A – teza de doctorat

B – Carti si capitole in carti

B1. H. Andrei (coordonator), C. Flueraşu, Elena Vîrjoghe, Corina Flueraşu, Diana Enescu, Dorina Popovici, Adela Husu, **P. C. Andrei**, G. Preduşcă, E. Diaconu, *Metode numerice, modelări şi simulări în ingineria electrică / Numerical Methods, Modelling and Simulation in Electrical Engineering* - ediţie bilingvă, ed. Electra, Bucureşti, 2011, ISBN: 978-606-507-060-8, 610 pag..

B2. C. Cepişcă, V. Dogaru, L. Stancu, **P. Andrei**, *Operator introducere, validare şi prelucrare date – suport de curs,* ISBN 978-606-8082-03-5, Editura Nouă, Bucureşti, 2009.

B3. Cepişcă, L. Stancu, H. Andrei, I. Nanciu, Co. Cepişcă, V. Dogaru, **P. Andrei**, *Tehlnician în instalaţii electrice – suport de curs,* ISBN 978-606-8082-43-1, Editura Nouă, Bucureşti, 2009.

B4. Andrei, H., Cepişcă, C., Stancu, I., Drăguşin, V., Dogaru, V., Stancu, L., **Andrei, P.**, *Specializare in echipamente automate pentru retele de iluminat,* ISBN 973-8265-46-0, 2005, Editura LVS Crepuscul, 2005.

C – Lucrari indexate ISI/BDI

- Articole în reviste cotate ISI:

Cr1. Kadri, R., Andrei, H**.**, Gaubert, JP., Ivanovici, T., Champenoise, G., **Andrei, P.**, *Modelling Of The Photovoltaic Cell Circuit Parameters For Optimum Connection Model and Real-Time Emulator With Partial Shadow Conditions,* Energy - Elsevier, vol. 42, issue 1, ISSN 0360-5442, pp. 57-67, <u>indexată ISI, factor impact relativ 4,159</u>**,** 2012.

- Articole în reviste cotate BDI:

Cr2. Andrei, P.C., *Current Computation and Sensitivity Analysys in a Device for Determining B-H Relationships***,** The Scientific Bulletin of the Electrical Engineering Faculty, year 14, no.3 (27), ISSN 1843-6188, pp. 31-38, <u>indexat COPERNICUS si CNCSIS B+</u>, 2014.

Cr3. Andrei, H., Cepisca, C., **Andrei, P.**, Vasile, I., Morcovescu, M., *Principle of Minimum Dissipated Power Applied to PV Cells*, The Scientific Bulletin of Electrical Engineering Faculty, year 14, no. 2 (26), ISSN 1843-6188, pp. 5-10, <u>indexat COPERNICUS si CNCSIS B+</u>, 2014.

Cr4. H. Gavrila, Marilena Stanculescu, M. Maricaru, M. Vasilescu, **P. Andrei**, I. F. Hantila, *„In Situ" evaluation of ferromagnetic bodies magnetic characteristics,* Materials Science Forum, vol. 792 (2014), ISSN: 0255-5476, pp 177-182, doi:10.4028/www.scientific.net/MSF.792.177*,* <u>indexat SCOPUS,</u> 2014.

Cr5. Andrei, H**.**, Chicco, G., Grigorescu, S.D., **Andrei, P.,** Mazza, A., Radulescu, S., Vasile, I., *Basics of Linear DC and AC Theory*: *Co-Existance of Minimum Dissipated Power Principle and Maximum Power Transfer Theorem*, The Scientific Bulletin of Electrical Engineering Faculty, year 14, no. 1 (25), ISSN 1843-6188, pp. 11-17, <u>indexat COPERNICUS si CNCSIS B+</u>, 2014.

Cr6. Andrei, H., Cobianu, C., **Andrei, P.C.**, Ivanovici, T., Predusca, G., *Numerical Methods to Evaluate the PV Cells Parameters*, The Scientific Bulletin of Electrical Engineering Faculty, year 12, no. 2 (19), Târgovişte Bibliotheca Publishing House, ISSN 1843-6188, pp. 13-17, <u>indexat Index Copernicus Journal Master List si CNCSIS B+</u>, 2012.

Cr7. **Andrei, P.C.**, *Experimental simulation of the electric and magnetic field induced into human body*, Electrotehnica, Electronica, Automatica – EEA, vol. 60, nr. 2, ISSN 1582-5175, pp. 95-104, <u>indexat CNCSIS B+, Index Copernicus Journal Master List şi Ulrich's Periodical Directory</u>, aprilie-iunie 2012.

Cr8. Andrei, H., **Andrei, P.C.**, Ivanovici, T., Diaconu, E., Stan, Fl. *Mathematical solutions to approximate the PV panels characteristics and parameters,* Buletinul AGIR, anul XVII, nr. 2, ISSN-L 1224-7928, ISSN online 2247-3548, pp. 191-200, <u>indexată CNCSIS B+ şi Index Copernicus Journal Master List</u>, aprilie-iunie 2012.

Cr9. Andrei, H., Marin, Oana, Ghita, M.R., Ivanovici, T., Nicolaescu, Gh., Nastase, L. and **Andrei, P.C.**, *Measurement Data Analysis of Power Quality and Energy Efficiency for Residential Loads Sector*, Lectures Notes in Information Technology-LNIT journal, vol. 13, ISSN 2070-1918, pp. 156-164, <u>indexată INSPEC</u>, 2012.

Cr10. **Andrei, P.C.**, *Simulations results of Life cycle assessment of 30kWp PV System Installed at University Politehnica of Bucharest Romania,* The Scientific Bulletin of Electrical Engineering Faculty, Year 11, No. 3, Târgovişte Bibliotheca Publishing House, ISSN 1843-6188, pp. 45-50, <u>indexată CNCSIS B+ şi Index Copernicus Journal Master List</u>, 2011.

