

Latest Publications

D) Journals

A novel smart grid theory for optimal sizing of hybrid renewable energy systems

[AM Eltamaly](#), [MA Mohamed](#), [AI Alolah](#) - Solar Energy, 2016 - Elsevier

Dynamic simulation of single phase transverse flux linear motor

[R Meer](#), [HM Hasanien](#), [AI Alolah](#) - ... International Renewable and ..., 2014 - [ieeexplore.ieee.org](#)

PSO-Based Smart Grid Application for Sizing and Optimization of Hybrid Renewable Energy Systems

[MA Mohamed](#), [AM Eltamaly](#), [AI Alolah](#) - PloS one, 2016 - [journals.plos.org](#)

Improving the dynamic performance of a grid-connected wind energy conversion system using flywheel energy storage system

[TA Taj](#), [HM Hasanien](#), [AI Alolah](#) - 2015 IEEE International ..., 2015 - [ieeexplore.ieee.org](#)

Dynamic performance enhancement of a grid-connected wind farm using doubly fed induction machine-based flywheel energy storage system

[TA Taj](#), [HM Hasanien](#), [AI Alolah](#)... - ... Congress (IREC), 2015 ..., 2015 - [ieeexplore.ieee.org](#)

A smart technique for optimization and simulation of hybrid photovoltaic/wind/diesel/battery energy systems

..., [MA Mohamed](#), [AI Alolah](#) - Smart Energy Grid ..., 2015 - [ieeexplore.ieee.org](#)

Sizing and techno-economic analysis of stand-alone hybrid photovoltaic/wind/diesel/battery power generation systems

..., [AM Eltamaly](#), [AI Alolah](#) - Journal of Renewable and ..., 2015 - [scitation.aip.org](#)

Design development of two phase transverse flux linear motor with permanent-magnet excitation

[R Meer](#), [HM Hasanien](#), [AI Alolah](#) - 2015 IEEE International ..., 2015 - [ieeexplore.ieee.org](#)

Transient stability enhancement of a grid-connected wind farm using an adaptive neuro-fuzzy controlled-flywheel energy storage system

[TA Taj](#), [HM Hasanien](#), [AI Alolah](#)... - IET Renewable Power ..., 2015 - [ieeexplore.ieee.org](#)

Energy management and renewable energy integration in smart grid system
..., [AM Eltamaly](#), [HM Farh](#), [AI Alolah](#) - Smart Energy Grid ..., 2015 - [ieeexplore.ieee.org](#)

Transient performance of isolated induction generator under different loading conditions
[A Alsalloum](#), [AI Alolah](#)... - Systems, Signals & ..., 2014 - [ieeexplore.ieee.org](#)

Transient stability improvement of a grid-connected wind farm using doubly fed induction machine based flywheel energy storage system
[TA Taj](#), [HM Hasanien](#), [AI Alolah](#)... - 2014 IEEE PES Asia- ..., 2014 - [ieeexplore.ieee.org](#)

Erratum: Transient stability enhancement of a gridconnected wind farm using an adaptive neurofuzzy controlled-flywheel energy storage system
[TA Taj](#), [HM Hasanien](#), [AI Alolah](#), [SM Muyeen](#), 2014 - [ieeexplore.ieee.org](#)

A DSP-based implementation of an instantaneous current control for a three-phase shunt hybrid power filter
..., [A Hamadi](#), [K Al-Haddad](#), [AI Alolah](#) - ... and Computers in ..., 2013 - Elsevier

Steady State Modeling of Three Phase Self-Excited Induction Generator Under Unbalanced/Balanced Conditions
[A Alsalloum](#), [AI Alolah](#) - 2013 - [cdn.intechopen.com](#)

II) Latest Conferences

Fuzzy controller for three phases induction motor drives
[AM Eltamaly](#), [AI Alolah](#), [BM Badr](#) - ... International **Conference** on, 2010 - [ieeexplore.ieee.org](#)

Improving the dynamic performance of a grid-connected wind energy conversion system using flywheel energystorage system
[TA Taj](#), [HM Hasanien](#), [AI Alolah](#) - ... & Drives **Conference** (IEMDC ..., 2015 - [ieeexplore.ieee.org](#)

