

# CURRICULUM VITAE

**Prof. Dr. Abdel Rahman Abdel Raouf AHMED**

**Date of Birth** December 2 th 1964  
**Nationality** Egyptian  
**Employ** Head Researchers of Agricultural Engineering

**Home Address** 11, 10 St., From Hasan Atia St., Bhteem, Shobra El-Khima City, Post of no 13211, Kaluobia Government, Egypt  
**Tel. Home** 002 – 02 –48254412  
**Mobile** 010 - 4314922  
**Email** a\_abdo\_a2000@hotmail.com  
**Work address** (Agricultural Engineering Research Institute )  
Nadi El-Said St., Dokki City, Giza Government, Egypt P.O.  
Box 256 Dokki, Giza, Egypt  
**Tel. Work** 002 – 02 - 33375853  
**Fax Work** 002 – 02 - 33356867  
**Email work** Aenriarc@yahoo.com

## EDUCATION

### **FACULTY OF AGRICULTRE, AIN SHAMS UNIVERSITY**

*Cairo, Egypt*

Bachelor of Agriculture Science, Agriculture engineering department, Graduated in 1987

### **FACULTY OF AGRICULTRE, ZAGAZIG UNIVERSITY**

*Cairo, Egypt.*

Master degree of Agriculture Science, Dept of agriculture Engineering, Graduated in 1996

### **INSTITUTE OF AGRICULTRE AGRONOMY MEDITERRANEAN**

*Bari, Italy.*

Master degree of Agriculture Science, Dept of agriculture Engineering, Graduated in 2000

### **FACULTY OF AGRICULTRE, ZAGAZIG UNIVERSITY**

*Cairo, Egypt.*

Doctor degree of Agriculture Science, Dept of agriculture Engineering, Graduated in 2002

## COURSES AND TRAINING

### **AGRICULTURAL ENGINEERING RESEARCH INSTITUTE**

*Cairo, Egypt 1988*

- Application of mechanization agriculture
- Levelling of land agriculture by using Laser

### **AGR. ENGINEERING RESEARCH INSTITUTE DEP. OF COMPUTER**

*Cairo, Egypt 1989*

- Training of software computer
- Analysis of data (Tables, Graphics and Statistical) using computer

### **STARCH AND GLOCOSE COMPANY**

*Cairo, Egypt. 1992*

- Tech. of storage grain in silos, preparing sulphur in industrial,
- Technology of steeping corn.
- Technology separation germ, hull fiber and starch of protein corn
- Technology drying of germ and starch and Hull.

**AGR. ENG. RESEARCH INSTITUTE, DEPT. OF IRRIGATION**  
***Cairo, Egypt 1994***

- Surface irrigation development
- Drip and sprinkler irrigation
- Maintenance and operation of modern irrigation systems

**INTERNATIONAL AGRICULTURAL CENTER**  
***Cairo, Egypt. 1996***

- Technology cultivation of rice

**BIOGAS OF TRAINING CENTER IN MOSHTOHOR**  
***Kaluobia , Egypt 1996***

- Building and operation Biogas units

**HICO IN JAPAN**  
***Obihiro, Japan 1997***

- Automation of agricultural Machinery
- Z 80 Microprocessor & C language computer

**AGRICULTURAL RESEARCH CENTER**  
***Egypt 1997***

Safety and quality factors of vegetables export

**INSTITUTE AGRONOMIC MEDITERRANEAN**  
***Bari, Italy 1999***

- Fundamental irrigation (water quality, unconventional water, water treatments and west water)

**AGRICULTURAL RESEARCH CENTER**  
***Central lab for statistical, Egypt 2001***

- Utilization computer software for statistical and experimental analysis

**AGRICULTURAL RESEARCH CENTER**  
***Central lab for agricultural prod casting, Egypt 2002***

- Modification of the weathering

**AGRICULTURAL RESEARCH CENTER**  
***Central lab for agricultural prod casting, Egypt 2003***

- Vegetables production above house floors

**AGRICULTURAL RESEARCH CENTER**  
***Agricultural engineering Research Institute, Egypt 2004***

- Safety factors in agricultural field

***National Science Laser, Cairo University, Egypt 2007 – till now***

- Teaching Courses of Laser Application in Agricultural Engineering  
 For Diploma , Master , Doctoral Degrees of Students

**WORK EXPERIENCE**

**AGRICULTURE ENGINEERING RESEARCH INSTITUTE**  
***Cairo, Egypt 1987 –1990***

- Application of agriculture mechanization
- Leveling of land using Laser
- Application of computer software

