

## LISTA LUCRĂRILOR ELABORATE ȘI PUBLICATE

Teza de doctorat	
<p><b>Vernica Sorin-Gabriel, 2011</b>, „CONTRIBUȚII LA OPTIMIZAREA PARAMETRILOR ȘI REGIMURILOR DE FUNCȚIONARE A UNEI INSTALAȚII DE TURBINĂ CU GAZE”, Coordonator științific, Prof.dr.ing. Tudor SAJIN, Universitatea „Vasile Alecsandri” din Bacău, Facultatea de Inginerie.</p> <ul style="list-style-type: none"> <li>- susținere publică la Universitatea „Vasile Alecsandri” din Bacău, în 21.10.2011;</li> <li>- în baza Ordinului Ministrului Educației, Cercetării, Tineretului și Sportului, nr. 6697 din 21.12.2011 a fost emisă diploma de doctor Seria H, Nr. 0004710 / 28.03.2012, în Domeniul Inginerie Mecanică.</li> </ul>	
Brevete de invenție	
1.	<b>Vernica Sorin-Gabriel</b> , Sajin Tudor, Nedelcu Dragoș Iulian, Bîrsan Cătălin, Ostahie Constantin Narcis, Aniței Florin, Mărian Marius Gheorghe – „Instalație combinată de turbine cu gaze și cu abur”, Brevet de invenție nr. 126050/30.10.2013, Cl. Int. <sup>7</sup> F01K 23/10, F01K 25/10, F17C 9/04, OSIM Romania.
2.	Bîrsan Cătălin, Sajin Tudor, Mărian Marius Gheorghe, Nedelcu Dragoș Iulian, Ostahie Constantin Narcis, <b>Vernica Sorin-Gabriel</b> , Aniței Florin – „Generator de ozon”, Brevet de invenție nr. 125845/30.10.2012, Cl. Int. <sup>7</sup> C01B 13/11, H01T 19/00, H01T 19/04, B01J 19/08, OSIM Romania.
3.	Mărian Marius Gheorghe, Sajin Tudor, Ostahie Constantin Narcis, <b>Vernica Sorin-Gabriel</b> , Aniței Florin, Bîrsan Cătălin, Nedelcu Dragoș Iulian – „Microcentrală hidroelectrică”, Brevet de invenție nr. 125723/30.04.2013, Cl. Int. <sup>7</sup> E02B 9/02, OSIM Romania.
4.	Nedelcu Dragoș Iulian, Sajin Tudor, <b>Vernica Sorin-Gabriel</b> , Aniței Florin, Mărian Marius Gheorghe, Bîrsan Cătălin, Ostahie Constantin Narcis – „Instalație pentru conversia energiei valurilor”, Brevet de invenție nr. 125676/28.06.2013, Cl. Int. <sup>7</sup> F03B 13/12, OSIM Romania.
5.	Ostahie Constantin Narcis, Sajin Tudor, Aniței Florin, Mărian Marius Gheorghe, Nedelcu Dragoș Iulian, <b>Vernica Sorin-Gabriel</b> , Bîrsan Cătălin – „Electrofiltru pentru lichide dielectrice”, Brevet de invenție nr. 125825/30.08.2013, Cl. Int. <sup>7</sup> B03C 5/00, OSIM Romania.
6.	Bîrsan Cătălin, Sajin Tudor, Aniței Florin, Mărian Marius Gheorghe, Nedelcu Dragoș Iulian, Ostahie Constantin Narcis, <b>Vernica Sorin-Gabriel</b> – „Generator de ozon”, Brevet de invenție nr. 125844/30.03.2016, Cl. Int. <sup>7</sup> C01B 13/11, OSIM Romania.
7.	Ostahie Constantin Narcis, Sajin Tudor, Morgan Hywel, Nedelcu Dragoș Iulian, Bîrsan

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	Cătălin, <b>Vernica Sorin-Gabriel</b> , Mărian Marius Gheorghe – „Electroseparator de particule din lichide dielectrice”, Brevet de invenție nr. 127876/30.08.2016, Cl. Int. <sup>7</sup> B03C 5/02, OSIM Romania.
