

Lista de lucrări

Numele și prenumele:

BĂDĂRĂU GHEORGHE

A. Teza de doctorat.

Contribuții la studiul recuperatoarelor de căldură cu tuburi termice

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

Editors: Agop, M., Ioannou, P.D., Nica, P., Păun, V., The Fractal and Its Implications in the Materials Science, Athens University Press, ISBN 978-960-92410-1-4, cap V – Bădărău, Gh., et.al. Experimental and Theoretic Aspects in the Laser Produced Plasma, pp. 189-213.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

1. Raileanu, T., Mirea, C., Grancea, V., Badarau, Gh., Cucos, I., 2002, Utilaje si masini pentru pregatirea amestecurilor de formare, Editura "Gh.Asachi" Iasi, ISBN 973-8292-77-8
2. Badarau, Gh., Minea, A.A., Stefan, M., 2003, Proprietatile materialelor metalice, Editura "Gh.Asachi" Iasi, ISBN 973-621-018-9
3. Stefan, M., Mihai, D., Ionita, I., Badarau, Gh., Constantin, B., 2004, Metode numerice si implementarea lor pe calculator. Metode de rezolvare numerica a ecuatiilor neliniare si transcendente, Editura Tehnopress, Iasi, ISBN 973-702-087-1
4. Stefan, M., Badarau, Gh., Ionita, I., Vizureanu, P., Raileanu, T., Baci, C., Manole, V., Mihai, D., 2007, Conducerea automata si informatizata in procesarea materialelor metalice, Editura Tehnopress, Iasi, ISBN 978-973-702-438-1
5. Stefan, M., Vizureanu, P., Bejinariu, C., Badarau, Gh., Manole, V., 2008, Studiul proprietăților termice ale materialelor, Editura Tehnopress, Iasi, ISBN 978-973-702-566-0

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. Simionescu, A., Raileanu, T., Nejneru, C., Hegyi, E., Badarau, Gh., 1995, Utilaje metalurgice specifice-Indrumar de laborator, Universitatea Tehnica "Gh. Asachi" Iasi
2. Dima, A., Raileanu, T., Badarau, Gh., Vizureanu, P., 1997, Echipamente si utilaje specifice (Turnarea metalelor, deformari plastice si tratamente termice), Universitatea Tehnica "Gh. Asachi" Iasi

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

Proprietățile materialelor metalice – note de curs

Alegerea și utilizarea materialelor metalice –exemplu ptr. temă de casă.

F. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

a) Revistele Academiei

1. Bejinariu, C., Malureanu, I., florescu, A., Badarau, Gh., 1995, Cercetari experimentale privind alegerea formei semifabricatului in vederea obtinerii piulitelor olandeze prin extrudare indirecta, la rece, din otel, Academia Romana, Filiala Iasi, Tehnologii, sisteme tehnologice si materiale performante in constructia de masini (TSTM-1), vol I, pp.70-74
2. Susan, M., Malureanu, I., Florescu, A., Badarau, Gh., Scanteianu, N., 1995, Instalatie si conditii de realizare a sistemelor ultraacustice inchise la trefilarea sarmelor in camp ultrasonor cu filiera situata in maximul oscilatiei si activata paralel cu directia de tragere, Academia Romana, Filiala Iasi, Tehnologii, sisteme tehnologice si materiale performante in constructia de masini (TSTM-1), vol I, pp.142-146

