1. *El-Mallh, A., Shalaby, M.A., and* ***Badr, M. A***., “ ***A Model to Estimate Wind Power at Selected Sites in Egypt***”, Proc. of 6th ICMPE, Cairo , Dec. 1986.

2. *Shalaby, M.A., El-Mallah, A., and* ***Badr M.A****.,* ***“ Simulation of The Performance of Small Size Wind Turbine System for Houshold Loads”***. The 2ndInt. Conference for Desert Development. Cairo, Jan. 1987.

3. *El-Mallah, A., Shalaby, M.A., and* ***Badr, M. A*.**, ***“A Stochastic Simulation Model For A Hybrid Renewable Energy System.Supplying A Remote Community”***, Al-Azhar 3rd Int. Conference, vol.7, pp 396, Dec. 1994., Dec. 1994.

4. *Shalaby, M.A., and* ***Badr, M. A***. “ ***A Response Surface Optimization Methodology For A Wind -Diesel Energy System.”***, 3rd World Renewable Energy Congress, vol.3, **Reading, UK**, Sep.1994.

5. *Abed, K.A.,* ***Badr, M. A****., and El-Mallah, A.,* ***“Off-Design Performance of Small Wind Turbine”***, Cairo, Int. Conference on Energy, Development, and Environment**, Egypt**, Oct. 1994.

6*. El-Mallah, A., Abed, K.A.,* ***Badr, M. A****.*, ***“ Effect of Using Renewable Energy Sources On The Reduction of CO2 Emission.”,*** Solar Energy Society, **Harare**, 1995.

7. *Khattab, N.M. and* ***Badr, M. A****.,* ***“Economic Evaluation of All Year Round Solar Dryer”***, Proc. of Al-Azhar Engineering 4th Conference,vol.7 Cairo, **Egypt**, Dec.1995.

8. *Hanafi, A.S.,* ***Badr, M. A****., El-Mallah, A.A., and Ibrahim, M.I.,* “***Performance Analysis of Wind/Solar/Diesel system With Hydrogen Storage***”, 11th World Hydrogen Energy Conference, **Germany**, June 1996.

9. *Ibrahim,M.I., Zacharias,P., and* ***Badr, M. A***., ***“ Performance Analysis and Sizing of an Integrated Energy System Using Long Term Storage”***, 14th EUPVSEC and Exhibition, **Spain**, July 1997.

10. *Ibrahim, S.M.A., El-Kordy, M.N.,* ***Badr, M. A****., Abed, K.A., and El-Mallh, A*., “***Environmental Impact Evaluation of Wind Energy Exploitation***”, Proc. of Renewable Energy Congress, Florence, **Italy**, 1998.

11. ***Badr, M. A***., ***“Generalization of The Performance of Medium Size Variable Speed Operation Wind Turbines***”, Journal of Egyptian Society of Engineers, vol.38, No. 2, 1999.

12*. El-Kordy, M.N,* ***Badr, M. A.,*** *Abed, K.A., and El-Mallah, and Ibrahim, S.M.A*., “***Environmental Impact Evaluation Assessment Matrices for Electricity Generation Systems***”, ”, Journal of Egyptian Society of Engineers, vol.39, No. 3, 2000.

13*. El-Kordy, M.N****, Badr, M. A****., Abed, K.A., and Ibrahim, S.M.A*., “***Economical Evaluation of Electricity Generation Considering Externalitiss”***, Journal of Egyptian Society of Engineers, vol.39, No. 4, 2000.

14. *A. S. Hozayyin,* ***M. A. Badr*** *and M. E. Hellal*, " ***An Investigation of Group Scheduling Heuristics in a Flow-Line Cell"***, Proceedings of Current Advances in Mechanical Design and Production VII, Cairo, Egypt, 2000

15. *El Chazly, N. and* ***Badr, M. A****.,* “***Renewable Energy Options and Environmental Benefits***”, Sharja Solar Energy Conference”, Feb. 2001.

16. *Maalawi, K.Y., and* ***Badr, M. A*.,** “***A Practical Approach for Selecting Optimum Wind Rotors”,*** Renewable Energy Journal, vol.28, pp 803-822, 2003.

17. *Maalawi, K.Y., and* ***Badr, M. A****.,”****Key-Design Equations of Electricity-Generating Wind Turbines”***, Journal of Egyptian Society of Engineers, vol.43, No 1, 2004

18. *K. A. Abed and* ***M. A. Badr***, “***Off-Desin Performance Characteristics of Wind Turbines***”, World Renewable Energy Congress IX, Florence, Italy. August 2006.

19. *M.E. Abd El-Samie,* ***M.A.Badr****, A.M. Abou El-Fotooh*, **" *Microbial Hydrogen Production"*,** Journal of Applied Sciences Research, 2007.

