible (for equipment selection)	2015-2016
12	JINR-RO 2018 04-4-1121-2015/2020 ( JINR Dubna) Advanced structural and magnetic investigations on FeCo/Al <sub>2</sub> O <sub>3</sub> nanocomposites for novel soft magnetic materials for high frequency applications	Responsible for the Lucian Blaga University of Sibiu group	2018
13	JINR-RO 2018 04-4-1121-2015/2020 ( JINR Dubna) Co-based magnetic nanostructured material with potential space applications – synthesis and complex	Responsible for the Lucian Blaga University of Sibiu	2018

	characterisation for novel soft magnetic materials for high frequency applications	group	
14	JINR-RO Topical Plan: Theme code: 04-4-1121-2015/2020 The crystalline and magnetic structure of materials developed for electrical engineering as studied by neutron scattering techniques	Responsible for the Lucian Blaga University of Sibiu group	2019
15	JINR-RO Topical Plan: cod temă 03-4-1128-2017/2022 The study by DLS and RBS methods of structures and elemental composition of surface layer of nanoparticles ZrO <sub>2</sub> under hydration conditions	Director	2020
16	JINR-RO JINR Topical Plan: Theme code: 04-4-1121-2015/2020 The crystalline and magnetic structure of materials developed for electrical engineering as studied by neutron scattering techniques. Follow-up, pos. 30 from JINR Order No. 396/27.05.2019	Responsible for the Lucian Blaga University of Sibiu group	2020
14	Lucian Blaga University of Sibiu Internal Research Grant LBUS-IRG-2015-1	Director	2015-2016
15	Lucian Blaga University of Sibiu Internal Research Grant LBUS-IRG-2016-2	Director	2016-2018
16	Lucian Blaga University of Sibiu Internal Research Grant LBUS-IRG-2017-3	Director	2017-2019
17	Lucian Blaga University of Sibiu Internal Research Grant LBUS-IRG-2018-4	Director	2018-2020
18	Lucian Blaga University of Sibiu Internal Research Grant LBUS-IRG-2019-5	Director	2019-2021
19	Lucian Blaga University of Sibiu Internal Research Grant LBUS-IRG-2020-6	Director	2020-2022

July 28, 2021

**Dan Chicea**

## E. Other:

### a. Hirsh index

Google Scholar	13
ResearcherID Publons	9
WoS	9
SCOPUS	10

### b. Member of the editorial board, scientific board and reviewer for ISI și BDI journals (just a selection)

#### Journal

Applied Optics, 2016, recenzor

The 5th International Conference on Materials Science and Engineering (CMSE 2016),  
recenzor

J. Phys. Condens. Matter - JPCM, recenzor

Journal of Quantitative Spectroscopy and Radiative Transfer, recenzor

Lanfmuir, recenzor

Optics Express, 2016, recenzor

Transylv. Rev. Syst. Ecol. Res., 2016, recenzor

Current Nanoscience, 2017, <https://benthamscience.com/journals/current-nanoscience/>,  
recenzor

<https://www.dovepress.com/international-journal-of-nanomedicine-journal>, recenzor

International PhD student conference, 2017, recenzor, membru in comitetul de  
organizare

JOSA A, 2017 recenzor

Optical Engineering, 2017, <http://spie.org/x867.xml>, recenzor

ScieConf 2017, recenzor

Journal of Nanophotonics, 2018

International Conference on Optics, Photonics and Lasers OPAL 2018

International Journal of Nanomedicine, 2019

MDPI Sensors

MDPI Applied Sciences

MDPI Processes

OPAL

Optical Engineering 2019

Journal of Healthcare Engineering 2019

Particulate Science and Technology 2019

Applied Sciences

Energies

Measurement

OPAL2020

Sensors

Symmetry

Atoms - member of the reviewer board