

Lista de lucrări

A) Cărți

A.1) Monografii de specialitate - Unic autor (Criteriul CDI-MON)

Nr. crt	An	Titlul	Editura
1	2015	Fizică și Acustică - Aplicații	Ed. <i>Academica</i> ISBN 978-973-8937-88-8
2	2012	Analyse of drivers whole body vibration exposure	Universidad Autonoma de Yucatan, Merida, Mexic
3	2010	Methodologies for noise and vibration control	Ed. <i>Academica</i> ISBN 978-973-8937-63-5
4	2008	Effect of noise	University of Dehli ISBN 8174902495
5	2005	Acustica clădirilor	Ed. <i>Academica</i> ISBN 973-8915-52-2
6	2002	Fizica mediului	Universitatea „Dunărea de Jos” Galați
7	1999	Defectoscopie ultrasonică	Ed. <i>Academica</i> ISBN 973-98858-2-9

A.2) Manuale – suport de curs - Unic autor (Criteriul DID-MS)

Nr. crt	An	Titlul	Editura
1	2014	Răspunsul corpului uman sub acțiunea vibrațiilor	Ed. <i>Academica</i> ISBN 978-973-8937-84-0
2	2012	Biofizica	Universitatea „Dunărea de Jos” Galați
3	2003	Acustica	Ed. <i>Academica</i> ISBN 973-8316-50-2
4	2002	Agrometeorologia	Editura Fundației Universitare ISBN 973-8352-48-7
5	1999	Fizica	Ed. <i>Academica</i> ISBN 973-97816-6-7

A.3 Suport curs Master: Universitatea „Dunărea de Jos” Galați - Coautor

Nr. crt	An	Titlul	Autori
1	2015	Sisteme disperse	Fernando Leal Calderon, <i>Traducere în lb. română:</i> Mihaela Picu
		Studiul ultrasonic al emulsiilor	Mihaela Picu

A.4 Suport seminar/laborator Universitatea „Dunărea de Jos” Galați - Unic autor

Nr. crt	An	Titlul
1	2013	Metode pentru punerea în aplicare a Directivei 2002/44/CE (vibrații la locul de muncă)
2	2012	Monitorizare și protecție la vibrații - Experimente
3	2012	Biofizica – lucrări practice
4	2003	Lucrări de laborator de acustică
5	2002	Instrumente meteorologice și de determinare a parametrilor mediului înconjurător
6	2002	Lucrări practice de fizică

B) Articole *in extenso*, publicate în reviste din fluxul științific internațional principal

B.1 Articole apărute în reviste indexate ISI (2007-2015)

Nr.	An	Autori	Titlu
1	2015	<u>Picu, M.</u>	Wetland of International Importance “The Braila Small Island” - Exposed to noise pollution, Environmental Engineering and Management Journal, August 2015, Vol.14, No. 8, pp. 1995-2002,
2	2015	<u>Picu, M.</u>	Noise impact assessment using noise maps and noise conflict maps in Braila – A city situated between the largest RAMSAR Romanian areas: Danube Delta and Braila Small Island, Carpathian Journal of Earth and Environmental Sciences, February 2016, Vol. 11, No. 1, pp. 105-112, ISSN Printed: 1842-4090, ISSN Online: 1844-489X
3	2011	<u>Picu, M.,</u> Năstac, S.	A Study Concerning The Driver Comfort Improvement As Regards The Transmitted Vibrations By The Vehicle Running On Roads In Romania, Carpathian Journal of Earth and Environmental Sciences, Volume 6 (2), pp. 313-320, ISSN Printed: 1842-4090, ISSN Online: 1844-489X,
4	2011	Sireteanu, T., Năstac, S., <u>Picu, M.</u>	Structural And Behavioral Optimization Of The Nonlinear Hill Model, Proceedings of the Romanian Academy - series A, Volume 12, Number 3 July-Sept. 2011, pp. 213–220, ISSN: 1454-9069,
5	2007	<u>Picu, M.</u>	Ultrasonic method to determine the phenomena inside a continuous changing system, Proceedings of the Romanian Academy - series A, Volume 8, Issue 3, pp 243-248, 2007

B.2) Articole apărute în reviste internaționale indexate în baze de date (2010-2015)