## **STARCH AND GLOGOSE COMPANY**

***Cairo, Egypt 1990 – 1992***

- Technology of storage grains in silos
- Technology of preparing sulfur in industrials
- Technology steeping corn
- Technology separation Germ, Hull, Fiber corn
- Industrial starch from protein corn
- Drying starch, germ, hull of corn and corn and rice

## **AGRICULTURE ENGINEERING RESEARCH INSTITUTE**

***Cairo, Egypt 1992 – 1998***

- Technology cultivation of rice
- Operation of different software computer
- Saline water in irrigation of faba bean.
- Automation in agricultural machinery
- Application of computer software

## **AGRICULTURE ENGINEERING RESEARCH INSTITUTE**

***Cairo, Egypt 1998 –2002***

- Application of agriculture mechanization
- Drying of crops using biogas energy
- Handling and grading different vegetables
- Application of computer software

## **AGRICULTURE ENGINEERING RESEARCH INSTITUTE**

***Cairo, Egypt 2002 –Till now***

- Classification of tomato fruits using color image analysis technique.
- Optical properties for tomatoes maturity stages using visible lasers.
- A laser optical method for measuring some physical properties and inference surface area equation of faba bean.
- Development a thresher for wheat crop of beater type for maximum productivity.
- Development of the manual solitary reeling Japanese machine for reeling the mulberry silkworm bombyx mori l. cocoons.
- Development of cutting knives in preparing grapevines for grafting machine.
- Some parameters affecting volatile oil extraction process from some seeds of medical and aromatic plants using water distillation unit
- Utilization of pneumatic control for grading potato tubers
- Light and electrical reflections of visible laser for strawberry maturity stages
- Ultraviolet, visible, and infrared wavelengths for determination of palm oil quality

## **LANGUAGE**

Arabic	Native language
English	Good command
Italy	Main basic
Germany	Main basic

Reviewer and editor in some international Scientific Journals such as:

No.	Journal names
1	<i>Agricultural Engineering International: CIGR Journal</i>
2	<i>Advances in Applied Agricultural Science</i>
3	<i>International Journal of Business, Management and Social Research</i>
4	<i>Advances in Plants &amp; Agriculture Research</i>
5	<i>Current Agriculture Research Journal</i>
6	<a href="http://Academia.edu">Academia.edu - Share research</a>
7	<i>Asian Association for Agricultural Engineering</i>
8	<i>American Society of Agricultural and Biological Engineers</i>
9	<a href="#">ANNC: Publication of AAHC E-Journal - H-Net</a>
10	<i>International Agricultural Engineering Journal</i>
11	<i>World Research Journal of Agricultural &amp; Biosystems Engineering</i>
12	<i>International Journal of Agricultural Science and Technology</i>
13	<i>Journal of Agricultural Engineering and Biotechnology</i>
14	<i>World Journal of Agricultural Research</i>
15	<b><i>Journal of Mechanical Engineering and Technology</i></b>
16	<i>Journal of science, technology and environmental informatics</i>
17	<b><i>MOJ Food Processing and Technology</i></b>
18	<i>American Journal of Agricultural and Biological Sciences</i>
19	<i>International Journal of Engineering Research &amp; Technology</i>
20	<i>Journal of Food Safety</i>
21	<i>Journal of Radiation Research and Applied Sciences</i>
22	<i>Donnish Journal of Microbiology and Biotechnology Research</i>

#### Distinguished Scholar Award

**adrian.steinberg@frdn.net** <adrian.steinberg@frdn.net>

إلى: abdo\_aaaa2000@yahoo.com

Ref: Distinguished Scholar Award

Dear Prof. Abd El-Rahman Abd El-Raouf Ahmed,

We are pleased to inform you that the independent ad hoc Scientific Award Committee and the Editorial Board of the European Journal of Scientific Research have decided to recognize you as a **Distinguished Scholar** based on your contribution to your selected field of academic research through your article titled "Effect of Silver Nano-Particles on Gray Mold of Tomato Fruits", which was published in the Volume 1 Issue 4 of the Journal of Nanotechnology Research.