Cr11. Andrei, H.**,** Cepisca, C., Grigorescu, S.D., Ivanovici, T., **Andrei, P.**, *Modelling of the PV Panels Circuit Parameters Using 4-Terminals Equations and Brune's Conditions,* The Scientific Bulletin of Electrical Engineering Faculty, year 10, no. 1 (12), ISSN 1843-6188, pp. 63-67, <u>indexată CNCSIS B+ şi Index Copernicus Journal Master List</u>, 2010.

Cr12. Andrei, H., Spinei, F., **Andrei, P.C.,** *A new Analytical Formulation of the Theorem of maximum Power transfer for large scale DC Circuits,* The Scientific Bulletin of Electrical Engineering Faculty, Year 7, No. 1, Târgovişte Bibliotheca Publishing House, ISSN 1843-6188, pp. 73-76, <u>indexată CNCSIS B+ şi Index Copernicus Journal Master List</u>, 2007.

- Articole la conferinţe internaţionale cu volume indexate ISI:

Cc1. Andrei, H., **Andrei, P.C.** , Mantescu G., *Matrix Formulation of Minimum Absorbed Energy Principle and Nodal Method of Magnetic Circuits Analysis*, Proc. of IEEE-14th International Conference on Optimization of Electrical and Electronic Equipment – OPTIM 2014, 22-24, May, Brasov, ISBN 978-1-4799-5183-8/14, pp. 59-64, <u>indexat ISI Web of Science</u>, 2014.

Cc2. Andrei, H., **Andrei P.C.**, *Matrix Formulations of Minimum Dissipated Power Principles and Nodal Method of Circuits Analysis*, IEEE-Advanced Topics in Electrical

Engineering - ATEE, 23-25 May, 2013, Bucharest, Romania, paper ELCI 1, ISBN 978-1-4673-5978-9, IEEE Catalog number CFP 1314P-CDR, <u>indexat ISI Web of Science</u>, 2013.

Cc3. Diaconu, E. Andrei, H**.,** Predusca, G., Pencioiu, P., Ursu, V., Hanek, M. **Andrei P.C.**, Constantinescu, Luminita, *Modelling the charging characteristics of storage batteries for PV power systems*, Proc. of IEEE - Int. Conf. Electronics, Computers and Artificial Intelligence – ECAI, 27-29 June, 2013, Pitesti, Romania, vol. 5, no. 1/2013, ISSN 1843-2115, pp. 15-21, IEEE Catalog number CFP 1327U-ART, ISBN 978-1-4673-4937-6, <u>indexat ISI Web of Science</u>, 2013.

Cc4. Andrei H., Spinei, F., Cepisca, C., **Andrei, P.,** Vasile, N.. *Modelling of the Power Factor for AC Linear Circuits under Non-sinusoidal Conditions,* Proceedings of 15th IEEE Mediterranean Electromechanical Conference-MELECON, April 26-28, 2010, Valetta, Malta, IEEE Catalog Number:CFP10MEL-CDR, ISBN 978-1-4244-5794-6, pp. 353-358, <u>indexat ISI Web of Science</u>, 2010.

Cc5. Andrei H**.,** Spinei, F., **Andrei, P.**, Rohde, U., Silaghi, M., Silaghi, H., *Evaluation of Hilbert Space Techniques and Lagrange's Method for the Analysis of Dissipated Power in DC Circuits,* Proceedings of IEEE-European Conference on Circuit Theory and Design-ECCTD'09, August 23-27, 2009, Antalya, Turcia, IEEE Catalog Number:CFP09ECC-CDR, ISBN 978-1-4244-3896-9, pp. 862-865, Library of Congress: 2009900553, <u>indexat ISI Web of Science</u>, 2009.

Cc6. Andrei, H., Cepisca, C., Dogaru, V., Ivanovici, T., Stancu, L., **Andrei, P.C.,** *Measurements Analysis of Advanced System for Reducing the Energy Consumption of Public Street Lighting Systems,* Proceedings of IEEE-PowerTech, Bucharest, June 26-July 2, 2009, IEEE Catalog number: CFP09815-CDR, ISBN 987-1-4244-2235-7, pp. 684-690, Library of Congress: 2008901840, <u>indexat ISI Web of Science,</u> 2009.

Cc7. H. Andrei, F. Spinei, I. Caciula, **P.C.Andrei,** *Systematic analysis of the electric power and magnetic energy for linear electric and magnetic circuits with modifiable parameters,* IEEE-EUROCON2009, St. Petersburg, May 18-23, 2009, ISBN 978-1-4244-3861-7, pp.216-223, IEEE catalog Number CFP09EUR-CDR, <u>indexat ISI Web of Science</u>, 2009.

Cc8. Andrei, H., Cepisca, C., Jula, N., **Andrei, P.C.**, Stancu, L., *Contributions Concerning the Sensitivity Analysis of the Analogue Two-Ports for Communications,* Proceedings of the European Computing Conference (ECC'09) & 3-rd International Conference on Computational Intelligence (CI'09), Tbilisi, Georgia, June 26-28, 2009, published by WSEAS Press, ISSN 1790-5117, ISBN 978-960-474-088-8, pp.197-202, <u>indexat ISI Web of Science</u>, 2009.

Cc9. Andrei, H., F. Spinei, C. Cepisca, I. Caciula, **P.C. Andrei,** *The Systematic Analysis of the Absorbed Power in D.C. Networks with Modifiable Parameters Using a New Mathematic Algorithm,* IEEE-AQTR Conference, May, 22-25, Cluj Napoca, 2008, IEEExplore catalog number CFP08AQT-PRT, ISBN 978-1-4244-2576-1, pp. 121-124 <u>indexat ISI Web of Science</u>, 2008.