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Cărți și capitole în cărți	
<b>1.</b>	<b>Vernica Sorin-Gabriel</b> , Sajin Tudor – „Contribuții la optimizarea parametrilor și regimurilor de funcționare a unei instalații de turbine cu gaze. Rezultate numerice”, Simpozion de comunicări științifice pentru diseminarea rezultatelor obținute de doctoranzi în cadrul programului doctoral „Burse Doctorale – O Investiție în Inteligență” (BRAIN) POSDRU/6/1.5/S/9, Volum: Proiectul BRAIN – rezultate obținute la Universitatea „Vasile Alecsandri” din Bacău. Februarie 2011, Editura Alma Mater Bacău, Universitatea „Vasile Alecsandri” din Bacău, Școala de Studii Doctorale, 28 februarie, Bacău, Romania, 2011, ISBN 978-606-527-111-1, pag. 151-165.
<b>2.</b>	Sajin Tudor, Buzdugă Ștefania Roxana, <b>Vernica Sorin-Gabriel</b> – „Termoeconomie: tehnici de simulare și de studiu experimental: (ghid practic și îndrumar de laborator la disciplina Termoeconomie)”, Editura Alma Mater, Bacău, 2012, ISBN 978-606-527-198-2, pag. 154.
<b>3.</b>	<b>Vernica Sorin-Gabriel</b> , Hazi Gheorghe – „Rețele electrice – Lucrări practice”, Editura Pim, Iași, 2013, ISBN 978-606-13-1451-5, pag. 190.
<b>4.</b>	Hazi Aneta, Grigore Roxana-Margareta, <b>Vernica Sorin-Gabriel</b> – „Echipamente și instalații termice. Aplicații”, Editura Pim, Iași, 2015, ISBN 978-606-13-2489-7, pag. 174.
<b>5.</b>	Grigore Roxana-Margareta, <b>Vernica Sorin-Gabriel</b> – „Surse regenerabile aplicate în clădiri – Îndrumar pentru lucrări practice”, Editura Alma Mater, Bacău, 2019, ISBN 978-606-527-634-5, pag. 79.
<b>6.</b>	<b>Vernica Sorin-Gabriel</b> , Grigore Roxana-Margareta – „Producerea energiei electrice și termice. Aplicații”, Editura Alma Mater, Bacău, 2021, ISBN 978-606-527-497-6, pag. 72.

Articole / studii publicate în reviste de specialitate și volume ale unor manifestări științifice	
Articole publicate în reviste indexate ISI	
<b>1.</b>	Hazi Aneta, Hazi Gheorghe, Grigore Roxana, <b>Vernica Sorin-Gabriel</b> – „Opportunity to Use PVT Systems for Water Heating in Industry”, Applied Thermal Engineering, Elsevier, Volume 63, Issue 1, 2014, ISSN 1359-4311, pp. 151-157, <b>DOI:</b> <a href="http://dx.doi.org/10.1016/j.applthermaleng.2013.11.010">http://dx.doi.org/10.1016/j.applthermaleng.2013.11.010</a> , Article ISI Factor de Impact 4,026.
Articole publicate în reviste proceedings ISI	
<b>1.</b>	Melli Roberto, Verda Vittorio, <b>Vernica Sorin-Gabriel</b> – „A Thermoeconomic-Artificial Intelligence Combined Approach to the Diagnosis of Energy Systems”,

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	Proceedings of IMECE 2011: ASME International Mechanical Engineering Congress & Exposition, Volume 4: Energy Systems Analysis, Thermodynamics and Sustainability, 11-17 November, Denver, Colorado, USA, 2011, Paper no. IMECE2011 – 65396, ISBN 978-0-7918-5490-7, pp. 247-254, DOI: <a href="http://dx.doi.org/10.1115/IMECE2011-65396">http://dx.doi.org/10.1115/IMECE2011-65396</a> , Proceedings Paper ISI.