3. Munteanu, C., Rusu, I., Badarau, Gh., 1995, Caracterizarea magnetica a benzilor metalice feromagnetice amorfe din sistemul Fe40Ni40B20 prin histeresis magnetic, Conferinta cu participare internationala "Optimizarea tehnologiilor de prelucrare in constructia de masini", Bacau octombrie, Editura Academiei Romane – Filiala Iasi, vol II, pp. 274-278
4. Munteanu, C., Rusu, I., Badarau, Gh., 1995, Caracterizarea magnetica a benzilor metalice feromagnetice amorfe din sistemul Fe40 Ni40, B12Si8 prin metoda magnetometrului, Conferinta cu participare internationala "Optimizarea tehnologiilor de prelucrare in constructia de masini", Bacau octombrie, Editura Academiei Romane – Filiala Iasi, vol II, pp. 279-283
5. Dima, A., Badarau, Gh., Vizureanu, P., Toth, L., Ivanov, P., Stefan, M., Grancea, V., 1996, Some contributions brought by the Romanian science upon the computer assisted designing of technologies and hot working equipment, Romanian Academy, branch office of Iasi, Optimum technologies, technological systems and materials in the machine building field (TSTM-2), pp. 122-117, ISSN 1224-7499
6. Catarschi, V., Dima, A., Comanici, R., Rusu, I., Badarau, Gh., 1996, The determination of the maintaining time at the temperature of the heating furnace as a function of the thermal gradient inside the ingot, Romanian Academy, branch office of Iasi, Optimum technologies, technological systems and materials in the machine building field (TSTM-2), pp. 146-151, ISSN 1224-7499.
7. Rusu, I., Munteanu, C., Badarau, Gh., 1996, The study of the cooling effect by means of dimensional analysis, Romanian Academy, Branch Office of Iasi, Optimum technologies, technological systems and materials in the machine building field (TSTM-2), pp. 177-182, ISSN 1224-7499
8. Susan, M., Malureanu, I., Alexandru, I., Bulancea, V., Rusu, I., Badarau, Gh., 1996, The influence of ultrasonics upon the technological deformability of the wires drawing from RUL IV, Romanian Academy, branch office of Iasi, Optimum technologies, technological systems and materials in the machine building field (TSTM-2), pp. 162-167, ISSN 1224-7499
9. Susan, M., Dima, A., Catarschi, V., Badarau, Gh., Vizureanu, P., 1998, Variatia caracteristicilor magnetice la trefilarea sarnelor din oteluri prin activarea filierei cu oscilatii de frecventa ultrasonica, Academia Romana, Filiala Iasi, Simpozionul Materiale-Energie-Mediu, Zilele Academiei Iesene, Iasi, pp.50-55.
10. Badarau, Gh., Dima, A., Simionescu, A., Nanescu, V., 1999, New technology of heat pipe heat recovery systems control, Modelling and optimization in machine building field, (MOCM-4) Romanian Academy, Branch Office of Iasi, pp. 151-155

b) Buletinele universitatilor din Bucuresti, Iasi, Cluj Napoca, Timisoara

1. Raileanu, T., Hopulele, I., Mirea, C., Manole, V., 1994, Considerations concerning the necessity of application of heat treatments in a liquid phase at some cast iron Parts, Buletinul I.P.Iasi, tomul XL(XLIV), fasc. 1-4, vol II, Sectia IX Stiinta si ingineria materialelor, pp.562-565
2. Raileanu, T., Mirea, C., badarau, Gh., Manole, V., Florescu, A., 1994, Researches concerning the heat treatment from the liquid phase at cast iron parts using the electric arc, Buletinul I.P.Iasi, tomul XL(XLIV), fasc. 1-4, vol II, Sectia IX, pp. 566-570
3. Simionescu, A., Nanescu, V., Badarau, Gh., 1994, Materials used at the heat pipe manufacturing, Buletinul I.P.Iasi, Tom XL(XLIV) Fasc. 1-4, vol. II, Sectia IX, Stiinta si ingineria materialelor, pp.747-753.
4. Isachi, P., Ghelbere, S., Badarau, Gh., 1994, Controlled atmospheres produced by the thermal decomposition of methylic alcohol with methane added, Buletinul I.P.Iasi, Tom XL(XLIV) Fasc. 1-4, vol. II, Sectia IX, Stiinta si ingineria materialelor, pp.1033-1039