Cc10. Andrei, H., Cepisca, G., Grigorescu, S.D., Spinei, F., Caciula, I., **Andrei, P.C.** *The Minimum Dissipated Active and Reactive Power: an Equilibrium State of the Circuits under Nonsinusoidal Conditions,* Proceedings of the 7th WSEAS International Conference on Simulation, Modelling and Optimization – SMO'07,   Beijing, China, September 15-17, 2007, ISSN 1790-5117,   ISBN 978-960-6766-07-7, pp. 284-288, <u>indexat ISI Web of Science</u>, 2007.

- Articole la conferințe internaționale cu volume indexate BDI:

Cc11. Maricaru, M.; Marinescu, S.; Stanculescu, Marilena; **Andrei, P.C.**; Hantila, F. I., *Equipment for the magnetization characteristic evaluation of a ferromagnetic body*, 2015 13th International Conference on Engineering of Modern Electric Systems (EMES), pp.1,4, 11-12 June 2015, ISBN 978-1-4799-7650-8, IEEE Catalog Number: CFP15A89-ART, doi:10.1109/EMES.2015.7158419, indexat IEEEExplore, 2015.

Cc12. P. C. Andrei, I. Caciula, Marilena Stanculescu, M. Vasilescu, *FEM Analysis of the Magnetic Field for B-H Relationship Evaluation*, Proceedings Volume of International Symposium on Fundamentals of Electrical Engineering-ISFEE 2014, 28-29 noiembrie 2014, Bucuresti, Cat. No.:CFP1493Y-ART, ISBN: 978-1-4799-6820-6, doi: 10.1109/ISFEE.2014.7050592, indexat IEEEExplore, 2015.

Cc13. Andrei, H., **Andrei, P.C**., Oprea, G., Botea, B., *Basic equations of linear electric and magnetic circuits in quasi-stationary state based on principle of minimum absorbed power and energy*, Proceedings Volume of International Symposium on Fundamentals of Electrical Engineering-ISFEE 2014, 28-29 noiembrie 2014, Bucuresti, Cat. No.:CFP1493Y-ART, ISBN: 978-1-4799-6820-6, doi: 10.1109/ISFEE.2014.7050536, indexat IEEEExplore, 2015.

Cc14. Andrei, H., Nicolaescu, G., Radulescu, St., **Andrei, P.C**. *New Approach of PV Cell Efficiency*, IEEE- International Conference on Environmental and Electrical Engineering - EEEIC, 5-8 May, 2013, Wroclaw, Poland, paper 44, ISBN 978-1-4673-3058-9, Catalog number CFP 13511-CDR, indexat IEEEExplore, 2013.

Cc15. Andrei, H., Ivanovici, T., **Andrei, P.C.**, Diaconu, E., Ghita, M.R., Marin, O., *Analysis and Experimental Verification of the Sensitivity of the PV Cell Model Parameters*, IEEE-International Workshop on Symbolic and Numerical Methods, Modeling and Applications to Circuit Design - SMACD, 19-21 September, 2012, Sevilla, Spain, ISBN 978-1-4673-0684-3, pp. 129-132, Catalog number CFP 12105-CDR, indexat IEEEExplore, 2012.

Cc16. Andrei, H., Ivanovici, T., Predusca, G., **Andrei, P.C**., Diaconu, E. *Irradiance Sensitivity of the Model Parameters of Photovoltaic Cells*, Proceedings of IEEE-13th International Conference on Optimization of Electrical and Electronic Equipment – OPTIM 2012, 24-26, May, Brasov, ISBN 978-1-4673-1653-8/12, pp. 893-898, indexat IEEEExplore si INSPEC, 2012.

Cc17. Andrei, H., Ivanovici, T., Predusca, G., **Andrei, P.C**., Diaconu, E. *Curve Fitting Method for Modeling and Analysis of Photovoltaic Cells Characteristics*, Proceedings of IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics – AQTR 2012 (THETA 18), 24-27, May, Cluj Napoca, IEEE Catalog Number CFP12AQT-CDR, ISBN 978-1-4673-0703-1, indexat SCOPUS, 2012.

Cc18. Andrei, H**,** Ivanovici, T., Ghita, M.R., Cepisca, C., **Andrei, P.C.**, *Analysis of the PV Panels Connections Using the Four-Terminal Parameters Equations,* Proceedings of IEEE-PowerTech, Trondheim, June 19-24, 2011, ISBN 978-82-519-2808-3, pp. 230-237, indexat SCOPUS, 2011.

Cc19. Andrei, H., Marin, Oana, Ghita, M.R., Ivanovici, T., Nicolaescu, Gh., Nastase, L. and **Andrei, P.C**., *Measurement Data Analysis of Power Quality and Energy Efficiency for Residential Loads Sector*, Proceedings of IEEE – International Conference on Power

and Energy Systems (ICPES), Hong-Kong, China, 12-13 April, 2012.

Cc20. Andrei, H**,** Marin, O., Spinei, F., Cepisca, C., **Andrei, P.C.**, *Topological Algorithm for Linear Multi-Port Network Functions Determination,* Proceedings of IEEE-CSAE, Shanghai, June 10-12, 2011, vol. 2, ISBN 978-1-4244-8726-4, pp. 20-25, indexat SCOPUS, 2011.

Cc21. Andrei, H., Nastase, L., Diaconu, E., Cepisca, C., Grigorescu, S.D., **Andrei, P.C.**, *Contributions on Sensitivity Analysis for the Analog Two-Port Networks in Non-sinusoidal Regime*, IEEE-EUROCON 2011 International Conference on Computer as a Tool - ConfTele 2011, 27-29 April, Lisbon, Portugal, IEEE Catalog Number: CFP11EUR-CDR, ISBN 978-1-4244-7485-1, indexat ISI Web of Science, 2011.

