

السيرة الذاتية المختصرة

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H-index: 39 (SCOPUS)

Citations 3780

<https://www.scopus.com/authid/detail.uri?authorId=7006423554>

الموقع الإلكتروني: www.abdelaty.com/ar

مجمل الانتاج العلمي: نشر 255 بحث في مجلات عالمية علمية محكمة، 177 مشاركة في مؤتمرات دولية وورش عمل دولية ومحلية، كتابين منشورين في دور نشر عالمية، 13 فصل في كتب عالمية، محكم علمي للعديد من مجلات الرياضيات التطبيقية وطرق تدريسها في العالم- عدد 4 براءات اختراع تم المنح من الولايات المتحدة الامريكية

اللغات الاجنبية : اللغة الإنجليزية (جيدة جدا) – اللغة الألمانية (جيدة) - الفرنسية (جيدة)

1.1. المؤهلات العلمية

السنة الدرجة العلمية

1999	دكتوراه في فلسفة العلوم (Ph. D.) - المعلوماتية الكمومية- إشراف مشترك – معهد ماكس بلانك - المانيا
2007	دكتوراه في العلوم (D. Sc.) – المعلوماتية الكمومية
1995	ماجستير في ميكانيكا الكم (M. Sc.) جامعة سوهاج
1990	بكالوريوس في العلوم (B. Sc.) – (بتقدير عام ممتاز مع مرتبه الشرف) جامعة اسيوط

1.2. الوظائف والمهام

الفترة الوظيفة أو المهمة

2022	--	عميد الجامعة الأهلية للدراسات العليا والبحث العلمي – مملكة البحرين (قائم بالعمل)
2022	--	نائب رئيس الاتحاد الأفريقي للرياضيات
2018	2020	رئيس اللجنة الوطنية للرياضيات – أكاديمية البحث العلمي والتكنولوجيا – مصر
2018	----	مستشار رئيس مدينة زويل للبحث العلمي والدراسات العليا
2018	----	مستشار جامعة العلوم التطبيقية للبحث العلمي – البحرين

2018	-----	مدير مركز العلاقات الدولية - جامعة سوهاج
2017-2018	2018	عميد جامعة العلوم التطبيقية للبحث العلمي والدراسات العليا - البحرين
2018	-----	مدير مشروع معامل التأثير العربي - إتحاد الجامعات العربية
2013-2020	2020	نائب رئيس أكاديمية العلوم الافريقية - نيروبي - كينيا
2017-2022	2022	رئيس لجنة الرياضيات والتربية بالاتحاد الافريقي للرياضيات
2014-2017	2017	رئيس قسم الرياضيات - مدينة زويل للعلوم والتكنولوجيا - مصر
2005	2014	رئيس القسم الاكاديمي بمركز النشر العلمي - جامعة البحرين - البحرين
2009	-----	أستاذ بقسم الرياضيات - كلية العلوم - جامعة سوهاج (ميكانيكا الكم والمعلوماتية الكمية)
2004	2009	أستاذ مشارك بكلية العلوم بسوهاج - مصر
2001	2003	باحث زائر بجامعة فلنسبورج - معهد الرياضيات وطرق التدريس - المانيا
1999	2004	مدرس بكلية العلوم بسوهاج جامعة جنوب الوادي - مصر
1997	1999	باحث لدرجة الدكتوراه في معهد ماكس بلانك - ميونخ - ألمانيا
1992	1995	مدرس مساعد بقسم الرياضيات - كلية العلوم بسوهاج، جامعة أسيوط - مصر

1.3. الجوائز والتكريم

السنة	الجائزة
2021	جائزة الدولة التقديرية في العلوم التكنولوجية المتقدمة
2009	جائزة الدولة للتفوق العلمي في العلوم الاساسية
2003	جائزة الدولة التشجيعية من اكااديمية البحث العلمي والتكنولوجيا
2018	جائزة الشيخ محمد بن راشد للغة العربية - فئة افضل مبادرة في السياسة اللغوية والتخطيط