20. *M. A. Ziada,* ***M. A. Badr***; “***Turbulence- characteristics of the Flow Field under air cushion plenum chambers"****,* 3rd. Engineering Research Division Conferemce, NRC, March-2008.

21. ***M. A. Badr****, K. A. Abed, A. A. El-Mallah and M. I. El Anwar*, **“*Optimal Design of Hybrid Systems with Battery Storage****”.* Proceeding of the 4th European Consfernce on PV-Systems, Glyfada, Greece, May- 2008*.*

22. *Karam Y. Maalawi1* ***& M. A. Badr***; “***Optimal Frequency Design of a Variable-Pitch Wind Turbine Blade*”**. Proceedings of WREC X, Glasgow, Scotland, July-2008.

23. *Azza Hafez, Maaly Khedr,* ***Mervat Badr****, Kamel El Khateeb, Hanaa , Saied El Hallaj Fouad Taymor*, "***Energy In Egypt: Current Status And Future Prospects",*** Proceedingss of the Global Conference on Global Warming-2008 (GCGW-08), Istanbul, Turkey, July 2008

24. M. A. Badr, K. A. Abed, A. A. El-Mallah***,"Investigation of Socio-Economic and Energy Indicators in the Context of Environmental Impacts: Egyptian Case Study***", Engineering Research Journal (ERJ), Menoufia University, Vol. 32, No. 3 July 2009.

25. ***M. A. Badr****, K. A. Abed, A. A. El-Mallah****,"*** ***Airborn Emissions from Wind Energy and Photovoltaic Life Cycle”,*** Engineering Research Journal (ERJ), Menoufia University, Vol. 32, No. 3 July 2009.

26. *Karam Y. Maalawi &* ***M. A. Badr*,** ***" Design Optimization of Mechanical Elements and Structures: a Review with Application"***, Journal of Applied Sciences Research, 2009.

27. *Karam Y. Maalawi &* ***M. A. Badr***, “***Frequency Optimization of a Wind Turbine Blade in Pitching Motion”***, Accepted for publication in Journal of Power and Energy, 2010.

28. [*El-Hossainy, T.M.*](http://www.scopus.com/authid/detail.url?origin=resultslist&authorId=23994834100&zone=)*,* [*El-Zoghby, A.A.*](http://www.scopus.com/authid/detail.url?origin=resultslist&authorId=6505762482&zone=)*,* [***Badr, M.A.***](http://www.scopus.com/authid/detail.url?origin=resultslist&authorId=7101945697&zone=)*,* [*Maalawi, K.Y.*](http://www.scopus.com/authid/detail.url?origin=resultslist&authorId=6602887672&zone=)*,* [*Nasr, M.F.*](http://www.scopus.com/authid/detail.url?origin=resultslist&authorId=7102226708&zone=) “[***Cutting parameter optimization when machining different materials***](http://www.scopus.com/record/display.url?eid=2-s2.0-78650362312&origin=resultslist&sort=plf-f&src=s&st1=Maalawi&sid=Ae4V4-P-dNFGGWr-G9EwLQK%3a40&sot=b&sdt=b&sl=156&s=AUTHOR-NAME%28Maalawi%29+AND+DOCTYPE%28ar%29+AND+SUBJAREA%28MULT+OR+CENG+OR+CHEM+OR+COMP+OR+EART+OR+ENER+OR+ENGI+OR+ENVI+OR+MATE+OR+MATH+OR+PHYS%29+AND+PUBYEAR+AFT+2009&relpos=1&relpos=1&searchTerm=AUTHOR-NAME(Maalawi)%20AND%20DOCTYPE(ar)%20AND%20SUBJAREA(MULT%20OR%20CENG%20OR%20CHEM%20OR%20COMP%20OR%20EART%20OR%20ENER%20OR%20ENGI%20OR%20ENVI%20OR%20MATE%20OR%20MATH%20OR%20PHYS)%20AND%20PUBYEAR%20AFT%202009)”, [Materials and Manufacturing Processes](http://www.scopus.com/source/sourceInfo.url?sourceId=21054&origin=resultslist) 25 (10), pp. 1101-1114, 2010.

