

CURRICULUM VITAE

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Place of Birth: Assiut, Egypt

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Other name formats: [Mohamed, Abdel Baset A.](#) [Mohamed, A. B.A.](#) [Mohamed, Abdel Basset A.](#) [Abdel-Baset, A. Mohamed](#)
[Mohamed, A. B.](#)

Subject area: [Physics and Astronomy](#) [Mathematics](#) [Engineering](#) [Materials Science](#) [Computer Science](#)
[Chemistry](#) [Multidisciplinary](#)

Documents by author

99

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Total citations

635 by 206 documents

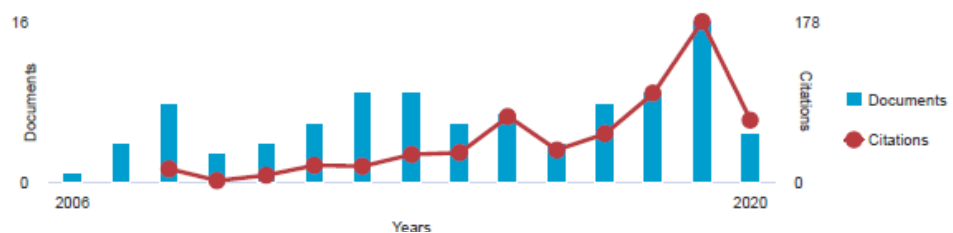
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Document and citation trends:



Educationa:

- Bachelor of Science (Physics) South Valley university, Egypt, 1992-1996.
- Bachelor of Science (Mathematics) Assuit University, Egypt, 1999-2002.
- Master of Science (Applied Mathematics), Assuit University, Egypt, 2003-2006.
- Doctor of Philosophy in Mathematics (Applied Mathematics-Quantum Information) Assuit University, Egypt, 2006 -2009.

Academic Positions:

- Professor of Mathematics, Assuit University, Egypt, 9-2019-present.
- Professor of Mathematics, Prince Sattam Bin Abdulaziz Un., KSA, 10-2018-present.

- Associate Professor of Mathematics, Prince Sattam Bin Abdulaziz Un., KSA, 2014-2018.
- Associate Professor of Mathematics, Prince Sattam Bin Abdulaziz Un., KSA, 2011-2014.
- Assistant Professor of Mathematics, Assuit University, Egypt, 2009-2011.
- Assistant Lecturer of Mathematics, Maths. Dept., Faculty of Science, Assuit Univ, 2006-2009.
- Demonstrator in Maths. Dept., Faculty of Science, Assuit Univ., Egypt, 2002-2006.

Membership Of Scientific Societies:

- 1- Assistant Coordinator in QAAU of Faculty of Science, Assiut University
- 2- Egyptian Mathematical Society.
- 3- Mathematical and Physical Society of Egypt.

Prizes.

- 1- Prize of the Egyptian Mathematical Society for the best Master thesis (2008)
- 2- Prize of the Egyptian Mathematical Society for the best Ph.D. thesis (2010)
- 3- Assiut University Prize for best PhD thesis in Basic Science (2010).
- 4- 2-Prize of Prof. Mohammed Amean Lotfy, Academy of Scientific Research and Technology (2011).
- 5- Prize of the National Committee of Mathematics, Egyptian Academy of Sciences and Technologies, Egypt (2012).
- 6- The State Incentive Award in Mathematal Sciences, Egypt, 2015
- 7- Prize of Prof. Mohammed Amean Lotfy, Academy of Scientific Research and Technology (2017).

Conferences:

- 1- The Second International Conference in Mathematics ICMTD07, Egyptian Mathematical Society, Cairo, 27-30, December, 2007.
- 1- The First Annual Conference for Young Scientists "Basic Science and Technology " Faculty of Science, Assiut University, May 5-6, 2007.
- 2- The Second Annual Conference for Young Scientists "Basic Science and Technology " Faculty of Science, Assiut University, October,18-19, 2008.
- 3- International Conference on Mathematics and Information Security(ICMIS) at Sohag university (13-15 November 2009)
- 4- The Third Annual Conference for Young Scientists "Basic Science and Technology " Faculty of Science, Assiut University, October,18-19, 2010.
- 5- 8th International Conference Mathematics and Information Sciences 8-10 Feb. 2019, Egypt

Computer Skills:

Programming with Fortran and Matlab -Writing with Word and WinEdit.

Contribution to teaching the following courses:

- Quantum Mechanics, Quantum Optics, Analysis Mechanics, Applied Maths.
- Algebra (Introductory), Linear Algebra
- Calculus, Advanced Calculus, Differential Equations
- Analytical Geometry (Planar and Solid), Special Functions
- Computer Science as Microsoft Office (Word, Excel, Power Point) and Programming Languages (Basic, Fortran, Matlab Programs).

Related Professional Experience

- A)- Attained and satisfactorily completed the following training programs organized by the FLDC (Faculty and leadership development center)(http://us.geocities.com/fldp_assiut):
- 1- Effective Teaching, from 16 to 20 July 2005
 - 2- Teaching with Technology, from 27 to 30 August 2005
 - 3- Ethics and curtsies of the vocation, from19 to 21 June 2006
 - 4- Skills of the thinking from 2 to 4 September 2006
 - 5- Effective offer skills from 16 to 18 September 2006
 - 6- Effective communication skills from 7 to 9 October 2006 .
 - 7- Accredited Hours System from 1 to 3 Marsh 2008.
 - 8- E-Learning, from 21 to 23 February 2009.