5. Badarau, Gh., Simionescu, A., 1996, New heat pipe heat recovery system for heat recovery from ventilating and air conditioning installations, Buletinul I.P.Iasi, Tom XLII(XLVI) Fasc. 3-4, vol. II, Sectia IX, Stiinta si ingineria materialelor, pp.151-155
6. Catarschi, V., Malureanu, I., Gheorghiu, D., Badarau, Gh., 1996, The influence of some steel thermophysical characteristics over the ingots heating technologies computer designed for forging, Buletinul I.P.Iasi, Tom XLII(XLVI) Fasc. 3-4, vol. II, Sectia IX, Stiinta si ingineria materialelor, pp.453-457
7. Catarschi, V., Susan, M., Gheorghiu, D., Badarau, Gh., Dragan, T.A., 1996, Contributions considering the computer designed technologies for steel ingots heating, in "INCFOR" programs, Buletinul I.P.Iasi, Tom XLII(XLVI) Fasc. 3-4, vol. II, Sectia IX, Stiinta si ingineria materialelor, pp.507-514
8. Badarau, Gh., Simionescu, A., Nanescu, V., 1998, Contributions concerning the study of the control of the operation of heat pipe heat recovery systems, Buletinul I.P.Iasi, Tom XLIV(XLVIII) Fasc. 1-4, Sectia IX, Stiinta si ingineria materialelor, pp.119-123, ISSN 1453-1690.
9. Dima, A., Toth, L., Badarau, Gh., Minea, A.A., Vizureanu, P., 1998, Experimental; determination of optimum size of the austenitic grain by means of heat treatment cycles in laboratory conditions, Buletinul I.P.Iasi, Tom XLIV(XLVIII) Fasc. 1-4, Sectia IX, Stiinta si ingineria materialelor, pp. 125-133, ISSN 1453-1690..
10. Badarau, Gh., Simionescu, A., Dima, A., Nanescu, V., 1999, Fluid inventory in gravitational heat pipes, Buletinul I.P.Iasi, Tom XLV(XLIX) Fasc. 1-2, Sectia Stiinta si ingineria materialelor, pp.1-6, ISSN 1453-1690.
11. Badarau, Gh., Simionescu, A., Alexandru, I., Nanescu, V., 1999, Experimental results obtained at the gravitational heat pipe testing using the metode of temperature profiles, Buletinul I.P.Iasi, Tom XLV(XLIX) Fasc. 1-2, Sectia Stiinta si ingineria materialelor, pp.7-10 ISSN 1453-1690.
12. Badarau, Gh., Simionescu,A., Nanescu, V., 1999, A possible theoretical argument about the influence of the tilting angle on the gravitational heat pipe operation, Buletinul I.P.Iasi, Tom XLV(XLIX) Fasc. 1-2, Sectia Stiinta si ingineria materialelor, pp.11-14, ISSN 1453-1690.
13. Badarau, Gh., Simionescu,A., 2001, The use of the temperature profile metode at the study of gravitational heat pipes heat exchangers condenser section, Buletinul I.P.Iasi, Tom XLVII(LI) Fasc. 3-4, Sectia Stiinta si ingineria materialelor, pp.29-32, ISSN 1453-1690.
14. Rusu, I., Badarau, Gh., Munteanu, C., 2001, Considerations concerning the laser processing of the diffusion microstructure of metallic materials, Buletinul I.P.Iasi, Tom XLVII(LI) Fasc. 3-4, Sectia Stiinta si ingineria materialelor, pp.165-170, ISSN 1453-1690.
15. Susan, M., Dima, A., Bejinariu, C., Badarau, Gh., 2001, Experimental research concerning the drawing of thin wall pipes in supersound field, Buletinul I.P.Iasi, Tom XLVII(LI) Fasc. 3-4, Sectia Stiinta si ingineria materialelor, pp.201-208, ISSN 1453-1690.
16. Badarau, Gh., Simionescu, A., Vizureanu, P., 2002, Diagnosis method and equipment for heat pipe heat recovery systems, Buletinul I.P.Iasi, Tom XLVIII(LII) Fasc. 1-2, Sectia Stiinta si ingineria materialelor, pp.255-260, ISSN 1453-1690.
17. Rusu, I., Dima, A., Badarau, Gh., 2002, Research concerning the use of vortex tubes for the conditioning, Buletinul I.P.Iasi, Tom XLVIII(LII) Fasc. 3-4, Sectia Stiinta si ingineria materialelor, pp.5-8, ISSN 1453-1690.
18. Badarau, Gh., Simionescu, A., Nanescu, V., 2002, The use of the temperature profile method at the study of gravitational heat pipe heat exchangers evaporator section, Buletinul I.P.Iasi, Tom XLVIII(LII) Fasc. 3-4, Sectia Stiinta si ingineria materialelor, pp.131-134, ISSN 1453-1690.