29. [*Ismail, N.*](http://www.scopus.com/authid/detail.url?origin=resultslist&authorId=35746143500&zone=)*,* [*Temerk, Y.M.*](http://www.scopus.com/authid/detail.url?origin=resultslist&authorId=6603892808&zone=)*,* [*El-Meligi, A.A.*](http://www.scopus.com/authid/detail.url?origin=resultslist&authorId=35299026700&zone=)*,* [***Badr, M.A****.*](http://www.scopus.com/authid/detail.url?origin=resultslist&authorId=35745517800&zone=)*,* [*Madian, M.*](http://www.scopus.com/authid/detail.url?origin=resultslist&authorId=35746637400&zone=), “[***Synthesis and characterization of MnPS3 for hydrogen sorption***](http://www.scopus.com/record/display.url?eid=2-s2.0-77953166482&origin=resultslist&sort=plf-f&src=s&st1=N.+Ismail&sid=Ae4V4-P-dNFGGWr-G9EwLQK%3a300&sot=b&sdt=b&sl=204&s=FIRSTAUTH%28N.+Ismail%29+AND+DOCTYPE%28ar%29+AND+SUBJAREA%28MULT+OR+MEDI+OR+NURS+OR+VETE+OR+DENT+OR+HEAL+OR+MULT+OR+CENG+OR+CHEM+OR+COMP+OR+EART+OR+ENER+OR+ENGI+OR+ENVI+OR+MATE+OR+MATH+OR+PHYS%29+AND+PUBYEAR+AFT+2009&relpos=19&relpos=19&searchTerm=FIRSTAUTH(N.%20Ismail)%20AND%20DOCTYPE(ar)%20AND%20SUBJAREA(MULT%20OR%20MEDI%20OR%20NURS%20OR%20VETE%20OR%20DENT%20OR%20HEAL%20OR%20MULT%20OR%20CENG%20OR%20CHEM%20OR%20COMP%20OR%20EART%20OR%20ENER%20OR%20ENGI%20OR%20ENVI%20OR%20MATE%20OR%20MATH%20OR%20PHYS)%20AND%20PUBYEAR%20AFT%202009)”, [Journal of Solid State Chemistry](http://www.scopus.com/source/sourceInfo.url?sourceId=26972&origin=resultslist) 183 (5), pp. 984-987, 2010.

30. *K. A. Abed, A.A. Almalllh and* ***M. A. Badr***, “***Energy Efficiency Uses in Peri-Urban Regions: Egyptian Case Study***”, Advances in Environment, Biotechnology and Biomedicine, 2012 (ISBN: 978-1-61804-122-7).

31. *A. Bahgat, K.A. Abed,* ***M.A. Badr****, M. A. El-Bayoumy and A. A. Ragheb*, **“*Experimental Results of Computer Monitoring of PV-Based Energy System,*** World Renewable Energy Congress WREC XIII, London, UK, 3-8 Aug. 2014.

32. ***M.A. Badr****, A.N. Mohib and M.M. Ibrahim,“****Small Wind Turbine Hybrid System for Remote Application: Egyptian Case Study***”International Journal of Mechanical, Aerospace, Industrial and Mechatronics Engineering Vol:8 No: 9, Sep. 2014.

33. ***M. A. Badr****, A. N. Mohib, M. M. Ibrahim*, "***Small Wind Turbine Hybrid System for Remote Application: Egyptian Case Study***". World Academy of Science, Engineering and Technology, International Journal of Mechanical, Aerospace, Industrial, Mechatronics and Manufacturing Engineering Vol. 8, No. 9, 2014

34. *K.A. Abed,* ***M.A. Badr****, Enas R. Shouman*, “***Cost Analysis of Energy Efficient Domestic Refrigerators***”, International Research Journal of Electronics & communication Engineering. Volume1, Issue 4 of May 2015. [www.irjece.com](http://www.irjece.com) - ISSN: 2395-0587

35. *M.F. Nasr, A.A. El-Zoghby, K.Y. Maalawi, B.S. Azzam and* ***M.A. Badr***, “***Torsional Buckling Optimization of Composite Drive Shafts***”***,*** World Applied Sciences Journal 33 (3): 517-524, 2015- ISSN 1818-4952

36. *Enas R. Shouman, E.T. El Shenawy and* ***M.A. Badr***, “***Economics Analysis of Diesel and Solar Water Pumping With Case Study Water Pumping for Irrigation in Egypt”,*** International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.5 pp. 3979-3982, 2015*.* http://www.ripublication.com/ijaer.htm