Cc22. Andrei, H., Spinei, F., Cepisca, C., **Andrei, P.C**., *Mathematical Solution to Solve the Minimum Power Point Problem for DC Circuits,* IEEE-AQTR Conference, May, 28-30, 2010, Cluj Napoca, IEEE Catalog Number:CFP10AQT-PRT, ISBN 978-1-4244-6722-8, pp.322-328, indexat SCOPUS, 2010.

Cc23. Andrei, H., Cepisca, C., Grigorescu, S.D., **Andrei, P.C.**, Silaghi, M. *Sensitivity Analysis of the Linear Networks in Non-Sinusoidal Regime,* IEEE-AQTR Conference, May, 28-30, 2010, Cluj Napoca, IEEE Catalog Number:CFP10AQT-PRT, ISBN 978-973-662-562-6, pp.322-328, indexat Google Scholar, 2010.

Cc24. Andrei, H., Cepisca, C., Grigorescu, S.D., **Andrei, P.C.,** *Sensitivity Analysis of the Multiple FeedBack Filter in Non-sinusoidal Regime*, IEEE-SM2ACD'2010, October, 4-6, Gammarth, Tunisia, IEEE Catalog Number:CFP1068J CDR, ISBN 978-1-4244-6815-7, indexat SCOPUS, 2010.

D – Lucrari publicate in reviste si volume de conferinte cu referenti (neindexate)

D1. H. Gavrila, Marilena Stanculescu, M. Maricaru, M. Vasilescu, **P. Andrei,** I. F. Hantila, *„In Situ" evaluation of ferromagnetic bodies magnetic characteristics*, JAPMED'8 (8th Japanese-Mediterraneean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting and Nano Materials) Extended Abstracts Proceedings (CD-ROM), June 23-26, Atena, Grecia, 2013, pp. 1-2.

D2. Marilena Stanculescu, **P. Andrei**, M. Maricaru, M. Vasilescu, I. F. Hantila, *Evaluarea caracteristicilor magnetice ale pieselor feromagnetice*, Simpozionul Național de Electrotehnică Teoretică (SNET'12) Conference Proceedings, Bucharest, ISSN 2067-4147, 2012.

D3. Andrei, H., Cepisca, C., Grigorescu, S.D., Spinei, F., **Andrei, P.C.**, *Application of the minimum dissipated power principle in the study of equilibrium state of the electric circuits under non-sinusoidal conditions,* Proceedings of the International Conference Metrology & Measurements Systems-METSIM 2009, Nov. 5-6, Bucharest, ISBN 978-606-8082-22-6, pp. 35-40, 2009.

D4. Andrei, H**,** Spinei, F., Caciula, **Andrei, P.C.,** *Analysis of the magnetic energy for linear magnetic circuits with modifiable parameters,* Proceedings of the 6-th International Symposium Advanced Topics in Electrical Engineering-ATEE, Bucharest, Nov. 20-21, 2008, ISBN 978-606-521-137-7, pp. 224-229, 2008.

D5. Cepisca, C., Andrei, H., Grigorescu, S.D., Popa, M., **Andrei, P.C.,** Seritan, G., Banica, C., Argatu, Fl., Dogaru, V., Stancu, I., Stancu,L., *Modern solutions for reducing*

the lighting consumption by using a computerized expert system, Simpozionul National de Electrotehnica Teoretica – Proceedings of the 6-th International Symposium Advanced Topics in Electrical Engineering-ATEE, Bucharest, Nov. 20-21, 2008, ISBN 978-606-521-137-7, pp. 89-94, 2008.

D6. Andrei, H., Spinei, F., Cepisca, C., **Andrei, P.C.,** *The Minimum Energetical Principle in Stationary Regime for Electric and Magnetic Circuits,* Proceedings of the 4th International Conference on Metrology and Measurements Systems-METSIM 2007, Bucharest, November, 1-2, 2007, ISBN 978-973-8987-46-3, pp. 125-135, 2007.

E – Brevete

Cerere de brevet cu nr. inregistrare OSIM A 00048/23.01.2015 pentru acordarea unui brevet de inventie cu titlul: "Dispozitiv si metoda pentru determinarea caracteristicii statice B-H a materialelor feromagnetice"

F – Contracte

F1. - Membru (formator)
- Formarea profesionala continua in domeniul electric si informatic pentru calificare/recalificare angajati
- proiect POS-DRU 24/2.3/G/17727
- 2009-2010
- activități de formare profesională, susținere de aplicații și lucrari practice de laborator în domeniul electric și informatic, elaborare suport de curs și aplicații pentru operatori în domeniul informatic.

F2. - Membru (formator)
- Creşterea productivității muncii prin programe de formare continuă în domeniul electric
- proiect PHARE, Dezvoltarea resurselor umane- Promovarea capitalului uman, Linia de buget Phare/016-772.04.02 referință 02.
- 2008-2009
- activități de formare profesională, susținere de aplicații și lucrari practice de laborator în domeniul electric, elaborare suport de curs și aplicații pentru tehnician în instalații electrice.

F3. - Membru
- Intensificarea măsurilor active pentru ocupare prin susținerea de cursuri în meseria de electrician
- proiect PHARE, Programul de coeziune economică şi socială/ Masuri active pe piata muncii - Linia de buget Phare/005 –551.05.03.02.
- 2007-2008
- activități de formare profesională, susținere de aplicații și lucrări practice de laborator în domeniul electric, elaborare suport de curs și aplicații pentru electrician rețele de iluminat.