2.	<b>Vernica Sorin-Gabriel</b> , Verda Vittorio, Sajin Tudor, Bîrsan Cătălin – „Exergetic Analysis of Gas Turbine Plant with External Heat Recovery”, Proceedings of 15 <sup>th</sup> International Conference Modern Technologies, Quality and Innovation – New face of TMCR (ModTech 2011), 25-27 May, Vadul lui Vodă – Chișinău, Republic of Moldova, 2011, ISSN 2069-6736, pp. 1141-1144, Proceedings Paper ISI.
3.	<b>Vernica Sorin-Gabriel</b> , Sajin Tudor, Bîrsan Cătălin – „The Exergetic Optimization of the Experimental Regimes for a Gas Turbine Plant”, Proceedings of 16 <sup>th</sup> International Conference Modern Technologies, Quality and Innovation – New face of TMCR (ModTech 2012), 24-26 May, Sinaia, Romania, 2012, ISSN 2069-6736, pp. 1029-1032, Proceedings Paper ISI.
4.	Bîrsan Cătălin, Sajin Tudor, <b>Vernica Sorin-Gabriel</b> – „Modeling and Experimental Analysis of Fluid Motion in a New Type of Plasma Generator”, Proceedings of 16 <sup>th</sup> International Conference Modern Technologies, Quality and Innovation – New face of TMCR (ModTech 2012), 24-26 May, Sinaia, Romania, 2012, ISSN 2069-6736, pp. 109-112, Proceedings Paper ISI.
5.	Grigore Roxana, Hazi Aneta, Hazi Gheorghe, <b>Vernica Sorin-Gabriel</b> – „Some Considerations About Maintenance Optimization of Wind Power Turbines”, Proceedings of 12th International Conference on Environment and Electrical Engineering (EEEIC 2013), 5-8 May, Wroclaw, Poland, 2013, ISBN 978-1-4673-3060-2, pp. 186-190. Indexat IEEE Xplore, DOI: <a href="http://dx.doi.org/10.1109/EEEIC.2013.6549614">http://dx.doi.org/10.1109/EEEIC.2013.6549614</a> , Proceedings Paper ISI.
<b>Articole publicate în reviste indexate BDI</b>	
1.	Hazi Gheorghe, Hazi Aneta, Manoliu Cristina, <b>Vernica Sorin-Gabriel</b> – „Complex Asymmetric Regimes in the 110kV Network Due to RAR Automation”, Modelling and Optimization in the Machines Building Field, Volume 1, MOCM 14, Editura ALMA MATER Bacău, 2008, ISSN 1224-7480, pp. 147-152.
2.	Hazi Aneta, Hazi Gheorghe, <b>Vernica Sorin-Gabriel</b> , Goga Florin – „The Energetic and Exergetic Performance of Gas Turbine Cogeneration System”, Modelling and Optimization in the Machines Building Field, Volume 4, MOCM 14, Editura ALMA MATER Bacău, 2008, ISSN 1224-7480, pp. 53-58.
3.	<b>Vernica Sorin-Gabriel</b> , Sajin Tudor – „A New Solution to Increase the Performances of Hybrid Gas and Steam Turbines Plants”, Bulletin of the Transilvania University of Brașov, Volume 2(51), Series I, Published by Transilvania University Press Brașov, Romania, 2009, ISSN 2065-2119, pp. 449-455.
4.	<b>Vernica Sorin-Gabriel</b> , Sajin Tudor, Hazi Aneta, Bîrsan Cătălin – „Thermodynamic Analysis of Gas Turbine Plant with External Heat Recovery”, Buletinul Institutului Politehnic din Iași, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași,

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	Tomul LVI(LX) Fasc. 4B, Secția Construcției de Mașini, Editura POLITEHNIUM, 2010, ISSN 1011-2855, pp. 309-318.