Nr.	An	Autori	Titlu
1	2015	<u>Picu, M.</u>	Vibrations study of a naval ship in different operating modes on the Danube, International Journal of Modern Manufacturing Technologies, ISSN 2067–3604, Vol. VII, No. 1, 2015
2	2015	<u>Picu, M.</u>	Multi-stress and human performance: a refutation of inverted-U hypothesis, Journal of Multidisciplinary Engineering Science and Technology (JMEST) ISSN: 3159-0040, Vol. 2, Issue 9, Sept, 2015
3	2014	<u>Picu, M.</u>	Personality determination using vibrating movement parameters, Proceedings of Papers, pp. 209-216, 24 th International Conference Noise and Vibration, 29-31 Oct, 2014, Nis, Serbia * Publicat în Journal "Facta Universitatis, Series: Working and Living Environment", the leading national journal (Category M51), Serbia
4	2014	<u>Picu, M.</u>	A Dynamic Model of the Human Body Vibration in the Vertical Direction, Advanced Materials Research, Vol. 837, pp. 452-457
5	2014	<u>Picu, M.</u>	The Qualitative Assesment of Emerging Risks to Workers Exposed to HAV, Journal of Materials Science and Engineering A, 4 (9) pp.315-320, 2014
6	2013	<u>Picu, M.</u>	The Transmission of Vibration Through Car Seats, Acoustics and vibration of mechanical structures, 23-24 May 2013, International Journal of Modern Manufacturing Technologies ISSN 2067–3604, Vol. V, No. 1, pp. 87-90, 2013
7	2013	<u>Picu, M.</u>	A Study of Vertical Vibration Transmissibility by the Human Body, Applied Mechanics and Materials (Vol. 325 - 326), pp. 152-157, 2013
8	2012	<u>Picu, M.</u>	A comparative study of the discomfort induced by vehicles to driver, International Journal of Modern Manufacturing Technologies ISSN 2067–3604, Vol. IV, No. 2, pp. 61-66, 2012,
9	2010	<u>Picu, M.,</u> Năstac, S.	Some Aspects Regarding Noise Exposure Dose Monitoring for Working Personnel, Journal of Science and Arts, Volume 12, Number 1, pp. 299-304, 2010, ISSN: 1844 – 9581, eISSN 2068-3049

B.3) Articole în reviste indexate B+ (Analele Universităților din România) (2004-2014)

Nr.	An	Autori	Titlu
1	2014	<u>Picu, M.</u>	Noise study of a naval ship in different operating modes on the Danube, Annals of “Dunarea de Jos” University Of Galati, Fascicle XIV, Mechanical Engineering, pp. 55-62, 2014
2	2013	<u>Picu, M.</u>	An analysis of vibration transmission to handlers trucks, Annals of “Dunarea de Jos” University Of Galati, Fascicle XIV, pp.11-16, Mechanical Engineering, 2013
3	2013	<u>Picu, M.</u>	Paradigm changing of acoustic comfort. Case study: noise pollution in two extremely populated areas in Braila, Annals of the University Dunarea de Jos of Galati, Fascicle II, Year V(XXXVI), No. 2, pp. 432-440, Mathematics, Physics, Theoretical Mechanics, 2013
4	2012	<u>Picu, M.</u> Voiculescu, M	A study of HAV for foresters workers, The Annals of „Dunarea de Jos” University of Galati, Fascicle XIV, pp. 59-64, Mechanical Engineering, ISSN 1224-5615, 2012

5	2011	Năstac, S., <u>Picu, M.</u>	Study On Vibrations Transmitted To The Passengers In The Bucharest Metro Stations, Annals of "Dunarea de Jos" University Of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year III (XXXIV), No. 1, pp.35-39, 2011
6	2011	<u>Picu, M.</u> , Năstac, S.	Influența sunetelor cu frecvențe mici asupra comportamentului uman, Buletinul Institutului Politehnic Din Iași, Tomul LVII (LXI), Fasc. 5, 2011, pp.83-88
7	2010	Năstac, S., <u>Picu, M.</u>	A Study on The Sensation of Discomfort Induced by Cars Vibrations to the Drivers, Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year II (XXXIII), No. 2, pp. 93-98, 2010
8	2010	<u>Picu M.</u> , Năstac S.	Assessment of the Response to Whole-Body-Vibration on the Mechanics of Engine Room in a Push/Tug Boat, Ovidius University Annals of Mechanical, Industrial and Maritime Engineering, Vol.XII, Tom I, ISSN 1223-7221, ISSN 1224-1776, pp. 86-90, 2010
9	2010	Năstac, S., <u>Picu, M.</u>	Evaluating methods of whole-body-vibration exposure in trains, Annals of "Dunarea de Jos" University Of Galati, Fascicle XIV, Mechanical Engineering, Vol.2, pp. 55–60, 2010
10	2007	<u>Picu, M.</u> , Picu, A.	Study of noise produced by elevators inside buildings, The Annals of „Dunarea de Jos” University of Galati, Fascicle XIV, pp. 41-44, Mechanical Engineering, ISSN 1224-5615, 2007
11	2006	<u>Picu, M.</u> , Tudose, C.	NDT of cementous materials, The Annals of „Dunarea de Jos” University of Galati, Fascicle XIV, pp. 46-49, Mechanical Engineering, ISSN 1224-5615, 2007
12	2004	<u>Picu, M.</u> ,	Research regarding the investigation of steel hardness, Analele Universitatii "Dunarea de Jos" din Galati, Fascicola XIV, Inginerie Mecanica(The Annals of" Dunarea de Jos" University of Galati, Fascicle XIV, Mechanical Engineering), pp. 81-84

