

Other publications considered significant (authors members of the research unit will be highlighted in bold font)

Label	Of	The reference (Authors, Article title, Title of journal/conference/book, Volume, Page, Year) (1)	Year published (2)
O1		Cretu, M.; Teleaba, V.; Ionescu, S.; Ionescu, A. - Case study on pollution prediction through atmospheric dispersion modelling, RECENT ADVANCES IN MATHEMATICS AND COMPUTERS IN BUSINESS, ECONOMICS, BIOLOGY & CHEMISTRY, Pages: 122-127, 11th WSEAS International Conference on Mathematics And Computers In Biology And Chemistry (MCBC '10)	2010
O2		Grigorescu, M.; Matache, G.; Puscasu, C.; Voicu, R. - Cresterea eficientei energetice a turbomotoarelor utilizate in ciclul cogenerativ dezvoltand materiale avansate noi cu baza titan si acoperiri de suprafata speciale; The 2-nd International Conference Science and Technology in the context of the Sustainable Development"- Ploiesti, Universitate de Petrol si Gaze publicat in buletinul Universitatii Petrol si gaze Ploiesti Buletinul Universitatii Petrol – Gaze din Ploiesti vol LXII no3B / 2010 ISSN1224-8495, Pg 113-120	2010
O3		Popescu, J.A.; Vilag V.A. - Utilization of Renewable Fuels in Aviation Gas Turbines, Metalurgia International vol. XV (2010), no.1 ISSN 1582-2214	2010
O4		Carlanescu, G.; Puscasu, C.; Grigorescu, M. ; - High Temperatures, Abradability and Corrosion New Resistant Material Integrated with Original Technologies Addressed to Surface Covering of Elastic Components of Gas Turbine; METALURGIA INTERNATIONAL Volume: 13 Special Issue: 3 Pages: 63-66	2008
O5		Cuciumita C.F.; Barbu, E.; Silivestru, V.; Petcu, R.; Vilag, V.A. - Numerical Analysis of Two Types of Natural Gas Burners for the Comparison of NO Emissions; ENERGY PROBLEMS AND ENVIRONMENTAL ENGINEERING Pages: 447-451, 3rd WSEAS International Conference on Energy Planning, Energy Saving, Environmental Education/3rd WSEAS RES 2009/3rd WSEAS WWAI 2009, Tenerife, SPAIN	2009
O6		Cuciumita, C.F.; Vilag, V.A.; Petcu, R.; Bogoi, A.; Stanciu, V. - The Simulation of the Loads' Effect upon the Geometry of a Turbine Rotor, ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM, Volume: 20, Pages: 787-788	2009
O7		Dediu, G.; Popescu, J.A.; Cuciumita, C.F.; Vilag, V.A.; Petcu, R.; Stanciu, V. - Pilot Automation System for Gas Turbines Testing, ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings, Volume: 20, Pages: 1513-1514	2009
O8		Ilie, V.; Roman, C.; Vilag, R.; Vilag, V.A. ; - Computing the propagation of the financial crisis using the finite volume method, Metalurgia International vol. 14 (2009) ISSN 1582-2214	2009
O9		Ionescu, S.; Ionescu, A.; Codoban, R.; Enescu, N.; Magheti, I. - Acoustic measurements and scenarios to reduce noise at A natural gas compression station (ISSN: 1726-9679, ISBN: 978-3-901509-70-4, pag 0959-0960, 2009), The 20th International DAAAM Symposium „Intelligent Manufacturing & Automation: Theory, Practice & Education”, 25-28 November 2009, Vienna, Austria	2009
O10		Popescu, J.A.; Vilag, V.A.; Barbu, E.; Silivestru, V.; Stanciu, V. - Emission Level Calculation for Water Injection in Gas Turbines; ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM Volume: 20 Pages: 383-384, 20th International Danube-Adria-Association-for-Automation-and-Manufacturing Symposium, Vienna, AUSTRIA	2009