Design development of two phase transverse flux linear motor with permanent-magnet excitation
[R Meer](#), [HM Hasanien](#), [AI Alolah](#) - ... & Drives **Conference** (..., 2015 - [ieeexplore.ieee.org](#)

Criteria for comparison of energy efficient lamps
[AM Eltamaly](#), [AI Alolah](#), [NH Malik](#)... - Energy **Conference** ..., 2010 - [ieeexplore.ieee.org](#)

Transient performance of isolated induction generator under different loading conditions
[A Alsalloum](#), [AI Alolah](#)... - ... Multi-**Conference** on, 2014 - [ieeexplore.ieee.org](#)

Transient stability improvement of a grid-connected wind farm using doubly fed induction machine based flywheel energy storage system
[TA Taj](#), [HM Hasanien](#), [AI Alolah](#)... - ... **Conference** (APPEEC), 2014 - [ieeexplore.ieee.org](#)

A smart technique for optimization and simulation of hybrid photovoltaic/wind/diesel/battery energy systems
..., [MA Mohamed](#), [AI Alolah](#) - ... International **Conference** ..., 2015 - [ieeexplore.ieee.org](#)

Energy management and renewable energy integration in smart grid system
..., [AM Eltamaly](#), [HM Farh](#), [AI Alolah](#) - ... **Conference** on, 2015 - [ieeexplore.ieee.org](#)

Dynamic simulation of single phase transverse flux linear motor

R Meer, [HM Hasanien](#), [AI Alolah](#) - ... Energy **Conference** (IRSEC), 2014 - [ieeexplore.ieee.org](#)

Digital implementation of harmonics reduction of three-phase boost rectifier

[AM Eltamaly](#), [AI Alolah](#) - ... of 14th International **Conference** on ..., 2010 - [ieeexplore.ieee.org](#)

Isolated induction generator transients under different loading conditions

..., [RM Hamouda](#), [AI Alolah](#) - Energy **Conference** and ..., 2010 - [ieeexplore.ieee.org](#)

III) Highest Cited Publications (10+)

1- Capacitance requirement for isolated self-excited induction generator

[AK Al Jabri](#), [AI Alolah](#) - IEE Proceedings B-Electric Power ..., 1990 - [ieeexplore.ieee.org](#)

Cited by 174 Related articles All 8 versions

2- Optimization-based steady state analysis of three phase self-excited induction generator

[AL Alolah](#), [MA Alkanhal](#) - IEEE Transactions on Energy ..., 2000 - [ieeexplore.ieee.org](#)

Cited by 98 Related articles All 9 versions

3- Limits on the performance of the three-phase self-excited induction generators

[AK Al Jabri](#), [AI Alolah](#) - IEEE transactions on energy conversion, 1990 - [ieeexplore.ieee.org](#)

Cited by 92 Related articles All 6 versions

4- Performance of single phase induction generators

[YHA Rahim](#), [AI Alolah](#)... - IEEE transactions on ..., 1993 - [ieeexplore.ieee.org](#)

Cited by 80 Related articles All 11 versions

5- A DSP-based implementation of an instantaneous current control for a three-phase shunt hybrid power filter

..., [A Hamadi](#), [K Al-Haddad](#), [AI Alolah](#) - ... and Computers in ..., 2013 - Elsevier

Cited by 25 Related articles All 8 versions

6- Excitation requirements of three phase self-excited induction generator under single phase loading with minimum unbalance

[AI Alolah](#), [MA Alkanhal](#) - Power Engineering Society Winter ..., 2000 - [ieeexplore.ieee.org](#)

Cited by 24 Related articles All 6 versions

7- A capacitor start three phase induction motor

[MA Badr](#), [AI Alolah](#)... - IEEE transactions on ..., 1995 - [ieeexplore.ieee.org](#)

Cited by 21 Related articles All 4 versions

8- Fuzzy controller for three phases induction motor drives

[AM Eltamaly](#), [AI Alolah](#), [BM Badr](#) - Autonomous and Intelligent ..., 2010 - [ieeexplore.ieee.org](#)

Cited by 20 Related articles All 7 versions

9- Performance of grid-connected induction generator under naturally commutated ac voltage controller

..., [MA Abdel-Halim](#), [AI Alolah](#) - ... Power Components and ..., 2004 - Taylor & Francis