C) Publicații *in extenso*, apărute în lucrări ale principalelor conferințe internaționale de specialitate

C.1) Publicații apărute în volume de lucrări indexate ISI (2010-2011)

Nr.	An	Autori	Titlu
1	2011	Sireteanu, T., <u>Picu, M.</u> , Nastac, S.	Study of Human Vibration on Soil Compaction Equipment Operative, The 10th International Conference on Vibration Problems, September 5-8, 2011, Prague, Czech Republic, Series: Springer Proceedings in Physics, Vol. 139, Hardcover, ISBN 978-94-007-2068-8, ISSN: 0930-8989
2	2010	<u>Picu M.</u> , Năstac S.	Numerical Simulations of Human Protective Devices against Technological Vibration, The Proceedings of the 1st EAA-EuroRegio 2010 Congress on Sound and Vibration, 15-18 September 2010, Ljubljana, Slovenia, ISBN 978-961-269-283-4, paper 232
3	2010	Picu, A., Năstac, S., <u>Picu, M.</u>	The Effect of the Vehicles' Whole Body Vibrations on the Fatigue State of Romanian Drivers, Latest Trends on Engineering Mechanics, Structures, Engineering Geology, The Proceedings of The 3rd WSEAS International Conference on Engineering Mechanics, Structures, Engineering Geology - EMESEG '10, Corfu 2010, ISSN: 1792-4294, ISBN: 978-960-474-203-5, pp.239-244

C.2) Publicații apărute în volume de lucrări ale Conferințelor/ Congreselor Internaționale din România (2009-2014)

Nr.	An	Autori	Titlu
1	2014	<u>Picu, M.</u>	Traffic, railway and industrial noise – the discomfort reflected in conflict maps. A case study in Braila, Romania, International Workshop “Environmental Conflicts: Planning, Issues and Resolution” Planning, Issues and Resolution”, Centre for Environmental Research and Impact Studies, Bucharest, September 4 – 6, 2014
2	2014	<u>Picu, M.</u>	Sorting nodular graphite cast iron from the lamellar graphite cast iron using ultrasonic transparency, The VIth edition of International Conference UgalMat 2014, Galati, Romania, May 29-31, 2014
3	2013	<u>Picu, M.</u>	The Risk of Workers Exposure at Low Frequencies Noises, Conference ModTech 2013, Sinaia, 27-29 iunie, 2013
4	2009	<u>Picu, M.</u>	Experimental investigation of the professional whole body vibrations, 10th International Balkan Workshop on Applied Physics, July 6 – 8, 2009, Constanta, Romania

D) Publicații in extenso, apărute în lucrări în alte reviste de specialitate

D.1) Lucrări apărute în publicații ale conferințelor organizate sub egida Academiei Române (2007-2014)