- 2017 **جائزة إدارة المعرفة والمعلوماتية** – أكاديمية البحث العلمي والتكنولوجيا – مصر
- 2021 **الاقامة الذهبية وبطاقة الهوية الإماراتية** فئة العلماء الموهوبين (الامارات العربية المتحدة)
- 2017 **رئيس لجنة الرياضيات والتربية** الاتحاد الافريقي للرياضيات
- 2017 **عضو مجلس إدارة جمعية الرياضيات المصرية**
- 2013 **الانتخاب كنائب رئيس أكاديمية العلوم الافريقية** – نيروبي – كينيا
- 2004 **عضو اللجنة القومية للاتحاد الدولي للرياضيات** – أكاديمية البحث العلمي والتكنولوجيا
- 2012 **الانتخاب كزميل لأكاديمية العلوم الافريقية** – نيروبي – كينيا
- 2005 **منحة التميز العلمي** – جامعة بول سباتير – فرنسا
- درجة الجدارة** من اللجنة العلمية لترقيات الاستاذة والاستاذة المساعدین
- 2007 **جائزة الاستاذة الدكتورة فايزه الخرافي** عام 2009 م في الفيزياء.
- 2007 الاختيار ضمن **قادة العالم الاسلامي و علماء الصدارة** في العلوم والهندسة الذي أصدرته منظمة المؤتمر الاسلامي (الكومستيك 2007 م) تحت عنوان " قادة العالم الاسلامي في العلوم والهندسة في العشر سنوات الأخيرة ، برصيد 1302 نقطة ، (منظمة المؤتمر الاسلامي التي تضم ستون دولة).
- 2005 **جائزة عبدالحميد شومان** في الرياضيات للباحثين العرب (الاردن) 2005 م.
- 2007 **جائزة اكاديمية العالم الثالث** للرياضيات المدعمة من (معهد الفيزياء النظرية بايطاليا).
- 2003 **جائزة أمين لطفي في العلوم الاساسية** (رياضيات).
- 2004 حصول ثلاثة بحوث من البحوث المنشور في معهد الفيزياء الامريكي سنة 2003 م و 2004 م وجمعية الفيزياء الامريكية 2007 م على أنهم من أحسن البحوث التي نشرت في مجال المعلوماتية الكمية وتكنولوجيا النانو وتمت إعادة نشرهم في مجلات النخبة بجمعية الفيزياء الأمريكية و11 دار نشر أخرى

- 2007 رئيس تحرير المجلة العالمية للرياضيات التطبيقية وعلوم المعلوماتية (التي تنشر بالولايات المتحدة الامريكية)
- 2004 اختيار **صورة الغلاف لمجلة جمعية الضوء الأوربية** والتي يصدرها معهد الفيزياء البريطاني (العدد الرابع (أبريل 2004 م)) من أحد نتائج J. Opt. B 6,201
- 2006 الاختيار كمستشار لمعمل ادارة التحكم والامان للمعلومات (Quantum Computer) بماليزيا 2006 م
- 1990 الحصول على المركز الأول على دفعة 1990 م بكلية العلوم بسوهاج (تقدير عام ممتاز مع مرتبة الشرف).
- 1989 الحصول على المركز الأول على مستوى الجامعة (فرع سوهاج) في مسابقة المعلومات 1989 م .

1.4. الإشتراك في أسر تحرير الدوريات العلمية المفهرسة في سكوبس

- [1] رئيس تحرير مجلة الرياضيات التطبيقية وعلوم المعلوماتية المصنفة في سكوبس
Applied Mathematics & Information Sciences <https://www.scopus.com/sourceid/2110019792>
- [2] نائب رئيس تحرير مجلة الهندسة بجامعة الاسكندرية المصنفة في سكوبس و كلاريفيت
Alexandria Engineering Journal <https://www.scopus.com/sourceid/13907>
- [3] محرر في مجلة العلوم غير الخطية وتطبيقاتها المصنفة في سكوبس و كلاريفيت
Journal of Nonlinear Science and Applications <https://www.scopus.com/sourceid/21100399105>
- [4] محرر في مجلة النماذج الرياضية المتقدمة وتطبيقاتها المصنفة في سكوبس
Advanced Mathematical Models & Applications <https://suggestor.step.scopus.com/progressTracker/?trackingID=6C93A8F11A021AE0>
- [5] المحرر المؤسس لمجلة التحليل الكسرى وتطبيقاته المصنفة في سكوبس
Progress in Fractional Differentiation and Applications <https://www.scopus.com/sourceid/21100871775>
- [6] المحرر المؤسس لمجلة خطابات علوم المعلوماتية المصنفة في سكوبس
Information Science Letters <https://www.scopus.com/sourceid/21100970313>