<b>5.</b>	<b>Vernica Sorin-Gabriel</b> , Sajin Tudor – „Dimensional Analysis of the Processes in Gas Turbine Power Plant”, Buletinul Institutului Politehnic din Iași, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Tomul LVI(LX) Fasc. 4B, Secția Construcției de Mașini, Editura POLITEHNIUM, 2010, ISSN 1011-2855, pp. 319-326.
<b>6.</b>	Bîrsan Cătălin, Sajin Tudor, <b>Vernica Sorin-Gabriel</b> – „Electrochemical Reaction and Mechanisms Generating Ozone”, Buletinul Institutului Politehnic din Iași, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Tomul LVI(LX) Fasc. 4B, Secția Construcției de Mașini, Editura POLITEHNIUM, 2010, ISSN 1011-2855, pp. 147-154.
<b>7.</b>	Hazi Aneta, Hazi Gheorghe, Grigore Roxana, <b>Vernica Sorin-Gabriel</b> – „Sensitivity of Reliability Indicator for the Gas Turbine Cogeneration Power Plant”, Annals of DAAAM for 2010 & Proceedings of the 21 <sup>th</sup> International DAAAM Symposium, 20-23 <sup>rd</sup> October, Zadar, Croatia, 2010, ISBN 978-3-901509-73-5, ISSN 1726-9679, pp. 0633-0634, Published by DAAAM International Vienna, Austria.
<b>8.</b>	<b>Vernica Sorin-Gabriel</b> , Sajin Tudor – „Exergoeconomic Analysis of Gas Turbine Plant with External Heat Recovery”, Proceedings of the International Conference on Industrial Power Engineering. The 8-th Edition CIEI 2011, April 14-15, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2011, ISSN 2069-9905, pp. 148-153.
<b>9.</b>	<b>Vernica Sorin-Gabriel</b> , Sajin Tudor – „Exergoeconomic Optimization of Gas Turbine Plant with External Heat Recovery”, Proceedings of the International Conference on Industrial Power Engineering. The 8-th Edition CIEI 2011, April 14-15, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2011, ISSN 2069-9905, pp. 154-158.
<b>10.</b>	Hazi Aneta, Hazi Gheorghe, Grigore Roxana, <b>Vernica Sorin-Gabriel</b> – „Effects of Deterioration Equipment Reliability in a Gas Turbine Cogeneration Power Plant”, Proceedings of the 2011 10th International Conference on Environment and Electrical Engineering (EEEIC 2011), 8-11 May, Rome, Italy, 2011, ISBN 978-1-4244-8779-0, pp. 78-81, IEEE Catalog Number: CFP1151I-CDR. Indexat IEEE Xplore, DOI: <a href="http://dx.doi.org/10.1109/EEEIC.2011.5874844">http://dx.doi.org/10.1109/EEEIC.2011.5874844</a> .
<b>11.</b>	<b>Vernica Sorin-Gabriel</b> , Hazi Gheorghe, Hazi Aneta – „Experimental Determination of Static Characteristics of the Resistive and Lighting Loads”, Proceedings of Francophone Multidisciplinary Colloquium on Materials, Environment and Electronics, Le troisième colloque francophone PLUridisciplinaire sur les Matériaux, l’Environnement et l’Electronique (PLUMEE 2013), 22 Mai – 25 Mai, Bacau, Roumanie, 2013, ISSN 2343-9092, pp. 295-300.
<b>12.</b>	Hazi Aneta, Hazi Gheorghe, <b>Vernica Sorin-Gabriel</b> – „Power Transformer in Substations – Heat Sourse”, Proceedings of Francophone Multidisciplinary Colloquium on Materials, Environment and Electronics, Le troisième colloque francophone PLUridisciplinaire sur les Matériaux, l’Environnement et l’Electronique (PLUMEE 2013), 22 Mai – 25 Mai, Bacau, Roumanie, 2013, ISSN 2343-9092, pp. 98-101.