Nr.	An	Autori	Titlu
1	2014	<u>Picu, M.</u>	Study on how combat noise pollution due traffic and industrial activity, SISOM 2014 - Institute of Solid Mechanics and Commission of Acoustics of Romanian Academy
2	2014	<u>Picu, M.</u>	Development of a mathematical model of an acoustically absorbent profile, SISOM 2014 - Institute of Solid Mechanics and Commission of Acoustics of Romanian Academy
3	2013	<u>Picu, M.</u>	A whole body vibrations study on crew personnel, SISOM 2013 - Institute of Solid Mechanics and Commission of Acoustics of Romanian Academy
4	2012	<u>Picu, M.</u>	An experimental study on HAV and WBV, The Annual Symposium of the Institute of Solid Mechanics, 2012
5	2011	<u>Picu, M.</u> Năstac, S.	Experimental determinations of palmar sensibility of workers exposed to HAV, SISOM 2011 - Institute of Solid Mechanics and Commission of Acoustics of Romanian Academy
6	2011	<u>Picu, M.</u> Năstac, S.	Relationships between vibrations and personality, Zilele Academice Timișene, Ediția a XII-a, Simpozionul Acoustics And Vibration Of Mechanical Structures, Academia Română, Filiala Timișoara, 26-27 May 2011, Timișoara
7	2010	<u>Picu, M.</u> Năstac, S.	A study on vibration propagation through alluvial soils of the Danube Meadow, SISOM 2010 - Institute of Solid Mechanics and Commission of Acoustics of Romanian Academy
8	2009	<u>Picu, M.</u>	A study upon noise pollution in discos, International Symposium AVMS'2009-Timișoara, May 28, 2009
9	2009	<u>Picu, M.</u>	Hand-arm vibration analysis for tractor drivers, SISOM 2009 - Institute of Solid Mechanics and Commission of Acoustics of Romanian Academy

10	2008	<u>Picu, M.</u> Picu, A.	View upon the sound field diffusion in closed spaces, SISOM 2008 - Institute of Solid Mechanics an Comission of Acoustics of Romanian Academy
11	2007	<u>Picu, M.</u>	The acceptability of the noise level in the work environment, SISOM 2007 - Institute of Solid Mechanics an Comission of Acoustics of Romanian Academy

D.2) Lucrări în reviste de specialitate de circulație națională (fără indexare ISI/BDI) (2010-2013)

Nr.	An	Autori	Titlu
1	2013	Șerban, C. (student masterand), <u>Picu, M.</u>	An evaluation and analysis of noise caused by traffic in a populated area of Braila city, Research & Science Today, No. 1(7), pp. 117-124, 2014
2	2013	<u>Picu, M.</u>	A study on the relationship between noise and domestic violence, Sinteze de Mecanica Teoretica si Aplicata, Volumul 1 No. 1, 2013
3	2012	<u>Picu, M.,</u> Militaru, G. (student masterand)	Curba Rrailsback modificată a unui pian Gebruder Stingl Wienn, Al XVIII-lea Simpozion național de utilaje pentru construcții SINUC 2012, Universitatea Tehnică de Construcții București
4	2012	<u>Picu, M.,</u> Popa, I. (student masterand)	Studiul confortului din punct de vedere al trasmiterii vibrațiilor șoferilor de automobile, Al XVIII-lea Simpozion național de utilaje pentru construcții SINUC 2012, Universitatea Tehnică de Construcții București
5	2012	<u>Picu, M.</u> Năstac, S.	O modelare a vibratiilor mecanice transmise corpului uman, Sinteze de mecanica teoretica si aplicata, vol. 1, 2012
6	2011	<u>Picu, M.</u> Năstac, S.	Efectele vibratiilor asupra operatorilor de excavatoare, Sinteze de mecanica teoretica si aplicata, nr. 2, 2011
7	2010	<u>Picu M.,</u> Năstac S.	Efectele vibrațiilor asupra operatorilor de excavatoare, Al XVI-lea Simpozion Național de Utilaje pentru Construcții - SINUC 2010, 16-17 decembrie 2010, București, CD-Proceedings, ISBN 978-973-100-144-9
8	2010	Năstac S., <u>Picu M.</u>	Studii experimentale privind percepția vibrațiilor generate de echipamentele de construcții asupra oamenilor, Al XVI-lea Simpozion Național de Utilaje pentru Construcții - SINUC 2010, 16-17 decembrie 2010, București, CD-Proceedings, ISBN 978-973-100-144-9

E) Teza de doctorat

Cercetări privind utilizarea ultrasunetelor în industria alimentară

1997 – Universitatea „Dunărea de Jos” Galați

F) Brevet

- ▶ **M. Picu, G. M. Costin**, Metodă ultrasonică pentru urmărirea procesului de coagulare a laptelui, (Nr. invenție: RO117213-B)

Proiect

- ▶ **M. Picu**, 2008 - director - proiect de tip „Capacități”: „Laborator interdisciplinar pentru măsurări vibro-acustice în mediul ocupațional” - valoare 412692 Euro.