19. Badarau, Gh., 2002, Some considerations about the potential ecological impact of the use of heat pipes, Buletinul I.P.Iasi, Tom XLVIII(LII) Fasc. 3-4, Sectia Stiinta si ingineria materialelor, pp.135-137, ISSN 1453-1690.
20. Badarau, Gh., 2003, Considerations concerning the possibility of using heat pipes at the temperature control of casting dies, Buletinul I.P.Iasi, Tom XLIX(LIII) Fasc. 1-4, Sectia Stiinta si ingineria materialelor, pp.75-78, ISSN 1453-1690.
21. Badarau, Gh., 2003, Preliminary considerations about the introduction of the equivalent fluid film as a criterion of characterization for gravitational heat pipes, Buletinul I.P.Iasi, Tom XLIX(LIII) Fasc. 1-4, Sectia Stiinta si ingineria materialelor, pp.97-101, ISSN 1453-1690.
22. Bejinariu, C., Malureanu, I., Badarau, Gh., 2003, casting in centrifugal filed forces part II, Buletinul I.P.Iasi, Tom XLIX(LIII) Fasc. 1-4, Sectia Stiinta si ingineria materialelor, pp.115-120, ISSN 1453-1690.
23. Ionita, I., Stefan, M., Badarau, Gh., 2005, Metode de punct interior in optimizarea convexa a fortei de prehensiune a unui robot utilizat in procesul de turnare, Buletinul I.P.I. Fasc. 2, Tom LI(LV), pp. 279-282, Sectia Stiinta si Ingineria Materialelor. Iasi, ISSN 1453-1690
24. Badarau, Gh., Badarau, V., Ionita, I., Stefan, M., 2005, Diagnosis method and evaluation of the metallic materials choice, Buletinul I.P.I. Fasc. 1, Tom LI(LV), Sectia Stiinta si Ingineria Materialelor. Iasi, pp. 83-88, ISSN 1453-1690
25. Stefan, M., Ionita, I., Badarau, Gh., 2005, Metode de punct interior in optimizarea reguletoarelor liniare pentru conducerea predictive a cuptoarelor de tratament termic tip laborator, Buletinul I.P.I. Fasc. 2, Tom LI(LV), Sectia Stiinta si Ingineria Materialelor. Iasi, pp. 283-288, ISSN 1453-1690
26. Stefan, M., Badarau, Gh., Ionita, I., 2005, Optimizare si metode computationale in stiinta materialelor, Buletinul I.P.I. Fasc. 2, Tom LI(LV), Sectia Stiinta si Ingineria Materialelor. Iasi, pp. 289-292, ISSN 1453-1690
27. Stefan, M., Ionita, I., Badarau, Gh., 2005, Modelare matematica si optimizare in stiinta materialelor, Buletinul I.P.I. Fasc. 2, Tom LI(LV), Sectia Stiinta si Ingineria Materialelor. Iasi, pp. 293-296, ISSN 1453-1690
28. Badarau, Gh., Stefan, M., Ionita, I., 2005, Strategii de control a rationamentelor in sisteme expert bazate pe reguli de productie, Buletinul I.P.I. Fasc. 2, Tom XLI(LV), Sectia Stiinta si Ingineria Materialelor. Iasi, pp. 273-278, ISSN 1453-1690
29. Alexandru, M., Dima, A., Badarau, Gh., Vizureanu, P., Scanteianu, N., Hincu, D., 2006, Influenta tratamentului termic asupra structurii aliajului Ti6Al4V, Buletinul I.P.I. Fasc. 1, Tom XLII(LVI), Sectia Stiinta si Ingineria Materialelor. Iasi, pp. 9-14, ISSN 1453-1690
30. Alexandru, M., Badarau, Gh., Vizureanu, P., Minea, A.A., Manea, R., Alexandru, C., 2006, Tendinte de modernizare in laminarea la rece a profilelor parapet tip A, Buletinul I.P.I. Fasc. 1, Tom XLII(LVI), Sectia Stiinta si Ingineria Materialelor. Iasi, pp. 21-26, ISSN 1453-1690
31. Dia, V., Alexandru, M., Cojocara, M., Hincu, D., Badarau, Gh., Identification and Measurement of Quality Parameters from Residual Water, Who Are Specified to Technological Process of Thermal Zinc Plating, for Solve by Efficiency Way, the Chemical (Sewage) Treatment Process, with Straight Implication to the Environment, Buletinul I.P.I. Fasc. 2, Tom XLII(LVI), Sectia Stiinta si Ingineria Materialelor. Iasi, pp. 155-162, ISSN 1453-1690
32. Mihai, D., Stefan, M., Badarau, Gh., 2006, The Creep Behaviour at 500 °C for the Steel 41MoCr11, Buletinul I.P.I. Fasc. 2, Tom XLII(LVI), Sectia Stiinta si Ingineria Materialelor. Iasi, pp. 225-238, ISSN 1453-1690