- 9- International Publishing of Research from 21 to 23 February 2009.
- 10- Research Team Management from 4 to 6 April 2009.
- 11- How to Complete for a Research Fund from 11 to 13 April 2009.
- 12- Legal Financial Aspects in University Environment from 1 to 3 June 2009.
- 13- Conference Organization from 5 to 7 June 2010 .
- 14- Strategy Planning, from 24 to 26 July 2010.
- 15- Quality Standards in Teaching from 18 to 20 December 2010.
- B)- Training workshop organized by College of Science & Humanitarian Studies, Salman Bin Abdulaziz University.
- 16- Programs and Courses Specifications and Reports, 18-17 October 2011.
- 17- Program Self Study 29 October 2011.
- 18- Good Examination Specifications 27 December 2011.
- 19- Description of Field Experience 16 April 2012.
- 20- SPSS- Statistical analysis, 30/11/2014.
- 21- Skills of the academic advisor 20/3/2016

Field of Interest

- Interaction between atomic system with some states of light.
- Influence of noise on quantum coherence and entanglement generation in quantum information
- Study of the dynamics of these real physical models with presence of quantum dissipation is an open point.
- The effect of the dissipation on the systems which have multi-level qubit.
- The effect of the dissipation on the systems which have multi two-level qubits.
- Quantum information and computation.

References

1-Prof. Abdel-Shafy F. Obada

- Faculty of Science, Al-Azhar University (Cairo)
- Manchester Univ. UK 1994 D. Sc. - UMIST, Manchester, UK 1964-7 Ph. D.(Maths)
- Email: obada@mail.scu.eun.eg or obada75@hotmail.com

2- Ass. Prof. Hosney A. Hessein

- Faculty of Science, Assiut University, Assiut, Egypt Ph. D .(Maths)
- Email:ammar_67@yahoo.com

3-Prof. Mahmoud M. Abdel-Aty

- Faculty of Science, Sohag University, 82524 Sohag, Egypt - D. Sc. And Ph. D.(Maths)
- Email: abdelatyquantum@gmail.com or abdelatyquant@yahoo.co.uk

Publications:

(a) Book

1-Abdel-Baset A. Mohamed, Abdel-Shafy F. Obada, Hosney A. Hessein Quantum, "Decoherence and Entanglement in Quantum Information", LAP LAMBERT Academic Publishing (October 17, 2011)

(b) International Refereed Journals

2006

[1] A.-S. F. Obada, H. A. Hessian and **A.-B. A. Mohamed**, Sub-entropies and phase properties undergoing the effects of atomic motion for the Jaynes–Cummings model with initial mixed state input, *International Journal of Quantum Information*, 4 (2006) 871

2007

[2] A.-S. F. Obada, F. A. Mohammed, H. A. Hessian and **A.-B. A. Mohamed**, Entropies and entanglement for initial mixed state in the multi-quanta JC model with the Stark shift and kerr-like medium, *International Journal of Theoretical Physics*, 46 (2007) 1027.

- [3] A.-S. F. Obada, H. A. Hessian and **A-B A Mohamed**, Entropies and entanglement for decoherence without energy relaxation in a two-level atom, *J. Phys. B: At. Mol. Opt. Phys.* 40 (2007) 2241.
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- [6] Hosny A. Hessian and **A.-B. A. Mohamed**, Entropy and degradation of entanglement due to damping of the atomic decay in the Jaynes-Cummings model, *International Conference on Mathematics Trends and Developments*, (2007).

2008

- [7] A.-S. F. Obada, H. A. Hessian and **A-B A. Mohamed**, Combined effect of dissipation and thermal mixed state on entanglement in the dispersive limit, *Chin. Phys. Lett.* 25 (2008) 949.
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- [15] Hosny A. Hessian and **A-B A. Mohamed**, Quasiprobability distribution functions for a single trapped ion interacting with mixed laser field, *Laser Physics*, 18 (2008) 1217.

2009

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2011

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2014

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2015

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2016

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2017

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2018

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2019

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- [95] Nonclassical Correlations Beyond Bell's Inequality Violation In Two Qubits Interact With a Coherent Harmonic Oscillator Due to intrinsic Noise, **A-B A Mohamed** and **H. Eleuch**, *Physics* **15 (2019) 102780**
- [96] Influence of the Coupling between Two Qubits in an Open Coherent Cavity: Nonclassical Information via Quasi-Probability Distributions, **A.-B. A.Mohamed**, H. Eleuch, A.-S. F. Obada, *Entropy* 21 (2019) 1137.
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العلاقات العامة



تهنئة

أسرة كلية العلوم تتقدم بأصدق التهاني القلبية

للسيد الأستاذ الدكتور / على محمد صديق عبد اللاه
لتعيين سيادته في وظيفة أستاذ الرياضيات البحتة / تحليل دالى / بقسم الرياضيات بالكلية .

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وأسرة الكلية تتمنى لسيادتهم دوام التقدم والترقى .

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