- [7] محرر في مجلة العرب العالمية للرياضيات التطبيقية والعلوم الرياضية (التي تصدر بالاردن)
Arab Journal of Mathematics and Mathematical Sciences <https://www.ripublication.com/ajmms.htm>
- [8] محرر في مجلة جمعية الرياضيات المصرية – التي تصدر عن دار نشر عالمية
Journal of the Egyptian Mathematical Society <https://joems.springeropen.com/>
- [9] محرر في مجلة الحدود في البحث العلمي والتكنولوجيا
Frontiers in Scientific Research and Technology <https://fsrt.journals.ekb.eg/>
- [10] محرر في المجلة العالمية للرياضيات الحديثة 2008-2006 .
International Journal of Modern Mathematics
- [11] محرر في المجلة العالمية الانتروبي (عدد خاص نظم المعلومات الكمية) ومصنفة في سكوبس و كلاريفيت
Entropy <https://www.mdpi.org/entropy/specialissues/entanglement.htm>
- [12] محرر في مجلة العرب العالمية للرياضيات التطبيقية والعلوم الرياضية
Arab Journal of Mathematics and Mathematical Sciences
- [13] محرر في المجلة العالمية لعلوم الرياضيات والتطبيقات الهندسية (التي تصدر بالهند)
Journal of Mathematical Sciences and Engineering Applications

1.5. مشروعات بحثية ممولة ذات مردود مجتمعي						
م	عنوان المشروع	الجهة الممولة	المستفيد	تاريخ التنفيذ	التكلفة الكلية	دور المرشح
1	تصميم وتنفيذ غرفة التعقيم المتنقلة للإنتاج الكمي " مشروع رقم 7192	أكاديمية البحث العلمي والتكنولوجيا	الجامعة اليابانية	2020	100000	Co-PI

Co-PI	500000	2004	جامعة سوهاج	HEEP	مشروع تحويل مقررات كلية الطب بسوهاج الى مقررات الالكترونية	2
PI	---	2007 الى الان	الباحثين العرب	اتحاد الجامعات العربية	مشروع معامل التأثير العربي 2007 الى الان	3
PI	50000 \$	2010	جامعة البحرين	وزارة الصحة بمللكة البحرين	إنشاء مؤشر رياضي للتنبؤ بالانتشار الامراض المعدية : نموذج رياضي لتقدير حجم انتشار فيروس H1N1 في مملكة البحرين - مشروع رقم UOB93	4
PI	65000\$	2018	جامعة العلوم التطبيقية البحرين	جامعة العلوم التطبيقية- البحرين	مشروع تطبيقات النشر العلمي	
PI	\$1000	2014	جامعة سوهاج	الدولية للتعليم والبحث العلمي	اتجاهات جديدة في الترميز الكمي وذاكرة التخزين عن طريق دوائر الرنين النانو ميكانيكية	5
PI	\$2000	2014	جامعة سوهاج	أكاديمية العلوم الافريقية	مشروع المعلوماتية الكمية وتطبيقاتها	6
Co-PI	25000D -UAE	2019	جامعة ابو ظبي	جامعة ابو ظبي	Quantum Information and Its Application	7
PI	25000	2015	مدينة زويل للعلوم والتكنولوجيا	أكاديمية البحث العلمي والتكنولوجيا	تمويل مؤتمر دولي في الرياضيات وعلوم المعلومات	8
PI	5000	2014	جامعة سوهاج	جامعة الشارقة	مشروع تطوير الحاسبات الكمية	9
PI	E12000 ur	2007	جامعة سوهاج	ERASMUS	تمويل مشروع بحثي عن الذاكرة الكمية والكمبيوتر الكمي (جامعة لوند - السويد)	10