G. Lucrări științifice publicate în volumele conferințelor.

- a. In volume (proceedings) ale conferintelor internationale (publicate integral)

1. Dima, A., Calancia, O., Badarau, Gh., Ciobanu, M., 1993, The computer assisted determination of technological parameters of heating process of ingots of distinct dimensions, The 7th International Metallurgy and Materials Congress, May 4-8, Ankara, Turkey (poster session)
2. Dima, A., Danila, R., Badarau, Gh., Tamasdan, L., 1993, The determination of technological parameters of the heating process of different chemical composition ingots by computer technics, The 7th International Metallurgy and Materials Congress, May 4-8, Ankara, Turkey (poster session)
3. Dima, A., Cucos, I., Badarau, Gh., Danila, R., 1993, Comparative study concerning the physico-mechanical features of moulded Al alloys thermal treated and untreated, The 15th International congress of thermal treatments, Dunaujvaros, 19-21 Oct., pp221-225.
4. Dima, A., Badarau, Gh., Chirila, E., Stefan, M., 1995, Constructive-functional dimensioning assisted by computer of the electrical furnace by induction (I), 3rd European conference on industrial furnace and boilers, Lisbon, 18-21 April, (poster session)
5. Dima, A., Badarau, Gh., Vizureanu, P., Ivanov, P., 1995, Constructive-functional dimensioning assisted by computer of the electrical furnace by induction (II), 3rd European conference on industrial furnace and boilers, Lisbon, 18-21 April, (poster session)
6. Rusu, I., Munteanu, C., Badarau, Gh., 1995, The obtaining and the study of the structure and magnetic properties of the metallic amorphous ferro-magnetic ribbons from Fe₈₀-xSmxB₂₀ system, 4th European conference on advanced materials and processes, Venice-Padua, Italy, 25-28 September, (poster session).
7. Munteanu, I., Munteanu, C., Rusu, I., Badarau, Gh., The study of the biocompatibility used for skull and abdominal surgery, 4th European conference on advanced materials and processes, Venice-Padua, Italy, 25-28 September, (poster session).
8. Grancea, V., Badarau, Gh., Vizureanu, P., 1995, Intensive preheating of the oxidant like an intensifying method of the burning process, XXVIII.KWT-Kolloquium, Dresda, Germania (sesiunea poster)
9. Grancea, V., Badarau, Gh., Ionita, I., Vizureanu, P., 1996, Experimental researches on a preheater with a fix layer of refractory balls, XXIX.KWT-Kolloquium, Dresda, Germania (sesiunea poster)
10. Munteanu, C., Jianu, A.D., Rusu, I., Badarau, Gh., 1996, Comparative study of electrical resistivity variation with temperature in metallic amorphous ribbons from Fe₈₀xRexB₂₀ (Re=Gd,Sm), 9th International conference on rapidly quenched and metastable materials, Bratislava, (sesiunea poster)
11. Rusu, I., Munteanu, C., Badarau, Gh., Galusca, D.G., Susan, M., 1996, Researches concerning the designing, optimization and use of vortex tubes in vcryogenic heat treatment technique, Metal'96 – 5th International metallurgical symposium, 14-16 May, Ostrava, Cehia, vol. 1, pp.133-135
12. Rusu, I., Munteanu, C., Badarau, Gh., Galusca, D.G., Susan, M., 1996, Researches on the determination of the optimum characteristics and using as a nonconventional device for local cooling, of the vortex micro-tubes, Metal'96 – 5th International metallurgical symposium, 14-16 May, Ostrava, Cehia, vol. 1, pp.136-139
13. Rusu, I., Munteanu, C., Badarau, Gh., 1996, New aspects concerning the utilization of the energetical separation effect for men apparatus thermal protection, Euromat '96 Topical Conference on materials and nuclear power, 21-23 Oct., Bournemouth, Great Britain, pp.401-403.
14. Susan, M., Rusu, I., Catarschi, V., Bejinariu, C., Badarau, Gh., , 1997, The influence of drawing speed at the drawing of wires made from bearing steels in supersound field, International conference on materials and advanced technologies-materials, functionally, and

materials, Euromat '97, Maastricht, The Netherlands, 21-23 April, vol.1, ISBN 90-803513-1-8, pp.713-716

15. Rusu, I., Munteanu, C., Dima, A., Badarau, Gh., Susan, M., 1997, Researches concerning vortex unconventional cooling equipment in metallurgical technology, International conference on materials and advanced technologies-materials, functionally, and materials, Euromat '97, Maastricht, The Netherlands, 21-23 April, vol.1, ISBN 90-803513-1-8, pp.491-494.

