

Curriculum vitae Europass

Informații personale

Nume / Prenume

Dan Chicea

Adresă(e)

Facultatea de Stiinte, Str. Dr. IonRatiu nr. 7-9, Sibiu, Romania

E-mail(uri)

dan.chicea@ulbsibiu.ro

Naționalitate(-tăți)

Romanian

Data nașterii

29.03.1963

Sex

masculin

**Locul de muncă vizat /
Domeniul ocupațional**

Profesor

Experiența profesională

Abilitare, din 2014

Perioada

2017 - 2020

Funcția sau postul ocupat

Director al Consiliului de Studii Universitare de Doctorat (CSUD)

Activități și responsabilități
principale

Am coordonat activitatea Școlii doctorale multidisciplinare a ULBS

Numele și adresa angajatorului

Universitatea Lucian Blaga din Sibiu

Tipul activității sau sectorul de
activitate

Învățământ superior

Perioada

Martie 2016-Aprilie 2017

Funcția sau postul ocupat

Vicepreședinte al Senatului ULBS

Activități și responsabilități
principale

Am coordonat activitate comisilor de:
Cercetare și Doctorate
Administrativă și de Strategie

Numele și adresa angajatorului

Universitatea Lucian Blaga din Sibiu

Tipul activității sau sectorul de
activitate

Învățământ superior

Perioada

Octombrie 2013-prezent

Funcția sau postul ocupat

Directorul CENTRULUI DE CERCETARE PENTRU SISTEME FIZICE COMPLEXE, (cu denumirea anterioară: CENTRULUI DE CERCETARE PENTRU MEDICINĂ RESPIRATORIE ȘI PEDIATRICĂ) din cadrul Universității Lucian Blaga din Sibiu

Activități și responsabilități
principale

Coordonez activitate de cercetare a centrului

Numele și adresa angajatorului

Universitatea Lucian Blaga din Sibiu

Tipul activității sau sectorul de
activitate

Cercetare

Perioada

Octombrie 2008 – Prezent

Funcția sau postul ocupat

Profesor (șeful Catedrei de Fizica în perioada Februarie 2000-Octombrie 2012)

Activități și responsabilități principale	Predau cursuri, seminare și lucrări de laborator de Biofizică, Fizică Generală, Metode Radiometrice; desfășor activități de cercetare pe sinteza și caracterizarea nanofluidelor, împrăștierea luminii coerente pe suspensii, Fizică Computațională, Coordonez activitatea Catedrei de Fizică.
Numele și adresa angajatorului	Universitatea Lucian Blaga din Sibiu, Bd-ul. Victoriei, Nr.10, Sibiu, 550024, România
Tipul activității sau sectorul de activitate	Învățământ superior
Perioada	Octombrie 1999 – Octombrie 2008
Funcția sau postul ocupat	Conferențiar, șeful Catedrei de Fizică din Februarie 2000
Activități și responsabilități principale	Cursuri seminarii și lucrări de laborator de Fizica, Fizica Atomică și Fizica Nucleară, Fizica Computațională; Am desfășurat activități de cercetare pe împrăștierea luminii coerente pe suspensii, Fizică Computațională, Am coordonat activitatea Catedrei de Fizică.
Numele și adresa angajatorului	Universitatea Lucian Blaga din Sibiu, Bd-ul. Victoriei, Nr.10, Sibiu, 550024, România
Tipul activității sau sectorul de activitate	Învățământ superior
Perioada	Octombrie 1996 – Septembrie 1999
Funcția sau postul ocupat	Lector
Activități și responsabilități principale	Cursuri seminarii și lucrări de laborator de Fizica, Fizica Atomică și Fizica Nucleară, activitate de cercetare în domeniul reacțiilor nucleare la energii joase.
Numele și adresa angajatorului	Universitatea Lucian Blaga din Sibiu, Bd-ul. Victoriei, Nr.10, Sibiu, 550024, România
Tipul activității sau sectorul de activitate	Învățământ superior
Perioada	Septembrie 1990 – Octombrie 1996
Funcția sau postul ocupat	Asistent
Activități și responsabilități principale	Seminarii și lucrări de laborator de Fizica, Fizica Solidului, Fizica reactorilor nucleari
Numele și adresa angajatorului	Universitatea Lucian Blaga din Sibiu, Bd-ul. Victoriei, Nr.10, Sibiu, 550024, România
Tipul activității sau sectorul de activitate	Învățământ superior
Perioada	Septembrie 1987 – Septembrie 1990
Funcția sau postul ocupat	Analist – Programator
Activități și responsabilități principale	Analiza și programare de sisteme informatice pentru aplicații civile
Numele și adresa angajatorului	Uzina Mecanica Mârșa
Tipul activității sau sectorul de activitate	Industrie grea
Educație și formare	
Perioada	Februarie 2003 – August 2003
Calificarea / diploma obținută	Visiting Research Associate Professor
Disciplinele principale studiate / competențe profesionale dobândite	Metal hydrides, Scanning Electron Microscopy, Gamma Ray spectroscopy, Very low Intensity nuclear radiation detection
Numele și tipul instituției de învățământ / furnizorului de formare	Portland State University, Oregon, U.S.A.
Nivelul în clasificarea națională sau internațională	
Perioada	Iulie 1999 – Ianuarie 2000
Calificarea / diploma obținută	Postdoc