F4. - Membru

- Initiativa Romano-Italiana pentru Dezvoltarea Energiei Durabile din Resurse Regenerabile
- proiect IRIDE 21/2006
- 2006-2007
- activități de training și de diseminare științifică în domeniul surselor regenerabile de energie, prezentate de profesori de la Universitatea Politehnica București, Universitatea Politehnica din Torino, Universitatea Valahia Târgoviște.

F5. - Membru
- Dezvoltarea infrastructurii centrului de excelență *ICPE-NESL* în domeniul surselor solare de energie – INFRASOLAR
- Programul Operațional Sectorial "Creșterea Competitivității Economice"
Axa Prioritară 2 - Operațiunea 2.3.2 "Investiții pentru viitorul dumneavoastră",
nr. 78/29.09.2009
- 2009-2011
- Proiectul a avut ca obiectiv proiectarea și implementarea în cadrul ICPE a celei mai importante aplicații fotovoltaice integrate în fațada unei clădiri din România. Sistemul fotovoltaic este conectat la rețeaua locală a clădirii și are o putere instalată de 77,19 kW, integrând 4 tehnologii de celule fotovoltaice.

F6. - Membru
- Platforma de bio-monitorizare a parametrilor vitali in operarea infrastructurilor critice
- Contract de prestari servicii de cercetare parteneri Nr. AST 140/23.05.2014
- Proiect nr. 12P019004, cod SMIS-CSNR: 50239

F7. - Membru
- Metode electromagnetice pentru imbunatatirea procedeelor vinicole
- PN II: PARTENERIATE ÎN DOMENII PRIORITARE, ID: PN-II-PT-PCCA-2013-4-2225
- contract 170/2014 cu MEN-UEFISCDI

G – Citări (total 46: 28 ISI, 18 BDI)

G1. Citări în reviste și volumele conferințelor ISI

1	**Articol citat:** Kadri, R., Andrei, H., Gaubert, JP., Ivanovici, T., Champenoise, G., **Andrei, P.,** *Modelling Of The Photovoltaic Cell Circuit Parameters For Optimum Connection Model and Real-Time Emulator With Partial Shadow Conditions,* Energy 42 (2012)-Elsevier, ISSN 0360-5442, pp. 57-67, indexată ISI, factor impact relativ 4,159.
	Articole care citeaza
1a	K.H. Lam, T.M. Lai, W.C. Lo, W.M. To, *The application of dynamic modelling techniques to the grid-connected PV (photovoltaic) systems*, Energy 46 (2012)-Elsevier, ISSN 0360-5442, pp. 264-274, indexată ISI, factor impact relativ 4,159.
1b	*Characterization of PV panel and global optimization of its model parameters using genetic algorithm*, M.S. Ismail ,M. Moghavvemi, T.M.I. Mahlia, Energy Conversion and Management –Elsevier ISSN: 0196-8904, Impact Factor 2.216,

	Volume 73, September 2013, Pages 10–25.
1c	*Experimental investigation of partial shading scenarios on PV (photovoltaic) modules*, Alberto Dolar, George Cristian Lazaroiu, Sonia Leva, Giampaolo Manzolinia, Energy, Volume 55, 15 June 2013, Pages 466–475, ISSN 0360-5442, indexată ISI, factor impact relativ 4,159.
1d	*New MPPT method for stand-alone photovoltaic systems operating under partially shaded conditions,* Bouilouta, A., Mellit, A., Kalogirou, S.A., Energy 55, pp. 1172-1185, 2013,ISSN 0360-5442, indexată ISI, factor impact relativ 4,159.
1e	*Programmable energy source emulator for photovoltaic panels considering partial shadow effect*, Chen, C.-C., Chang, H.-C., Kuo, C.-C.,Lin, C.-C, 2013, Energy 54, pp. 174-183, ISSN 0360-5442, indexată ISI, factor impact relativ 4,159.
1f	*Energy harvesting from the PV Hybrid Power Source,* N. Bizon*,* 2013, Energy 52, pp. 297-307, ISSN 0360-5442, indexată ISI, factor impact relativ 4,159.
1g	*Modeling and maximum power point tracking (MPPT) method for PV array under partial shade conditions*, Qi, J., Zhang, Y., Chen, Y., Renewable Energy, volume 66, issue , year 2014, pp. 337 – 345, factor impact relativ 3,361.
1h	*On-grid and off-grid batch-ED (electrodialysis) process: Simulation and experimental tests,* Uche, J., Círez, F., Bayod, A.A., Martínez, A.Energy, volume 57, issue , year 2013, pp. 44 – 54, ISSN 0360-5442, indexată ISI, factor impact relativ 4,159.
1i	*Solar car aerodynamic design for optimal cooling and high efficiency*, Vinnichenko, N.A., Uvarov, A.V., Znamenskaya, I.A., Ay, H., Wang, T.-H., Solar Energy, volume 103, issue , year 2014, pp. 183 – 190, factor impact relativ 3,541.
1j	*Design of a Plant Leaf Area Meter Using PV Cell and Embedded Microcontroller*, Dilşad Engin,Mustafa Engin, Advances in Materials Science and Engineering, Volume 2013 (2013), Article ID 393045, 8 pages, http://dx.doi.org/10.1155/2013/393045, factor impact relativ 0,5.
1k	*Reconfigurable electrical interconnection strategies for photovoltaic arrays: A review*, Damiano La Manna, Vincenzo Li Vigni, Eleonora Riva Sanseverino, Vincenzo Di Dio, Pietro Romano, Renewable and Sustainable Energy Reviews, Volume 33, May 2014, Pages 412–426, factor impact relativ 5,510.
1l	*Analysis of spatial fixed PV arrays configurations to maximize energy harvesting in BIPV applications*, Celik, B., Karatepe, E., Silvestre, S., Gokmen, N., Chouder, A. Renewable Energy, volume 75, year 2015, pp. 534 – 540, factor impact relativ 3,36.
1m	*Programmable energy source emulator for photovoltaic panels considering partial shadow effect,* Cheng-Chuan Chen, Hong-Chan Chang, Cheng-Chien Kuo, Chien-Chin Lin, Energy, Volume 54, 1 June 2013, Pages 174–183, ISSN 0360-5442, indexată ISI, factor impact relativ 4,159.
1n	*A review of maximum power point tracking techniques for use in partially shaded conditions*, Yi-Hua Liu,Jing-Hsiao Chen,Jia-Wei Huang, Renewable and Sustainable Energy Reviews, Volume 41, January 2015, Pages 436–453, ISSN: 1364-0321, factor impact relativ 5,510.
1o	*A Circuit for Energy Harvesting Using On-Chip Solar Cells,* Ghosh, S.; Hsuan-Tsung Wang ; Leon-Salas, W.D., IEEE Transactions on Power Electronics, sept. 2014, Volume: 29 , Issue: 9, Page(s): 4658 – 4671, ISSN: 0885-8993, factor impact relativ 5,726.