قائمة البحوث المنشورة

No.	Authors	Title	Journal Name	Impact Factor
Summation of the total Impact Factor				
1.	X. Lv; J. Cao; X.i Li, M. Abdel-Aty ; U. Ali Al-Juboori	<i>Synchronization Analysis for Complex Dynamical Networks With Coupling Delay via Event-Triggered Delayed Impulsive Control</i>	IEEE Transactions on Cybernetics , Vol. 51, No. 11, (2021): 5269-5278 DOI: 10.1109/TCYB.2020.2974315	11.448
2.	Sun W., Zheng H., Guo W., Xu Y., Cao J., Abdel-Aty M., Chen S.	Quasisynchronization of Heterogeneous Dynamical Networks via Event-Triggered Impulsive Controls	IEEE Transactions on Cybernetics Vol. 52, No. 1, (2022) 228 - 2391 DOI: 10.1109/TCYB.2020.2975234	11.448
3.	L. Chen; J, Cao, M. Abdel-Aty	<i>Intermittent Event-Triggered Optimal Leader-Following Consensus for Nonlinear Multi-Agent Systems Algorithm</i>	IEEE Trans Neural Netw Learn Syst. 2021 PMID: 34723816 DOI: 10.1109/TNNLS.2021.3122458	10.451
4.	M. Zidan, A. Abdel-Aty, A. Khalil; M. Abdel-Aty ; H. Eleuch	<i>A Novel Efficient Quantum Random Access Memory</i>	IEEE Access , Vol. 9 pp. 151775-151780 (2021) DOI: 10.1109/ACCESS.2021.3119588	3.745
5.	Mohamed, R.I., Eldin, M.G., Farouk, A., Ramadan, A.A., Abdel-Aty, M.	<i>Quantum computational speed of a nanowires system with Rashba interaction in the presence of a magnetic field</i>	Scientific Reports , 2021, 11(1), 22726 DOI 10.1038/s41598-021-02051-2	4.379
6.	A. Homid, M. Abdel-Aty , Qasymeh, H. Eleuch,	<i>Efficient quantum gates and algorithms in an engineered optical lattice</i>	Scientific Reports , 2021, 11(1), 1540 DOI: 10.1038/s41598-021-94929-4	4.379
7.	Xiao-Jun Yang . Jian-Gen Liu . M. Abdel-Aty	<i>On the theory of the fractal scaling-law elasticity</i>	Meccanica 2021 DOI: 10.1007/s11012-021-01405-4	2.258

8.	Ahmad N. KhedrAli H. HomidAbdel-Baset A. MohamedAbdel-Haleem Abdel-AtyHichem EleuchMahmoud TammamMahmoud Abdel-Aty	Robust thermal correlations induced by spin-orbit interactions Author links open overlay panel	Results in Physics 38 (2022) 105619 DOI: 10.1016/j.rinp.2022.105619	4.476
9.	M. Zidan, M. G. Eldin, M. Y. Shams, M. Tolan, A. Elhamed and M. Abdel-Aty	<i>A Quantum Algorithm for Evaluating the Hamming Distance</i>	Computers, Materials & Continua (2022) 71(1) , pp. 1065–1078 DOI:10.32604/cmc.2022.020103	3.70
10.	Ahmad. N. Khedr, A.-B. A. Mohamed *, Abdel-Haleem Abdel-Aty, M. Tammam, M. Abdel-Aty , Hichem Eleuch	<i>Entropic uncertainty for two coupled dipole spins using quantum memory under the Dzyaloshinskii-Moriya interaction</i>	Entropy 2021, 23(12), 1595; DOI: 10.3390/e23121595	2.524
11.	Barakat, E., Abdel-Aty, M. , El-Kalla, I.L.	<i>Hyperchaotic and quasiperiodic behaviors of a two-photon laser with multi-intermediate states</i>	Chaos, Solitons and Fractals , 2021, 152, 111316 DOI: 10.1016/j.chaos.2021.111316	3.764
12.	A.-B.A.Mohamed. M. Abdel-Aty , H.Eleuch	<i>Bures and trace-distance correlations of quantum wells in open microcavities linked by an optical waveguide</i>	Optik - International Journal for Light and Electron Optics 225 (2021) 165744 DOI: 10.1016/j.ijleo.2020.165744	2.187
13.	Alqarni, M., Mahmoud, E.E., Abdel-Aty , Trikha, P., Jahanzaib, L.S.	<i>Fractional chaotic cryptovirology in blockchain - analysis and control</i>	Chaos, Solitons and Fractals , 2021, 148, 110989 DOI: 10.1016/j.chaos.2021.110989	3.764
14.	Wei, R., Cao, J., Abdel-Aty, M.	<i>Fixed-Time Synchronization of Second-Order MNNs in Quaternion Field</i>	IEEE Transactions on Systems, Man, and Cybernetics Systems , 2021, 51, 3587–3598, DOI: 10.1109/TSMC.2019.2931091	07.613
15.	Lin, L., Cao, J., Abdel-Aty, M. , Al-Juboori, U.A.	<i>Topological Structure, Reachability, and Stabilization of Constrained Boolean Control Networks via Event-Triggered Control</i>	IEEE Transactions on Systems, Man, and Cybernetics: Systems , 2021, 51(6), 3565–3574, 8799008	07.613