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<b>13.</b>	Hazi Gheorghe, Hazi Aneta, <b>Vernica Sorin-Gabriel</b> – „About Selectivity of Numerical Protections Against Earth Faults in Medium Voltage Networks Grounded with Petersen Coil”, Proceedings of Francophone Multidisciplinary Colloquium on Materials, Environment and Electronics, Le troisième colloque francophone PLUridisciplinaire sur les Matériaux, l’Environnement et l’Electronique (PLUMEE 2013), 22 Mai – 25 Mai, Bacau, Roumanie, 2013, ISSN 2343-9092, pp. 102-107.
<b>14.</b>	Hazi Gheorghe, Hazi Aneta, <b>Vernica Sorin-Gabriel</b> – „Calculation of Fault Currents in Power Distribution Networks Grounded with Petersen Coil”, Proceedings of Francophone Multidisciplinary Colloquium on Materials, Environment and Electronics, Le troisième colloque francophone PLUridisciplinaire sur les Matériaux, l’Environnement et l’Electronique (PLUMEE 2013), 22 Mai – 25 Mai, Bacau, Roumanie, 2013, ISSN 2343-9092, pp. 108-113.
<b>15.</b>	Hazi Aneta, Hazi Gheorghe, <b>Vernica Sorin-Gabriel</b> – „Solution Heat Recovery from the Power Transformer Oil”, International Symposium on Electrical Engineering and Energy Converters, ELS 2013 – 5th Edition, 26-28 September, Suceava, Romania, 2013, Buletinul AGIR nr. 4/2013, octombrie-decembrie, ISSN-L 1224-7928, Online: ISSN 2247-3548, pp. 123-127.
<b>16.</b>	Hazi Gheorghe, Hazi Aneta, <b>Vernica Sorin-Gabriel</b> – „Using the Numerical Protections for Medium Voltage Power Lines Grounded with Petersen Coil”, International Symposium on Electrical Engineering and Energy Converters, ELS 2013 – 5th Edition, 26-28 September, Suceava, Romania, 2013, Buletinul AGIR nr. 4/2013, octombrie-decembrie, ISSN-L 1224-7928, Online: ISSN 2247-3548, pp. 129-134.
<b>17.</b>	Hazi Aneta, Hazi Gheorghe, <b>Vernica Sorin-Gabriel</b> – „Opportunity Study for Heat Recovery from Large Power Transformers in Substations”, 5 <sup>th</sup> International Conference Thermal Engines and Environmental Engineering – METIME 2013, 1-2 November, Galați, Romania, 2013, Revista Termotehnica Supliment 1/2013, ISSN-L 1222-4057, Online: ISSN 2247-1871, pp. 9-12.
<b>18.</b>	Hazi Gheorghe, Hazi Aneta, <b>Vernica Sorin-Gabriel</b> – „Experimental Study on Heating of Uninsulated Electrical Conductors”, 5 <sup>th</sup> International Conference Thermal Engines and Environmental Engineering – METIME 2013, 1-2 November, Galați, Romania, 2013, Revista Termotehnica Supliment 1/2013, ISSN-L 1222-4057, Online: ISSN 2247-1871, pp. 79-83.
<b>19.</b>	Hazi Aneta, Hazi Gheorghe, <b>Vernica Sorin-Gabriel</b> – „Influence of Outdoor Temperature on Air Conditioning System”, Proceedings of the International Conference on Industrial Power Engineering. The 9-th Edition CIEI 2014, May 22-24, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2014, ISSN 2069-9905, pp. 121-126.
<b>20.</b>	Hazi Aneta, Hazi Gheorghe, <b>Vernica Sorin-Gabriel</b> – „Improving Lighting Efficiency in the Substation”, Proceedings of the International Conference on Industrial Power Engineering. The 9-th Edition CIEI 2014, May 22-24, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2014, ISSN 2069-9905, pp. 127-132.