16. Susan, M., Dima, A., Badarau, Gh., 1997, Experimental results on the wires drawing form bearing steels in ultrasonic field, Conferinta "Echipamente pentru controlul si conducerea sistemelor tehnice, Vinita, Ucraina, tom.3, pp.200-205, ISBN 966-7199-11-8.

17. Grancea, V., Badarau, Gh., Vizureanu, P., Alexandru, C., Isachi, P., 1997, Studies concerning the burning optimization in ceramic burners that equip the modernized blast preheaters, Conferinta "Echipamente pentru controlul si conducerea sistemelor tehnice", Vinita, Ucraina, tom.3, pp.217-221, ISBN 966-7199-11-8.

18. Rusu, I., Munteanu, C., Badarau, Gh., Andrei, E., 1997, Possibilities of using the vortex effect of energy separation in thermochemical treatment, 6th. International metallurgical fair and symposium, Metal'97, Ostrava, Cehia, vol.IV, pp.169-171, ISSN 80-902142-9

19. Munteanu, C., Rusu, I., Badarau, Gh., Ciochina, C., 1997, Study of the electrical resistivity variation upon the temperature in amorphous metallic robbons from Fe₄₀Ni₄₀B₂₀ and Fe₄₀Ni₄₀B₁₂Si₈ systems, 6th. International metallurgical fair and symposium, Metal'97, Ostrava, Cehia, vol.IV, pp.194-197, ISSN 80-902142-9

20. Scanteianu, N., Simionescu, A., Badarau, Gh., Vieriu, G.B., 1997, Researches concerning the achievement of an ecological heating system in view of thermo-stabilisation of synthetic fibres in Litzer installation, XXIX Kraftwerkstechnisches Kolloquium, Dresden, Germania (sesiunea poster)

21. Rusu, I., Dima, A., Munteanu, C., Badarau, Gh., 1998, Researches concerning the possibilities of using vortex effect of energetical separation for gas drying, Euromat '98, Materials in oceanic environment, 22-24 July, Lisbon, Portugal, pp.355-357

22. Scanteianu, N., Badarau, Gh., Tofan, A., Carausu, A., Scanteianu, R.A., 1998, Analytical calculus methode for the diagram of heating in view of plastical deformation of semiproducts from which steam turbines rotors and pallets are being processed, XXX Kraftwerkstechnisches Kolloquium, 27-29 Oktober, Dresden, Germany, (poster session)

23. Scanteianu, N., Badarau, Gh., Asandului, V., Scanteianu, L., Isachi, P., Scanteianu, G., 1998, The study of the evolution of internal strains during the process of detensioning of cases and rotors for steam turbines, XXX Kraftwerkstechnisches Kolloquium, 27-29 Oktober, Dresden, Germany, (poster session)

24. Dima, A., Toth, L., Badarau, Gh., Minea, A.A., Vizureanu, P., 1999, Experimental researches of optimum determination of the heat treatment cycles in laboratory conditions, Conferinta "Echipamente pentru controlul si conducerea sistemelor tehnice", Vinita, Ucraina, tom.3, pp.316-321, ISBN 966-7199-34-7.

25. Dima, A., Vizureanu, P., Badarau, Gh., 1999, New trends in heat treating equipments, Conferinta "Echipamente pentru controlul si conducerea sistemelor tehnice", Vinita, Ucraina, tom.3, pp.322-325, ISBN 966-7199-34-7.

26. Baci, M., Badarau, Gh., Rusu, I., Despa, V., Baci, Cl., 2001, Researches on some mechanical properties of the OLC 15 and 21MoMnCr12 steels heat treated and thermomechanical treated in electrolytic plasma, 10th. International metallurgical and materials conference, Ostrava, Cehia, 15-17 May

27. Scanteianu, N., Badarau, Gh., Picos, S., Scanteianu, R.A., 2001, The modernization of a thermal plant in Romania by equipping it with desulphuration installations using the