O11		Popescu, J.A.; Vilag, V.A.; Barbu, E.; Silivestru, V.; Stanciu, V. - Estimation and Reduction of Pollutant Level on Methane Combustion in Gas Turbines; ENERGY PROBLEMS AND ENVIRONMENTAL ENGINEERING Pages: 447-451, 3rd WSEAS International Conference on Energy Planning, Energy Saving, Environmental Education/3rd WSEAS RES 2009/3rd WSEAS WWAI 2009, Tenerife, SPAIN	2009
O12		Puscasu, C.; Carlanescu, G.; Grigorescu, M.; Constantin, N.; Dobrescu, C.; Gheorghie, N. - Researches Regarding the Carrying Out of Ceramic Crust Used for Precision Investment Casting of High Performances Centrifugal Rotors; METALURGIA INTERNATIONAL Volume: 14 Issue: 7 Pages: 12-13	2009
O13		Robescu, D.; Calin, A.; Robescu, D.N.; Nasaramba, B. – Simulation of attached growth biological wastewater treatment process in mobile bed biofilm reactor, Proceedings of 10th International Conference on Mathematics and Computers in Biology and Chemistry (MCBC'09), Prague, Czech Republic, March 23-25, 2009, pp. 157-161, ISSN 1790-5125, ISBN 978-960-474062-8	2009
O14		Robescu, D.; Mocanu, R.; Robescu, D.N. – New method for biological wastewater treatment in sewerage system, Proceedings of 10th International Conference on Mathematics and Computers in Biology and Chemistry (MCBC'09), Prague, Czech Republic, March 23-25, 2009, pp. 153-156, ISSN 1790-5125, ISBN 978-960-474062-8	2009
O15		Savu, G. - Using The Black Sea As Airspace For Satellites Launching; RAST 2009: PROCEEDINGS OF THE 4TH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN SPACE TECHNOLOGIES Pages: 497-501	2009
O16		Silivestru, V.; Puscasu, C.; Grigorescu, M.; Constantin, N.; Dobrescu, C.; Gheorghie, N. - To Increase Energetic Efficiency of Centrifugal Compressors Through Integration of New Technologies and Materials in the Fields of Surface Covering in order to Short the Rotor - Stator Gap; METALURGIA INTERNATIONAL Volume: 14 Issue: 7 Pages: 9-11	2009
O17		Vilag, R.; Vilag, V.A.; Trica, S.; Popescu, J.; Ionescu, G.; Botea, L. - Using the Finite Volume Method in Computing the Propagation of the Financial Crisis in the Real Economy, ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM, Volume: 20, Pages: 1359-1360	2009
O18		Vilag, V.A.; Popescu, J.A.; Petcu, R.; Silivestru, V. - Aerodynamic Profile Parameterization and Optimization MATHEMATICAL METHODS, SYSTEMS THEORY AND CONTROL, Pages: 218-223, 11th WSEAS International Conference on Mathematical Methods, Computational Techniques and Intelligent Systems/8th WSEAS NOLASC 2009/5th WSEAS CONTROL 2009, Tenerife, SPAIN	2009
O19		Vilag, V.A.; Popescu, J.A.; Petcu, R.; Silivestru, V.; Berbente, C. - Aerodynamic Profile Design Using Genetic Algorithms and CFD, ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings, Volume: 20 Pages: 473-474	2009
O20		Cretu, M.; Puscasu, C.; Grigorescu, M. Innovative Technology to Prevent Surface Waters Pollution by Recovering Dangerous Chemical Substances from Technological Coolants and Using Them as Valuable Raw Materials in Industrial Processes; ; METALURGIA INTERNATIONAL Volume: 13 Special Issue: 3 Pages: 91-94	2008