<b>21.</b>	Hazi Gheorghe, Hazi Aneta, <b>Vernica Sorin-Gabriel</b> – „Configuring the Overload Protection for the Power Transformers”, Proceedings of the International Conference

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	on Industrial Power Engineering. The 9-th Edition CIEI 2014, May 22-24, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2014, ISSN 2069-9905, pp. 133-138.
22.	Hazi Gheorghe, Hazi Aneta, <b>Vernica Sorin-Gabriel</b> – „The Efficiency Placement of the Capacitor in Industrial Power Systems”, Proceedings of the International Conference on Industrial Power Engineering. The 9-th Edition CIEI 2014, May 22-24, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2014, ISSN 2069-9905, pp. 139-143.
23.	<b>Vernica Sorin-Gabriel</b> , Hazi Gheorghe, Hazi Aneta – „Experimental Determination of Static Characteristics of a Motor-Generator Group and a Rectifier”, Proceedings of the International Conference on Industrial Power Engineering. The 9-th Edition CIEI 2014, May 22-24, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2014, ISSN 2069-9905, pp. 250-255.
24.	<b>Vernica Sorin-Gabriel</b> , Hazi Aneta, Hazi Gheorghe – „Experimental Determination of the Heat Recovery Boiler Effectiveness of a Gas Turbine Plant”, Applied Mechanics and Materials, Trans Tech Publications, Switzerland, Volume 659, 2014, ISSN 1662-7482, pp. 503-508, DOI: <a href="http://www.scientific.net/AMM.659.503">http://www.scientific.net/AMM.659.503</a> .
25.	Hazi Gheorghe, Hazi Aneta, <b>Vernica Sorin-Gabriel</b> – „On Modeling the Long Transmission Lines Through Equivalent $\Pi$ Circuits”, Proceedings of Francophone Multidisciplinary Colloquium on Materials, Environment and Electronics, Le Quatrieme colloque francophone PLUridisciplinaire sur les Matériaux, l’Environnement et l’Electronique (PLUMEE 2015), 12 Juin – 15 Juin, Limoges, France, 2015, ISSN 2343-9092, pp. 61-64.
26.	<b>Vernica Sorin-Gabriel</b> , Hazi Aneta, Hazi Gheorghe – „Experimental Analysis of the Gas Turbine Plant with External Heat Recovery”, Proceedings of Francophone Multidisciplinary Colloquium on Materials, Environment and Electronics, Le Quatrieme colloque francophone PLUridisciplinaire sur les Matériaux, l’Environnement et l’Electronique (PLUMEE 2015), 12 Juin – 15 Juin, Limoges, France, 2015, ISSN 2343-9092, pp. 145-148.
27.	Grigore Roxana, Sajin Tudor, Capăt Cornelia, <b>Vernica Sorin-Gabriel</b> – „Validated Mathematical Model of Gas Emissions from Combustion Installations”, Proceedings of the 10 <sup>th</sup> International Conference on Industrial Power Engineering CIEI 2016, June 2-4, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2016, ISSN 2069-9905, pp. 43-46.
28.	Hazi Aneta, Hazi Gheorghe, <b>Vernica Sorin-Gabriel</b> – „Effects of Pressure Variation on Two-Stage Compression Refrigeration with Heat Recovery”, Proceedings of the 10 <sup>th</sup> International Conference on Industrial Power Engineering CIEI 2016, June 2-4, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2016, ISSN 2069-9905, pp. 47-50.
29.	Hazi Aneta, Hazi Gheorghe, <b>Vernica Sorin-Gabriel</b> – „Heat Recovery Opportunities in a Refrigeration System”, Proceedings of the 10 <sup>th</sup> International Conference on Industrial Power Engineering CIEI 2016, June 2-4, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2016, ISSN 2069-9905, pp. 51-55.