- precipitated calcium carbonate (CaCO_3) as a REA, XXXIII Kraftwerkstechnisches Kolloquium, 23-24 Oktober, Dresden, Germany, (poster session)
28. Scanteianu, N., Simionescu, A., Badarau, Gh., Asandului, M., Alexandru, M., 2002, The establishment of an appropriate research method of optimum functioning of installations and compounds of district heating, XXXIV Kraftwerkstechnisches Kolloquium, 24-25 September, World Trade Center, Dresden, Germany, (poster session), pp.165-168
29. Badarau, Gh., Simionescu, A., Scanteianu, N., Raileanu, T., 2002, Diagnosis method for heat pipe heat recovery systems used in district heating, XXXIV Kraftwerkstechnisches Kolloquium, 24-25 September, World Trade Center, Dresden, Germany, (poster session), pp.189-192
30. Badarau, Gh., Simionescu, A., Ionita, I., 2003, Recuperatoarele de caldura cu tuburi termice o posibila solutie impusa de necesitatea dezvoltarii durabile in industria metalurgica, Conferinta nationala de tehnologii si materiale avansate TMA 2003, pp. 397-399, Galati.
31. Ionita, I., Stefan, M., Badarau, Gh., Mantu, M., 2003, Tehnologie moderna de obtinere prin turnare a lingotierelor invers conice cu sectiune dreptunghiulara, fara fund, in vederea cresterii semnificative a durabilitatii in exploatare, Conferinta nationala de tehnologii si materiale avansate TMA 2003, pp. 390-396, Galati.
32. Badaru, Gh., Scanteianu, N., Simionescu, A., Stefan, M., Alexandru, M., 2003, Analogical modeling of thermal fields for the 330MW steam turbines from Romania, XXXV Kraftwerkstechnisches Kolloquium, 24-25 September, Dresden, Germany, (poster session)
33. Scanteianu, N., Simionescu, A., Badarau, Gh., Galusca, D.G., Raileanu, T., Ciocan, M., 2003, researches concerning the assimilation of a steel destined for the construction of turbine runners, XXXV Kraftwerkstechnisches Kolloquium, 24-25 September, Dresden, Germany, (poster session)
34. Alexandru, M., Badarau, Gh., Picos, S. M., 2006, The European Energetic Reality. Specific Problems of the New Member States or in Course of adhesion at the EU, 38 Kraftwerkstechnisches Kolloquium, 24-25 Oktober, Dresden, Germany
35. Dima, A., Chirila, E., Badarau, Gh., 1993, Organizarea activitatilor de cercetare stiintifica in domeniul constructiei si exploatarii utilajelor tehnologice, Buletinul primului colocviu national tehnic interdisciplinar, Braila, 22-24 aprilie, pp. 179-183
36. Dima, A., Chirila, E., Badarau, Gh., 1993, consideratii privind conducerea asistata de calculator a proceselor de incalzire, Buletinul primului colocviu national tehnic interdisciplinar, Braila, 22-24 aprilie, pp. 184-187
37. Munteanu, C., Rusu, I., Badarau, Gh., Jianu, A.D., 1996, Study of the lectrical variation with temperature in metallic amorphous ribbons from $\text{Fe}_{37,5}\text{Ni}_{32,5}\text{Cr}_5\text{Co}_x\text{B}_{15}\text{Si}_{10}$, FEMS Abstracts, European Conference Junior Euromat'96, 26-30 august, Lausanne, Elvetia.
38. Dima, A., Minea, A.A., Dima, A.M., Badarau, Gh., Vizureanu, P., 1997, Considerations concerning the materials designing, Program & Abstracts, The 8th. Istrael Materials Engineering Conference – IMEC VIII, Ben Gurion University of the Negev, Beer-Sheva, Israel, Israel, 16-17 aprilie, p.146.
39. Rusu, I., Dima, A., Munteanu, C., Badarau, Gh., 2001, Studies concerning the use of vortex effect in aircraft industry, 6th. International conference, Measurement and Control in Complex Systems (MCCS-2001), Vinita, Ucraina, 8-12 Oct., Abstracts, p.219
40. Badarau, Gh., Dima, A., Simionescu, A., Nanescu, V., Considerations concerning the working fluid in gravitational heat pipe, 6th. International conference, Measurement and Control in Complex Systems (MCCS-2001), Vinita, Ucraina, 8-12 Oct., Abstracts, p. 221
41. Dima, A., Susan, M., Badarau, Gh., Bejinariu, C., Susan, Mihaela, Consideratii privind frecarea de contact metal scula la tragerea metalelor cu vibratii ultraacustice (sistem UVD)/ Considerations concerning the metal tool contact friction at the metals drawing with ultrasonic vibrations (U.V.D. system), Conferinta nationala de metalurgie si stiinta

materialelor, CNMSM 2001, Proceedings, 20-21, septembrie, Bucuresti, pp.484-488, ISBN 973-652-389-6