1p	*An accurate method for the PV model identification based on a genetic algorithm and the interior-point method*, Arash M. Dizqah, Alireza Maheri, Krishna Busawon, Renewable Energy, volume 72, Dec. 2014, indexată ISI, pp. 212-222, ISSN: 0960-1481, factor impact relativ 3,361.
1q	*New procedure and field-tests to assess photovoltaic module performance*, M. Paulescu, V. Badescu, C. Dughir, Energy, Volume 70, 1 June 2014, Pages 49–57, ISSN 0360-5442, indexată ISI, factor impact relativ 4,159.
1r	*Energy Harvesting Using Substrate Photodiodes,* Pour, G.M. Benyhesan, M.K. ; Leon-Salas, W.D., IEEE Transactions on Circuits and Systems II: Express Briefs, Volume:61, Issue: 7, Page(s):501 – 505, July 2014, ISSN:1549-7747, indexată ISI, factor impact relativ 1,187.
1s	*Two-Stage Chaos Optimization Search Application in Maximum Power Point Tracking of PV Array*, Lihua Wang, Xueye Wei, Tianlong Zhu, and Junhong Zhang, Mathematical Problems in Engineering, Volume 2014, Article ID 464835, 11 pages, http://dx.doi.org/10.1155/2014/464835, indexata ISI, factor imapct relativ 1.082.
1t	*A novel MPPT (maximum power point tracking) algorithm based on a modified genetic algorithm specialized on tracking the global maximum power point in photovoltaic systems affected by partial shading*, S. Daraban, D. Petreus, Cristina Morel, Energy, Volume 74, 1 September 2014, Pages 374–388, indexată ISI, factor impact relativ 4,159.
2	**Articol citat:** *Analysis and experimental verification of the sensitivity of PV cell model parameters,* H Andrei, T Ivanovici, E Diaconu, MR Ghita, Oana Marin, **PC Andrei,** IEEE-International Conference on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design (SMACD), 2012, Pages: 129-132, Publisher IEEExplore
	Articole care citeaza
2a	*A Neural Network-Based Low-Cost Solar Irradiance Sensor*, Mancilla-David, F. Riganti-Fulginei, F. Laudani, A. Salvini, A., IEEE Transactions on Instrumentation and Measurement, Volume:63, Issue: 3, Page(s):583 – 591, ISSN:0018-9456, INSPEC Accession Number: 14078043, DOI:10.1109/TIM.2013.2282005, March 2014, indexat ISI, factor impact 1,710
3	**Articol citat**: *Irradiance sensitivity of the model parameters of photovoltaic cells,* H. Andrei, T. Ivanovici, G. Predusca, **P.C. Andrei,** E. Diaconu, IEEE - 13th International Conference on Conference Optimization of Electrical and Electronic Equipment (OPTIM), 2012, Pages: 893-898, indexat IEEEXplore
	Articole care citeaza
3a	*The parameters-test of photovoltaic effect and the performance analysis of PV power system*, Aimin An; Liwen Chen ; Haocheng Zhang ; Bing Lv ; Xichao Zhou, IEEE-33rd Chinese Control Conference (CCC), 28-30 July 2014, Page(s):7022 – 7026, INSPEC Accession Number:14582933, Nanjing, DOI:10.1109/ChiCC.2014.6896159, indexat ISI Proceedings
4	Articol citat: Andrei, H., Marin, Oana, Ghita, M.R., Ivanovici, T., Nicolaescu, Gh., Nastase, L. and **Andrei, P.C.**, *Measurement Data Analysis of Power Quality and Energy Efficiency for Residential Loads Sector*, Lectures Notes in Information Technology-LNIT journal, vol. 13, ISSN 2070-1918, pp. 156-164, indexată

	INSPEC, 2012.
	Articole care citeaza
4a	*A Comparative Assessment of Ways of Regulating Heat Consumption*, V. P. Chipulis, Measurement Techniques, December 2014, Volume 57, Issue 9, pp 1023-1031, ISSN: 0543-1972 (print version), ISSN: 1573-8906 (electronic version), Indexat ISI, impact factor 0,191
5	**Articol citat:** Andrei, H., Cepisca, C., Dogaru, V., Ivanovici, T., Stancu, L., **Andrei, P.C.,** *Measurements Analysis of Advanced System for Reducing the Energy Consumption of Public Street Lighting Systems*, Proc. of IEEE-PowerTech, Bucharest, June 26-July 2, 2009, pp. 684-690, IEEE Catalog number: CFP09815-CDR, ISBN 987-1-4244-2235-7, Library of Congress: 2008901840, indexat ISI Proceedings.
	Articole care citeaza
5a	*A case study for energy issues of public buildings and utilities in a small municipality: Investigation of possible improvements and integration with renewables,* Daniele Fiaschi, Romeo Bandinelli, Silvia Conti, Applied Energy, Volume 97, September 2012, Pages 101–114, ISSN: 0306-2619, indexat ISI, Impact Factor: 5.261