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30.	Hazi Gheorghe, Hazi Aneta, <b>Vernica Sorin-Gabriel</b> – „Configuring Method of the Numerical Protections in the Power Systems”, Proceedings of the 10 <sup>th</sup> International Conference on Industrial Power Engineering CIEI 2016, June 2-4, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2016, ISSN 2069-9905, pp. 56-64.
31.	Sajin Tudor, Grigore Roxana, <b>Vernica Sorin-Gabriel</b> – „Validated Diagram to Determine the Efficiency and the Excess Air Factor in the Combustion Installations of Heating Stations and Rooftops”, Proceedings of the 10 <sup>th</sup> International Conference on Industrial Power Engineering CIEI 2016, June 2-4, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2016, ISSN 2069-9905, pp. 105-110.
32.	Sajin Tudor, Grigore Roxana, <b>Vernica Sorin-Gabriel</b> – „Diagram for Graphical Determination of Efficiency and of Excess Air Factor of Combustion Installation in Function of Measured Values of Oxygen Concentration in the flue Gases and Their Temperature”, Proceedings of the 10 <sup>th</sup> International Conference on Industrial Power Engineering CIEI 2016, June 2-4, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2016, ISSN 2069-9905, pp. 111-116.
33.	<b>Vernica Sorin-Gabriel</b> , Hazi Aneta, Hazi Gheorghe – „Experimental Determination of Thermal and Electrical Efficiencies of Gas Turbine Plant”, Proceedings of the 10 <sup>th</sup> International Conference on Industrial Power Engineering CIEI 2016, June 2-4, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2016, ISSN 2069-9905, pp. 135-138.
34.	Hazi Gheorghe, Hazi Aneta, <b>Vernica Sorin-Gabriel</b> – „Considerations on the Determination of Energy Losses in Environmental Networks”, Proceedings of the 11 <sup>th</sup> International Conference on Industrial Power Engineering CIEI 2018, June 27-29, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2018, ISSN 2069-9905, pp. 5-13.
35.	Hazi Aneta, Hazi Gheorghe, <b>Vernica Sorin-Gabriel</b> – „Improving the Operating Diagram of a Substation”, Proceedings of the 11 <sup>th</sup> International Conference on Industrial Power Engineering CIEI 2018, June 27-29, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2018, ISSN 2069-9905, pp. 14-19.
36.	Grigore Roxana, <b>Vernica Sorin-Gabriel</b> , Puiu-Berizintu Mihai, Iftime Silviu – „Aspects Related to the Utilization of Geothermal Energy for the Production of Electricity in Romania”, Proceedings of the 11 <sup>th</sup> International Conference on Industrial Power Engineering CIEI 2018, June 27-29, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2018, ISSN 2069-9905, pp. 47-52.
37.	<b>Vernica Sorin-Gabriel</b> , Hazi Aneta, Hazi Gheorghe, Grigore Roxana – „Proposals to Improve the Operating Regimes of a Gas Turbine Plant”, Proceedings of the 11 <sup>th</sup> International Conference on Industrial Power Engineering CIEI 2018, June 27-29, Printed by: „ALMA MATER” Publishing House, Bacău, Romania, 2018, ISSN 2069-9905, pp. 43-46.
<b>Articole / studii publicate în volume ale unor manifestări științifice naționale sau internaționale</b>	
1.	Hazi Gheorghe, Hazi Aneta, <b>Vernica Sorin-Gabriel</b> – „New Problems Concerning the

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	Control and the Operation of the Protections in the 110kV Systems”, WEC Regional Energy Forum – FOREN, Reference no. s3-3-en, 15-19 iunie, Neptun, Romania, 2008, ISBN 978-973-720-177-5.
2.	<b>Vernica Sorin-Gabriel</b> , Sajin Tudor - „The Energetic Analyze and Optimization of the Steam Turbine Plant”, 7 <sup>th</sup> National Conference on Industrial Energetics with International Paticipation CNEI 2009, November 5-7, Printed by: Editura ALMA MATER Bacău, 2009, ISBN 978-606-527-050-3, pp. 229-234.
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**Semnătura,**

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