			DOI: 10.1109/TSMC.2019.2931363	
16.	Mohamed, R.I., Eldin, M.G., Sakr, M.Ramadan, A.A., Abdel-Aty, M.	<i>Entanglement of a Nanowires System with Rashba Interaction</i>	International Journal of Theoretical Physics , 2021, 60(5), pp. 1651–1661 DOI: 10.1007/s10773-021-04755-7	0.90
17.	Houssein, E.H., Mahdy, M.A., Eldin, M.G., Mohamed, W.M., Abdel-Aty, M.	<i>Optimizing quantum cloning circuit parameters based on adaptive guided differential evolution algorithm</i>	Journal of Advanced Research , 2021, 29, pp. 147–157 DOI: 10.1016/j.jare.2020.10.001	10.60
18.	Singh, T., Dubey, R., Mishra, V.N., Abdel-Aty, M.	<i>Modeling of diffusive patterns in predator–prey system using turing instability and amplitude equations</i>	Information Sciences Letters , 2021, 10(1), pp. 5–16 DOI: 10.18576/isl/100102	
19.	P. Trikha, E. Mahmoud, L.Jahanzaib, R.Matoog. M. Abdel-Aty	<i>Fractional order biological snap oscillator: Analysis and control</i>	Chaos, Solitons & Fractals , Volume 145 , April 2021, 110763 DOI: 10.1016/j.chaos.2021.110763	3.764
20.	Salah, R., Anwer, M.M., Abdel-Aty, M.	<i>Pancharatnam phase of non-hermitian hamiltonian</i>	Information Sciences Letters , 2021, 10(1), pp. 25–32	
21.	M. Zidan H.Eleuch and M. Abdel-Aty	<i>Non-Classical Computing Problems: Toward Novel Type of Quantum Computing Problems</i>	Results in Physics, 3 November 2021 Volume 21, February 2021, Article number 103536 DOI: 10.1016/j.rinp.2020.103536	3.042
22.	H. Zhang, Z. Qiu, J. Cao, M. Abdel-Aty and L. Xiong	<i>Event-triggered synchronization for neutral-type semi-Markovian neural networks with partial mode-dependent time-varying delays</i>	IEEE Transactions on Neural Networks and Learning Systems , Vol, 31, No. 11 , (2020) 4437 - 4450 DOI: 10.1109/TNNLS.2019.2955287	8.793
23.	Zengyun Wang, Jinde Cao, Zuowei Cai, and M. Abdel-Aty	<i>A novel Lyapunov theorem on finite/fixed-time stability of discontinuous impulsive systems</i>	Chaos 30, 013139 (2020); https://doi.org/10.1063/1.5121246	2.832

24.	S. Kumar, J. Cao, M. Abdel-Aty	<i>A novel mathematical approach of COVID-19 with non-singular fractional derivative</i>	Chaos, Solitons and Fractals 139 (2020) 110048 https://doi.org/10.1016/j.chaos.2020.110048	3.764
25.	W. Sun; H. Zheng, W. Guo, Y. Xu, J. Cao, M. Abdel-Aty	<i>Quasisynchronization of Heterogeneous Dynamical Networks via Event-Triggered Impulsive Controls</i>	IEEE Transactions on Cybernetics (2020) https://doi.org/10.1109/TCYB.2020.2975234	11.079
26.	E. H. Houssein, M. Mahdyb, M. G. Eldinc, D. Sheblb, W. Mohameda, M. Abdel-Aty	<i>Optimizing quantum cloning circuit parameters based on adaptive guided differential evolution algorithm</i>	Journal of Advanced Research (2020) https://doi.org/10.1016/j.jare.2020.10.001	5.460
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