1. *M.A. Fouad,* ***M.A. Badr****, M.M. Ibrahim*, "***A Study of an Egyptian Micro-Grid System with Economic Appraisal***", Journal of Engineering and Applied Science, Vol.63, No3, PP. 183-199. June 2016.
2. N. M. Khattab, M. A. Badr, K. Y. Maalawi, E. T. El Shenawy, H. H. El Ghetany, M. M. Ibrahim, "Hybrid Renewable Energy System For Water Desalination: A Case Study For Small Green House Hydroponic Cultivation In Egypt", ARPN Journal of Engineering and Applied Sciences, NOVEMBER 2016 , 11, (21)
3. *Mahmoud A. Fouad,* ***M.A. Badr****, M.M. Ibrahim*, "***Economic Evaluation of Micro-Grid System (On/Off Grid): Egyptian Case Study***", International Journal of Scientific & Engineering Research, Volume 8, Issue 2, February-2017.
4. *M.A. Fouad,* ***M.A. Badr****, M.M. Ibrahim*, "***Modeling of Micro-Grid System Components Using Matlab/Simulink***", Global Scientific Journals, Volume 5, Issue 5, May 2017.
5. *Mahmoud A. Fouad,* ***M.A. Badr****, Z. S. Abd El Rehim, Taher Halawa, M.M. Ibrahim*, "***Effect of Some Parameters on the Cost of Energy Generated from Renewable Energy Based Micro Grid System***", Journal of Scientific and Engineering Research (JSER), ISSN:2394-2630, Vol 4, No. 9, 2017.
6. *Tewfik S, Abulnour A, Shaalan H,* [El-Anwar M](https://www.mendeley.com/authors/36672764400)*, Ali S, Abed K, Badr M, Sorour M*, **“**[***Analysis of some engineering parameters relevant to the performance and reliability of hollow fiber spinning system***](http://www.mendeley.com/research/analysis-some-engineering-parameters-relevant-performance-reliability-hollow-fiber-spinning-system)*”,*ARPN Journal of Engineering and Applied Sciences 12(15), 2017.
7. ***M. A. Badr****, M. M. El Sayed, A. Aref, A. Salah*, "***Improving Material Flow in a Mixed-Line Production Facility: A Case Study in Washing Machine Factory*",** 4th International Conference of Engineering Division NRC-ICED 2018
8. *K.A. Abed, A. Bahgat,* ***M.A. Badr****, M. A. El-Bayoumi and A. A. Ragheb*, **“*Experimental Study of Battery of Battery State of Charge Effect on Battery Output Power in PV Energy System",*** ARPN Journals (JEAS), Volume 2, 2018.
9. *M. A. Fouad,* ***M. A. Badr****, Taher Halawa, M. M. Ibrahim, "****Technical and Economic Analysis of Smart Micro-Grid Renewable Energy System: An Applicable Case Study",*** Conference Proceedings, Bangkok Thailand Dec 13-14, 2018, 20 (12) Part VI
10. *M.A. Fouad,* ***M.A. Badr****, M.A. El Bayoumi, M.M. Ibrahim, "****Experimental Investigation Results Super-capacitors vs. Batteries****",* Journal of Scientific and Engineering Research 212 Journal of Scientific and Engineering Research, 2019, 6(1):212-227. Available onlinewww.jsaer.com
11. *M.A.Fouad,* ***M.A.Badr****, M.M.Ibrahim,* ***"Economic Evaluation of Micro-Grid System (On/Off Grid): Egyptian Case Study",***International Journal of Scientific & Engineering Research, Volume 8, Issue 2, February-2017
12. *M.A.Fouad,* ***M.A. Badr****, M.M.Ibrahim, "****Modeling of Micro-Grid System Components Using Matlab/Simulink",***Global Scientific Journals, Volume 5, Issue 5, May 2017.
13. *M.A.Fouad,* ***M.A. Badr****, Z.S. Abd El-Rehim, Taher Halawa and M.M. Ibrahim, "****Effect Of Some Parameters On the Cost Of Energy Generated From Renewable Energy Based Micro Grid System****",* Journal of Scientific and Engineering Research, Volume 4, Issue 9, Sep. 2017.
14. *M.M.Ibrahim, M.A. Fouad and* ***M.A.Badr****, "****Design of Micro-Grid Renewable Energy System with Energy Storage****",* ISBN: 978-620-2-30810-6, Scholars' Press Academic Publishing, Germany, 2018.
15. *M.A.Fouad,* ***M.A.Badr****, Z.S. Abd El-Rehim, Taher Halawa, Mahmoud Bayoumi and M.M.Ibrahim, "****Technical and Economic Analysis of Smart Micro-Grid Renewable Energy System: Applicable Case Study"****,*Conference Proceeding of 20th International Conference of Engineering Applications and Renewable Energy, Bangkok, Thailand, Nov.2018*.*
16. *M.A. Fouad,* ***M.A.Badr****, Mahmoud Bayoumi and M.M.Ibrahim, "****Experimental Investigation Results Super-capacitors vs. Batteries****",* Journal of Scientific and Engineering Research, Volume 6, Issue 1, 2019.
17. *Amal ElBerry,* ***M.A.Badr*** *and Marwa M. Ibrahim, "****Reliability Analysis of Gas Turbine Power Plant Based on Failure Data****",* International Journal of Mechanical & Mechatronics Engineering IJMME-IJENS, Volume 20, Issue 2, PP.13-25, 2020.
18. ***“Modelling, Simulation and Optimization of Wind Farms and Hybrid Systems***," IntechOpen 978-1-78985-612-5.

 <https://www.intechopen.com/books/modeling-simulation-and-optimization-of-wind-farms-and-hybrid-systems>