O21	Cuciumita, C.F.; Petcu, R.; Vilag, V.A. ; Stanciu, V. - The Transformation of the CFM 56-7 Turbofan of a Triple Flow Jet Engine: A Way of Reducing Noise Pollution, ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM, Pages: 337-338	2008
O22	Cuciumita, C.F.; Silivestru, V. ; Stanciu, V. - The Modelling of Thrust Force for Generalised Nozzles Using Supply Coefficients, ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM, Pages: 543-544	2008
O23	Marical, P.; El-Kettani, M.E.C.; Predoi, M.V. - On the propagation in a waveguide with Gaussian section Variation: Inverse problem to determine the hiding waveguide profile and separation of converted modes contributions in the case of multi-incident modes, experimental and numerical studies; 2007 IEEE ULTRASONICS SYMPOSIUM PROCEEDINGS, VOLS 1-6, Pages: 2299-2302	2007
O24	Obreja, S.G.; Borcoci, E.; Lupu, R.; Iorga, R. - Web-service solution for inter-domain QoS negotiation - CTRO 2008: INTERNATIONAL CONFERENCE ON COMMUNICATION THEORY, RELIABILITY, AND QUALITY OF SERVICE, PROCEEDINGS Pages: 95-102	2008
O25	Popescu, J.A.; Vilag, V.A.; Petcu, R.; Silivestru, V. ; Stanciu, V. - Aero-Derivative Gas Turbines Fueled by Biogas - ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM, Pages: 1125-1126, 19th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing, Trnava, SLOVAKIA	2008
O26	Robescu, D.; Jivan, N.; Robescu, D.N. - Modelling Chlorine Decay in Drinking Water Mains - ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 7 Issue: 6 Pages: 737-741	2008
O27	Robescu, D.; Robescu, D.N. - Modeling and simulation of the dissolved oxygen concentration profiles in a mobile bed biofilm reactor, Proceedings of the 10th WSEAS International Conference on MATHEMATICAL AND COMPUTATIONAL METHODS in SCIENCE and ENGINEERING (MACMESE'08), Bucharest, Romania, November 7-9, 2008, pp. 128-132, ISBN 978-960-474-019-2	2008
O28	Robescu, D.; Robescu, D.N. - Modeling and Linear Stability Analysis of the Biological Processes in the Mobile Bed Biofilm Reactor - Proceedings of the 7th International Conference on SYSTEM SCIENCE and SIMULATION in ENGINEERING (ICOSSSE'08), Venice, Italy, November 21-23, 2008, pp. 235-239, ISSN 1790-2769, ISBN 978-960-474-027-7,	2008
O29	Stefanescu, M. ; Nicolae, C; Neacsu, S. - The new approach of the maintenance. The analyze of the monitoring, control and check up processes for the functionality of the turbojets; METALURGIA INTERNATIONAL Volume: 13 Special Issue: 3 Page: 43	2008
O30	Vilag, V.A.; Popescu, J.A.; Petcu, R.; Bogoi, A.; Silivestru, V. - Numerical Study of an Axial Gas-Turbine Stage, ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM, Pages: 1475-1476, 19th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: Trnava, SLOVAKIA	2008
O31	Boonmee, S.; Gyesi, B.; Stefanescu, D.M. - Casting Skin of Compacted graphite Iron part I: Evaluation and Mechanism of Formation, Transactions of the American Foundry Society, vol 118, pages 205-216	2010
O32	Boonmee, S.; Stefanescu, D.M. - Casting Skin of Compacted Graphite Iron Part II: Influence on Tensile Mechanical Properties, Transactions of the American Foundry Society, vol. 118, pages 217-224	2010
O33	Stefanescu, D.M. ; Wills, S.; Massone, J; Duncan, F - Quantification of Casting Skin in Ductile and Compacted Graphite Irons and Its Effect on Tensile Properties, Transactions of the American Foundry Society, vol 117, pages 587-606	2009