H. Invenții.

1. Raileanu, T., Hopulele, I., Florescu, A., Comaneci, R., Bejinariu, C., Susan, M., Vizureanu, P., Badarau, Gh., Grancea, V., 1996, Metoda si aparat de masurare continua si reglare automata a umiditatii amestecurilor de formare, Cerere de brevet de inventie nr. 0/1367 din 05.07.96.

I. Contracte de cercetare.

1. Studii si cercetari privind dimensionarea constructive functionala si proiectarea tehnologiilor asistate de calculator a utilajelor de incalzire si topire utilizate in metalurgia secundara pentru obtinerea de noi materiale, Grant anual de tip A., C.N.C.S.U. contract nr. 5002/1995
2. Studii si cercetari privind dimensionarea constructive functionala si proiectarea tehnologiilor asistate de calculator a utilajelor de incalzire si topire utilizate in metalurgia secundara pentru obtinerea de noi materiale, Grant anual de tip A, C.N.C.S.U. contract nr. 6002/1996
3. Studii si cercetari privind dimensionarea constructive functionala si proiectarea tehnologiilor asistate de calculator a utilajelor de incalzire si topire utilizate in metalurgia secundara pentru obtinerea de noi materiale, Grant anual de tip A, C.N.C.S.U. contract nr. 7002/1997
4. Modernizarea sistemelor adaptive de racire folosind tehnici avansate de procesare si control neuro-fuzzy, Grant anual de tip A., C.N.C.S.U. tema B46/2000.
5. Modernizarea sistemelor adaptive de racire folosind tehnici avansate de procesare si control neuro-fuzzy, Grant anual de tip A., C.N.C.S.U. tema A16/2001.
6. Cercetari privind obtinerea tevilor cu pereti subtiri prin tragere la rece cu activarea ultraacustica a tijeii port dop si posibilitatea implementarii noii tehnologii in industria tevilor”, Orizont 2000: 11.1.2. Contract nr. 1274/1996 “
7. Studii si cercetari privind imbunatatirea constructiv- functionala a cuptoarelor electrice de tratament termic si de topire asistate de calculator, utilizate in metalurgia secundara, grant de tip A., CNCSU nr. 7002-1997.
8. Tehnologii moderne de mare eficienta economica pentru obtinerea tevilor cu pereti subtiri si a cablurilor cu izolatie minerala pentru termocupluri in tub metallic, din oteluri inoxidabile, prin tragere in camp ultrasonor, Relansin/subprogram 3, Contract nr. 905/2000.
9. Tehnologie modernă pentru obținerea piulițelor olandeze din oțel prin extrudare indirectă la rece, Contract 2136, Program Relansin, 2004
10. Straturi tip barieră termică pentru pistoanele motoarelor cu ardere internă, Contract CEEX 7, 2005
11. Cercetări privind realizarea noii tehnologii de obținere a sculelor de deformare plastică la rece tip ștanțe, matrițe, poansoane, dornuri de tragere, scule de laminare la rece – extrudare și organelor de mașini supuse la uzare tip tije, axe, arbori, supape de presiune, nucleu pivot, prin borocarbonizare rapidă controlată electrotermic, Contract CEEX 8, 2005
12. O noua tehnologie de productie pentru procesarea firelor metalice de inalta rezistenta mecanica, cu structura modificata pana la nivelul nano, prin trefilare in camp ultrasonor, Grant CNCSIS, nr. 63 GR, 2006
13. Sisteme expert pentru comanda sistemelor termice, CEEX 171, 2006
14. Sistem tehnologic performant pentru tragerea tevilor din oteluri inoxidabile cu vibratii ultrasonice, Contact CEEX 293, 2006

15. Sistem automat pentru obtinerea piulitelor olandeze din otel prin extrudare indirecta la rece, Contract CEEEX 191, 2006
16. Materiale multifunctionale cu granulatie ultrafina / nanometrica obtinuta prin deformare severa, Contract CEEEX 193, 2006
17. Dezvoltarea de noi concepte privind sinteza de materiale avansate în câmp electromagnetic prin cvd., Contract CEEEX nr. 135, 2006