As you may know, this is a prestigious academic recognition that we have been presenting to a very limited number of scientists from around the world since 2004 regardless of which scientific journal they have chosen as an outlet for their research. Selection of candidates are based on their outstanding scholarly contribution to the scientific knowledge in their fields of scientific research with respect to a set of criteria, including:

- Overall importance of the research question or problem and level of innovation in the topic
- Effectiveness and novelty of the methodology and data employed
- Academic significance and usefulness of conclusions resulting from the research
- Adequacy of the critical review of relevant literature
- Broad application of the findings

Once again, please accept my deepest congratulations and warmest regards,

Yours Sincerely,

Adrian Marcus Steinberg, PhD

Chair, Independent ad hoc Scientific Award Committee

European Journal of Scientific Research

**adrian.steinberg@frdn.net**

### **Publication research :**

- **El-Shazly M. A.; A. A. Abd El-Rahman and M. T. Ebaid (2003)** Improving of performance sulfurous acid production station in industrial. Misr J. Of Agric. Eng. July, 2003. Vol. 20 No. (3) :587 – 596.
- **Kadry M.; A. A. Abd El-Rahman and M. T. Ebaid (2003)** The parameters affecting on the performance of corn steeping unit in industrial. Misr J. Of Agric. Eng. July, 2003. Vol. 20 No. (3):715 – 723.
- **Ebaid M.T.; A. A. Abd El-Rahman and T. Fouda (2003)** Determine the terminal velocity for some grain crops and their impurities. Misr J. Of Agric. Eng. July, 2003. Vol. 20 No. (3):851 – 860.
- **Helmy M.A., A. A. Abd El-Rhman, M. T. Ebaid and M. A. Hassan (2003)** Expectant production of biogas and fertilizer from different residuals fermentation using biogas unit. Misr J. Of Agric. Eng. Oct, 2003. Vol. 20 No. (4): 949 – 964.
- **Helmy, M. A.; A. A. Abd El-Rahman and H. E. Hassan (2003)** Classification of tomato fruits using color image analysis technique. Misr J. of Agric. Eng. July, 2004. Vol. 20 No. (3): 597 – 608.
- **El-Raie, A. E.; H. E. Hassan and A. A. Abd El-Rahman (2004)** Optical properties for tomatoes maturity stages using visible lasres. The 11th Annual conference of Misr Society of Agr. Eng. Oct. , 2003. 13-26.
- **El-Raie, A. E.; H. E. Hassan; A. A. Abd El-Rahman and Y. B. Abd El-Hay (2004)** A laser optical method for measuring some physical properties and inference surface area equation of faba bean. The 12th Annual conference of Misr Society of Agr. Eng., Oct. , 2004 : 25-40.
- **Abd El-Rhman A. A., M. T. Ebaid and M. A. Hassan (2004)** Performance improvement of an American machine for grapevines grafting under Egyptian conditions. Misr J. Of Agric. Eng. Jan, 2004. Vol. 21 No. (1): 29 –44.
- **Abd El-Rhman A. A., M. T. Ebaid, M. A. Hassan, and Souad M. Mahmoud. (2004)** Development of the manual solitary reeling japanese machine for reeling the mulberry silkworm bombyx mori l. cocoons. Misr J. Of Agric. Eng. July, 2004. Vol. 21 No. (3): 697-713.
- **Helmy M.A., A. A. Abd El-Rhman, M. T. Ebaid and M. A. Hassan. (2005)** Modification of the solitary reeling japanese machine to use as multi reeling machine with different silk filament types Misr J. Of Agric. Eng. Jan., 2005. Vol. 22 No. (1): 53 -70.
- **Abd El-Rhman A. A.; G. K. Arafa and A. E. Ali (2005)** Some parameters affecting volatile oil extraction process from some seeds of medical and aromatic plants using water distillation unit. Misr J. of Agric. Eng. April, 2005. Vol. 22 No. (2): 732 – 746 .