Books published at national or international publishers (authors members of the research unit will be highlighted in bold font)

Label B#	Year published (1)	Author(s)	Book title	Publisher	ISBN	Available in number of libraries (2)
B1	2007	Ionut Porumbel	LES of Bluff Body Stabilized Premixed and Partially Premixed Combustion	VDM Verlag Dr. Muller, Germany	978-3-8364-6115-3	17
B2	2008	Ionel Pisa, Florentina Borcea, Ene Barbu , Catalina Marinescu, Cristina Ciobanu	Utilizarea combustibililor gazosi regenerabili pentru producerea de energie (Use of renewable gaseous fuels for energy production)	Editura Perfect	978-973-7984-53-1	
B3	2008	Marian Bunea, Ion Lungu, Mihaela Taca, Daniela Buzescu , Nicoleta Vlad, Dumitru Parsu, Mihail Radutoiu	Tehnologie integrata de optimizare a performantelor lagarelor cu alunecare: proiect CEE: sistem tehnologic integrat de optimizare a performantelor lagarelor in regim tranzitoriu (Integrated technological system for bearings with optimized performances during transitory regime)	Editura Univers Stiintific	978-973-8936-97-3	
B4	2008	Mariana Steafnescu, Valentin Silivestru, Liviu Adam, Sorin Neacsu, Ion Florea, Cristian Epuru	Mentenanata turbomotoarelor (Gas turbines maintenance)	Editura Universitatii Petrol si gaze, Ploiesti	978-973-719-251-6	
B5	2010	Radu Voinea, Ion Stroe, Mihai Valentin Predoi	Technical Mechanics	Politehnica Press	978-606-515-184-0	2
B6	2011	Lacramioara Diana Robescu, Felix Stroe, Aurel Presura, Dan Nicolae Robescu	Tehnici de epurare a apelor uzate (Wastewater treatment methods)	Editura Tehnica	978-973-31-2381-1	
B6	2011	Diana Robescu, Dan Robescu , Szabolcs Lanyi, Valentin Silivestru , Sergiu Iliescu, Grigore Vlad, Ilie Catana, Ioana Fagarasan, Marin Ionescu , Valentin Panduru, Dumitru Belu , Raluca Mocanu	Controlul automat al proceselor de epurare a apelor uzate (Automatic control of wastewater treatment processes)	Editura Tehnica	978-973-31-2335-4	
B7	2011	Mihai Valentin Predoi	Vibratii Mecanice - Modele si aplicatii in Matlab (Mechanical Vibrations - Models and applications in MATLAB)	Editura Matrix Rom	978-973-755-687-5	2
B8						

Book chapters published in collective volumes at national or international publishers (authors members of the research unit will be highlighted in bold font)

Label BC#	Year published (1)	Author(s)	Chapter title	Volume title	Publisher	ISBN	Available in number of libraries (2)
BC1	2008	Tudor Cuclic, Larisa Andronic, Constantin Eusebiu Hritcu , Gheorghe Moldovan	Procedeu de protectie activa a plantelor contra ingheturilor tipuri de toamna si tarzii de primavara prin aplicarea cetei artificiale (Procedure of plants active protection to early autumn and late spring freezes through artificial fog application)	Diminuarea impactului factorilor pedoclimatici extremali asupra plantelor de cultura (Diminution of the Impact of Extremal Pedoclimatic Factors on Agricultural Plants)	Editura Academiei de Stiinta a Moldovei	978-9975-62-231-8	http://www.intechopen.com/books/show/title/advances-in-gas-turbine-technology
BC2	2009	Ioan Magheti, Luminita Hossu , Catalin Ion	The active noise control	Research Trends in Mechanics, vol. 3	Editura Academiei Romane	978-973-27-1816-2	
BC3	2011	Ene Barbu, Valeriu Vilag, Jeni Popescu, Silviu Ionescu, Adina Ionescu, Romulus Petcu, Cleopatra Cuciumita, Mihaiella Cretu, Constantin Vilcu, Tudor Prisecaru	Afterburning Installation Integration into a Cogeneration Power Plant with Gas Turbine by Numerical and Experimental Analysis	Advances in Gas Turbine Technology	INTECH Croatia (Book edited by: Dr. Ernesto Benini, Dept. of Mechanical Engineering, University of Padova, Italy)	978-953-307	http://www.intechopen.com/books/show/title/advances-in-gas-turbine-technology
BC4	2011	Radu Polizu	Chapter 18 - Energy efficiency building codes	Geotrainet Training Manual for Designers of Shallow Geothermal Systems	Geotrainet, EFG, Brussels	ISBN nr.978-2-9601071-0-4	www.geotrainet.eu
BC5	2011	Radu Polizu , Radu Hanganu Cucu	Chapter 13 - BHE design examples - A Case Study of Good Practice in Ground Heating/Cooling Sources	Geotrainet Training Manual for Designers of Shallow Geothermal Systems	Geotrainet, EFG, Brussels	ISBN nr.978-2-9601071-0-5	www.geotrainet.eu

(1) Between 2007 and 2011

 (2) http://www.ubka.uni-karlsruhe.de/kvk_en.html