G2. Citări în reviste şi volumele conferinţelor BDI

1	**Articol citat:** Kadri, R., Andrei, H., Gaubert, JP., Ivanovici, T., Champenoise, G., Andrei, P., *Modelling Of The Photovoltaic Cell Circuit Parameters For Optimum Connection Model and Real-Time Emulator With Partial Shadow Conditions,* Energy 42 (2012)-Elsevier, ISSN 0360-5442, pp. 57-67, indexată ISI, factor impact relativ 4,159.
	Articole care citeaza
1a	*Emulation of Photovoltaic arrays with shading effect for testing of grid-connected inverters,* Geury, T.,Gyselinck, J., 2013, 15th European Conference on Power Electronics and Applications, Lille, 2-6 Sept., EPE 2013, pg. 1 – 9, 10.1109/EPE.2013.6631803
1b	*Sensitivity analysis of solar photovoltaic modules to environmental factors through new definitions and formulas*, Ziar, H.,Karegar, H.K., 2013, Journal of Renewable and Sustainable Energy, 5, 053109 (2013);http://dx.doi.org/10.1063/1.4821213
1c	*Application of the strong tracking Unscented Kalman filter algorithm in photovoltaic system maximum power point tracking* , Nie, X.-H., 2013, Dianli Xitong Baohu yu Kongzhi/Power System Protection and Control
1d	*Matlab-Simulink of photovoltaic system based on a two-diode model simulator with shaded solar cells*, N. Belhaouas, M.S. Ait Cheikh, A. Malek and C. Larbes, Revue des Energies Renouvelables, Vol. 16 N°1 (2013), pp. 65 – 73
1e	*The Extremum Seeking Control Based on Band Pass Filter for the Dither Signal Processed in the Control Loop,* N. Bizon, M. Oproescu, M. Raducu, L.M. Constantinescu, International Journal on Technical and Physical Problems of Engineering (IJTPE), ISSN 2077-3528, September 2013, Issue 16, Volume 5, Number 3, Pages 133-141

1f	*Design and Modeling of Centralized Distribution Network for the DC House Project*, Harpreet S. Bassi, California Polytechnic State University - San Luis Obispo, Degree Name: MS in Electrical Engineering, 6-2013, URL: http://digitalcommons.calpoly.edu/theses/980.
1g	*Energy and Data Conversion Circuits for Low Power Sensory Systems*, Ghosh, Suvradip, Computer Science and Electrical Engineering Electronic Theses and Dissertations - University of Missouri-Kansas City (UMKC), 2014-04-02, http://hdl.handle.net/10355/41509
1h	*A perturb and observe method using fuzzy logic control for PV pumping system,* Sarah, A. Rachid, E.B., Proc. of IEEE - International Conference on Multimedia Computing and Systems (ICMCS), 14-16 April 2014, Marrakech, Page(s): 1608 – 1612,Print ISBN:978-1-4799-3823-0, INSPEC Accession Number:14617977, DOI:10.1109/ICMCS.2014.6911337, Publisher:IEEE
1i	*Dynamic and Reconfigurable Photovoltaic Emulator Based on FPAA*, F. Barra, M. Balato, L. Costanzo, D. Gallo, C. Landi, M. Luiso, M. Vitelli, 20th IMEKO TC4 International Symposium and 18th International Workshop on ADC Modelling and Testing Research on Electric and Electronic Measurement for the Economic Upturn Benevento, Italy, September 15-17, 2014, ISBN-14: 978-92-990073-2-7, pp.1005-1010.
1j	*Non-linear model predictive energy management strategies for stand-alone DC microgrids*. Moradinegade Dizqah, Arash, Doctoral thesis, Northumbria University, Newcastle, UK, Faculty of Engineering and Environment, 2014, http://nrl.northumbria.ac.uk/17747/
1k	*Partial shading problem solution for solar arrays fed by MPPT via permanent monitoring of individual panels*, Domorad, P. Averbukh, M., Published in: 2014 IEEE 28th Convention of Electrical & Electronics Engineers in Israel (IEEEI), 3-5 Dec. 2014, Eilat, Israel, Page(s):1 – 5, Print ISBN:978-1-4799-5987-7, INSPEC Accession Number:14850467, DOI: 10.1109/EEEI.2014.7005767 Publisher: IEEE.
1l	*Faults Detection in a Photovoltaic Generator by Using Matlab Simulink and the chipKIT Max32 Board,* Riadh Khenfer, Mohamed Mostefai,1 Seddik Benahdouga and Mounir Maddad, International Journal of Photoenergy, Volume 2014, Article ID 350345, 9 pages, http://dx.doi.org/10.1155/2014/350345.
1m	*Analyse de Deux Modèles Types de la Cellule Photovoltaïque,* Z. Layate, T. Bahi, H. Bouzeria, S. Lekhchine, Le 3ème Séminaire International sur les Energies Nouvelles et Renouvelables (The 3nd International Seminar on New and Renewable), Energies Unité de Recherche Appliquée en Energies Renouvelables, Ghardaïa – Algérie, 13 et 14 Octobre 2014, pp.1-5
1n	*Prediction of current and the maximum power of solar cell via voltage generated by light and irradiance using analytically invertible function*, Liu Changshi, Solar Energy, Volume 113, March 2015, Pages 340–346, ISSN: 0038-092X, indexat Google Scholar
2	**Articol citat :** *Curve fitting method for modeling and analysis of photovoltaic cells characteristics,* H Andrei, T Ivanovici, G Predusca, E Diaconu, **PC Andrei,** IEEE International Conference on Automation Quality and Testing Robotics (AQTR), 2012, Pages 307-312, Publisher IEEE, indexat SCOPUS
	Articole care citeaza