Cited by 16 Related articles All 4 versions

10- A three-phase neutral point clamped inverter for motor control

[AI Alolah](#), [LN Hulley](#)... - IEEE transactions on power ..., 1988 - [ieeexplore.ieee.org](#)

Cited by 16 Related articles All 5 versions

11- Capacitance requirements for three phase self-excited reluctance generators

[AI Alolah](#) - IEE Proceedings C-Generation, Transmission and ..., 1991 - [ieeexplore.ieee.org](#)

Cited by 16 Related articles All 4 versions

12- Transient performance of series connected three phase slip-ring induction motors

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Conference Contributions

	Conference	Place	Date
1	20 th UPEC conf	Huddersfield, England	April 85
2	IASTED conf	Lugano, Switzerland	June 87
3	IEEE PES Summer Meeting	Seattle-USA	July 1992
4	IEEE Melecon'94	Antalya-Turkey	April 1994
5	IEEE PES Summer Meeting	San Francisco-USA	July 1994
6	IEEE PES Summer Meeting	Denver-USA	July 1996
7	IEEE IEMDC'97	Milwaukee-USA	May 1997
8	IEEE PES Winter Meeting	Tampa-USA	Jan.-1998
9	ICEM'98	Istanbul-Turkey	Sep.-1998
10	IEEE PES Winter Meeting	New York-USA	Jan-1999
11	IEEE IEMDC'99	Seattle-USA	May 1999
12	IEEE PES Winter Meeting	Singapore	Jan.-2000
13	ICEM'2000	Helsinki, Finland	Aug.-2000
14	IEEE CCECE	Toronto-Canada	May-2001
15	IEEE IEMDC'01	Cambridge-USA	June-2001
16	IEEE Acemp'01	Kusadasi-Turkey	June-2001
17	ELECTRIMACS 2002	Montreal-Canada	Aug.-2002
18	IEEE Acemp'04	Istanbul-Turkey	May-2004
19	IEEE SSD'05	Sousse - Tunisia	March-2005
20	ELECTRIMACS 2005	Hammamet - Tunisia	April-2005
21	ICREPQ'06	Malorca, Spain	April-2006
22	ICEM'2006	Chania, Greece	Sep.-2006
23	IEEE IEMDC'07	Antalya-Turkey	May-2007
24	IEEE Acemp'07	Bodrum-Turkey	Sep.-2007
25	IEEE AUPEC 08	Australia	Dec. 2008
26	Power Electronics and Power Eng.	Paris, France	June 2009
27	IEEE Speedam'10	Pisa, Italy	June 2010
28	Harmonics and Quality of Power	Bergamo, Italy	Sept. 2010
29	IEEE ISIE'11	Gdansk, Poland	June 2011
30	Smart Energy Grid Engineering	Oshawa, Canada	August 2015

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- J13- **A.I. Alolah** and M.A. Alkanhal, "Optimization-Based Steady State Analysis of Three Phase Self-Excited Induction Generator", IEEE Trans., Vol. EC-15(1), 2000, pp.61-65.

(b) IEE Proceedings

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- J15- **A.I. Alolah**, "Capacitance Requirements for Three Phase Self-Excited Reluctance Generators", IEE Proc., Part C, Vol.138(3), 1991, pp.193-198.
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- C23- M. E. Haque, A. A. Bokhari and **A.I. Alolah** "Simulink Modeling of the Problem Associated with Fast Switching PWM IGBT-Inverter Fed AC Motor Drive with Long Cable and Its Remedies", IEEE Third International Conference on Systems, Signals & Devices, March 2005 – Sousse, Tunisia.
- C24- **A.I. Alolah** and Ali M. Eltamaly and R. M. Hamouda "Control Limits of Three-Phase AC Voltage Controller under Induction Motor Load" Conf. Proc. of IEEE, International Conference on Electrical Machines, ICEM06, Chania, Crete Island, Greece, Sept. 2006.
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- C27- **A.I. Alolah** and M.A. Alkanhal,"Performance Evaluation of Three-Phase Induction Motor under Different AC Voltage Control Strategies ' Part II", IEEE Acemp07 conf., Bodrum, Turkey, Sep.- 2007.

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