Disciplinele principale studiate / competențe profesionale dobândite	Metal Hydrides, thin films deposition by sputtering, secondary ion mass spectroscopy
Numele și tipul instituției de învățământ / furnizorului de formare	University of Illinois at Urbana Champaign (U.I.U.C)
Nivelul în clasificarea națională sau internațională	
Perioada	Martie 1993 - Decembrie 1998
Calificarea / diploma obținută	Doctor in Fizica Atomică
Disciplinele principale studiate / competențe profesionale dobândite	Fizică Atomică, Fizică Nucleară, Fizica stării condensate
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Babes-Bolyai
Nivelul în clasificarea națională sau internațională	
Perioada	Iunie 1993 - August 1993
Calificarea / diploma obținută	Tempus Scholar
Disciplinele principale studiate / competențe profesionale dobândite	Heavy ions nuclear reaction in a storage ring
Numele și tipul instituției de învățământ / furnizorului de formare	N.I.K.H.E.F. Amsterdam
Nivelul în clasificarea națională sau internațională	(rubrică facultativă, vezi instrucțiunile)
Perioada	Octombrie 1987 – Martie 1988
Calificarea / diploma obținută	Analist Programator
Disciplinele principale studiate / competențe profesionale dobândite	Sisteme de operare, programare, metode de analiză de sistem
Numele și tipul instituției de învățământ / furnizorului de formare	Centrul teritorial de calcul Sibiu
Nivelul în clasificarea națională sau internațională	(rubrică facultativă, vezi instrucțiunile)
Perioada	Septembrie 1982-Iulie 1987
Calificarea / diploma obținută	Licenta de inginer fizician
Disciplinele principale studiate / competențe profesionale dobândite	Fizică tehnologică, secția Reactori nucleari, după un program de studii de 5 ani,
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Bucuresti, Fac. de Fizică
Nivelul în clasificarea națională sau internațională	(rubrică facultativă, vezi instrucțiunile)
Aptitudini și competențe personale	
Limba(i) maternă(e)	Română

Limba(i) străină(e)
cunoscută(e)

Self-assessment

European level (*)

Engleză

Rusă

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

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

Competențe și abilități
sociale

De a organiza și de a conduce un grup restrâns de persoane pentru realizarea unui scop comun

Competențe și aptitudini
organizatorice

De a organiza și de a conduce un grup profesional de mărimea unei catedre sau grup de cercetare pentru realizarea unui proiect

Competențe și aptitudini
tehnice

Competențe și aptitudini de
utilizare a calculatorului

Competențe de programare în Matlab, Fortran, Pascal, și de utilizare a unui soft destinat

Competențe și aptitudini
artistice

Alte competențe și aptitudini

Permis(e) de conducere

Categoria B

Informații suplimentare

Indice Hirsch 9, conform cu Claryvate Analytics, 10 SCOPUS și 13 pe Google Scholar

Anexe

Lista de lucrari publicate si de proiecte de cercetare la care am participat

28 iulie 2021

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_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.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 "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. (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 β - AND γ IRRADIATION DOSES ON SACCHAROMYCES**

- 40 **CEREVISIAE FERMENTATION PROCESS**, Dan Chicea, Voichita Gheoca, Ecaterina Lengyel, Romanian Biotechnological Letters Vol. 20, No. 4, 2015, pp: 10656-10661
- 41 **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)
- 42 **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
- 43 **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)
- 44 **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)
- 45 **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)
- 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. Lyubchik, 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 | 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 Copsa 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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. |
| 10 | 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. |
| 12 | TIME SERIES SPACE PHASE QUALITATIVE ANALYSIS AND A POSSIBLE APPLICATION , 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 end 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, Beriliu 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 , <u>Dan Chicea</u> , „COLD FUSION”, Issue No. 14, December 1995, pp. 2-3 |
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| 2 | RADIOMETRIE SI RADIOTOXICOLOGIE- Îndrumar de lucrări practice , Gheorghe Dumitru, Marian Pavelescu, Ioan Urian, Florin Antonescu, Dan Chicea , Editura Universităţii 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 ŞI 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 Universităţii Româno-Germane, Sibiu, 2001, 100 pg. |
| 10 | LUCRĂRI DE LABORATOR DE FIZICĂ GENERALĂ , Dan Chicea , University Lucian Blaga of Sibiu Press, |

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- 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.
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 - 16 **FIZICĂ NUCLEARĂ**, Chicea Dan, University Lucian Blaga of Sibiu Press, 2004, ISBN 973-651-987-2, 271 pg.
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 - 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.

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- 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.
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- 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> , CEEEX, 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 moitoring 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 ₂ O ₃ 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 characterisation for novel soft magnetic materials for high frequency applications	Responsible for the Lucian Blaga University of Sibiu group	2018

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 ₂ 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. Recunoașterea realizărilor științifice și profesionale:

a. Indici Hirsh

Google Scholar	13
WoS	9
SCOPUS	10

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

Revista

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

Curent 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

Symetry

Atoms - member of the reviewer board