2a	*Best Multiple Non-linear Model Factors for knock Engine (SI) by using ANFIS*, Azher Razzaq Hadi Witwit, Azman Yasin, Horizon Gitano, Mohammed Ismael Mahmood, Asian Journal of Applied Sciences, ISSN: 2321 – 0893, Volume 02 – Issue 04, August 2014, pp. 464-470
2b	*Comparative Analysis of Different Single-Diode PV Modeling Methods",* Shongwe, Samkeliso, and Moin Hanif, IEEE Journal of Photovoltaics, ISSN: 2156-3381, DOI: 10.1109/JPHOTOV.2015.2395137, article in press, 2015
2c	*Statistical Analysis for Multiple Non-Linear Knock Factors in Internal Combustion Engine*, Azher Razzaq Hadi Witwit, Azman Yasin,Horizon Gitano, Mohammed Ismael Mahmood, Applied Mechanics and Materials - Internal Combustion Engine and Computational Fluid Mechanics, pp. 373-380, 10.4028/www.scientific.net/AMM.663.373, ISSN: 1662-7482, 2015.
3	**Articol citat:** *Analysis and experimental verification of the sensitivity of PV cell model parameters,* H Andrei, T Ivanovici, E Diaconu, MR Ghita, Oana Marin, **PC Andrei,** IEEE-International Conference on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design (SMACD), 2012, Pages: 129-132, Publisher IEEExplore
	Articole care citeaza
3a	*Impact of Photovoltaic (PV) Systems on Distribution Networks*, Wadhah Esmaeel Ibraheem, Chin Kim Gan, Mohd Ruddin Ab. Ghani, International Review on Modelling and Simulations (IREMOS), ISSN: 1974-9821, Vol 7, No 2 (2014), pp.298-310
4	**Articol citat :** Andrei, H., Cepisca, C., Dogaru, V., Ivanovici, T., Stancu, L., **Andrei, P.C.,** *Measurements Analysis of Advanced System for Reducing the Energy Consumption of Public Street Lighting Systems*, Proc. of IEEE-PowerTech, Bucharest, June 26-July 2, 2009, pp. 684-690, IEEE Catalog number: CFP09815-CDR, ISBN 987-1-4244-2235-7, Library of Congress: 2008901840, indexat ISI Proceedings.
	Articole care citeaza
4a	*A Solution for Street Lighting in Smart Cities* M. Popa and A. Marcu, Carpathian Journal of Electronic and Computer Engineering 5 (2012) 91-96, ISSN 1844 – 9689, indexat IndexCopernicus, ProQuest, EBSCO
4b	Pinto, M. F., Soares, G. M., Mendonca, T. R., Almeida, P. S., & Braga, H. A. (2014, December). *Smart modules for lighting system applications and power quality measurements.* In Industry Applications (INDUSCON), 2014 11th IEEE/IAS International Conference on (pp. 1-8), IEEEXplore
4c	Khawari, Hassan, and Mohammad Nazem. *"Intelligent Lighting Control System Based on Zigbee Communication,* indexare Google Scholar
4d	Zeilinger, Heimo, Thomas Novak, and Wolfgang Wimmer. *"Energieevaluierung einer adaptiven LED Straßenbeleuchtung,* indexare Google Scholar
4e	*A performance study of ZigBee wireless sensors network topologies for street lighting control systems,* Lavric, A. ; Popa, V. ; Males, C. ; Finis, I. Mobile and Wireless Networking (iCOST), 2012 International Conference on Selected Topics in, Date of Conference:2-4 July 2012, Page(s):130 – 133, Print ISBN:978-1-4673-0935-6, INSPEC Accession Number:12945708, Conference Location :Avignon, DOI: 10.1109/iCOST.2012.6271280, Publisher:IEEE, Indexat ISI Proceedings

4f	*Measurement of power characteristics in public lighting networks,* Peter JANIGA, Dionýz GAŠPAROVSKÝ, PRZEGLĄD ELEKTROTECHNICZNY, ISSN 0033-2097, R. 89 nr. 6/2013, indexat ISI, **factor impact 0,242**
5	**Articol citat : Andrei, P.C.,** *Simulations results of Life cycle assessment of 30kWp PV System Installed at University Politehnica of Bucharest Romania,* The Scientific Bulletin of Electrical Engineering Faculty, Year 11, No. 3, Târgovişte Bibliotheca Publishing House, ISSN 1843-6188, pp. 45-50, indexată CNCSIS B+ şi Index Copernicus Journal Master List, 2011.
	Articole care citeaza
5a	*Emerging Trend in Life Cycle Assessment of Various Photo-voltaic Systems,*Kumar, A., Das, S., Sadhu, P. K., & Pal, N. (2014), IJCET Vol. 4, no. 3, pp 1206-1217, E-ISSN 2277 – 4106, 2014
6	**Articol citat:** *Modeling of the PV panels circuit parameters using the 4-terminals equations and Brune's conditions,* Horia Andrei, Costin Cepisca, SD Grigorescu, Traian Ivanovici, **Paul Andrei**, The Scientific Bulletin of Electrical Engineering Faculty, 2010, year 10, no. 1 (12), pp. 63-67, ISSN 1843-6188, indexat BDI
	Articole care citeaza
6a	*A Comprehensive Analysis for Extracting Single Diode PV Model Parameters by Hybrid GA-PSO Algorithm,* C.Saravanan, A.Panneerselvam, International Journal of Computer Applications (0975 – 8887) Volume 78 – No.8, September 2013