- **Ebaid M. T., A. A. Abd El-Rhman, and H.E Osman.. (2005)** Development of cutting knives in preparing grapevines for grafting machine. *Misr J. Of Agric. Eng. Jan.*, 2005. Vol. 22 No. (3): 1011 – 1021.
- **Abd El-Rahman A. A. (2004)** Utilization of pneumatic control for grading potato tubers . *Misr J. Of Agric. Eng. July*, 2006. Vol. 23 No. (3) : 658- 675.
- **El-Raie A. E., A. A. Abd El-Rahman, and H. E. Hassan (2005)** Color wavelength of maturity stages of strawberry fruits using color image analysis technique. The 13th Annual conference of Misr Society of Agr. Eng. 14-15 Dec. , 2005. *Misr J. Of Agric. Eng. Jan.* Vol. 22 No. (4):553-569.
- **El-Raie A. E., H. E. Hassan, and A. A. Abd El-Rahman (2005)** Light and electrical reflections of visible laser for strawberry maturity stages. The 13th Annual Conference of Misr Society of Agr. Eng.14-15 Dec. , 2005. *Misr J. Of Agric. Eng. Jan.* Vol. 22 No. (4):538-552.
- **Abd El-Rahman A. A. and H. A.A. Badwy (2004)** Ultraviolet, visible, and infrared wavelengths for determination of palm oil quality. The 13th Annual Conference of Misr Society of Agr. Eng. Oct. , 2006. In press.
- **El-Raie, A. E.; A. A. Abd El-Rahman, H. E. Hassan; and H.A. Saker (2004)** Comparative light inspection to sort bombyx mori l. cocoons. *Misr J. Of Agric. Eng. July*, 2006. Vol. 23 No. (3) : 658- 675.
- **Abd El Rahman and Abd El-Kader (2008)** Light characteristics of particles size for wheat flour using color analysis. . *J. Agric. Sci. Mansoura Univ.* 33 (7): 5017 – 5030.
- **Radwan G. G. , A. A. Abd El Rahman and A. E. Moharm (2009)** Study the effect of some grain properties on select and design some processing equipments. *J. Agric. Sci. Mansoura Univ.*, 34 (6): 7227 – 7242.
- **El-Raie, A. E.; H. E. Hassan and A. A. Abd El-Rahman (2009)** Optical and electrical properties of some grains using visible laser. *Misr J. of Agric. Eng. July*, 2009. Vol. 34 No. (3): 1235 – 1249.
- **Abd El-Rahman A. A. ; H. E. Hassan and G. K. Arafa (2009).** Effect of electromagnetic radiation on germination of wheat seeds. *J. Agric. Sci. Mansoura Univ.*, 34 (10): 10217 – 10231.
- **Abd El-Kader and Abd El Rahman (2009).** Effect of chemical composition of some grains on its physical and mechanical properties. *Misr J. of Appl. Sci.* . Vol. 24. No. (10): 260 – 270.
- **Abd El-Rahman M. ; A. A. Abd El Rahman and Fouad A. (2009).** Utilization of feathers wastes at poultry processing in particleboards manufacture. *J. Agric. Sci. Mansoura Univ.* (In Press)

- **Arafa G. K. and A. A. Abd El-Rahman (2010)** Utilization of visible light radiation to determine crack percentage in some rice grains varietie. *Misr J. of Agric. Eng.* 27 (2) :644 -661 .
- **Abd El-Rahman A. A., Y. A. Habib and H.A. Badawy (2010)** . Detection using visible laser of palm oil quality affected by heating process. 2nd International Conference on Radiation Sciences and Applications, 28/3 - 1/4/2010., Marsa Alam, Egypt. *J. Of Sceince Radiation.* 2010 : 9 – 22
- **Hassan H. E., A. A. Abd El-Rahman and F. M. Shehata (2010)**. Visible laser beam for quality evaluation of cow meat. The 17th Annual conference of Misr Society of Agr. Eng., Agric. Eng. Dep., Fac. Agric., Tanta U. 27 - 28 October., 2010. *Misr J. Of Agric. Eng.* 27 ( 4): 1890 – 1906 .
- **Hassan, H. E. ; El-Rahman, A. A. A. ; Shehata, F. M. (2010)**. Machine vision method for quality evaluation of cow meat. Proceedings of the 3rd Scientific Conference of Animal Wealth Research in the Middle East and North Africa, Foreign Agricultural Relations (FAR), Egypt, 29 November - 1 December 2010 2010 pp.351-370 ref.14
- **Hassan H. E., A. A. Abd El-Rahman and F. M. Shehata (2011)**. Machine vision method for quality evaluation of cow meat. *Misr J. of Agric. Eng.* 28 ( 2 ) : 416 - 439.
- **Hassan H. E., A. A. Abd El-Rahman, and M. M. Attia (2011)**. Laser classification of olive fruits during maturity according to optical properties. *Misr J. of Agric. Eng.* 28 (3): 686-700.
- **Hassan H. E., A. A. Abd El-Rahman, and M. M. Attia (2011)**. Light fluorecence quality evaluation of oil during maturity of olive. *Misr J. of Agric. Eng.* 28 (3): 701-718.
- **Hassan H. E., A. A. Abd El-Rahman and M. M. Attia (2011)**. Color properties of olive fruits during its maturity stages using image analysis. The 8th International conference on Laser Application. AIP Conf. Proce. American Institute Physica 1380: 101 – 106.
- **Abd El-Rahman A. A. (2011)**. Lemon fruits classification according to quality identification using laser technique. The 18th Annual conference of Misr Society of Agr. Eng., Agric. Eng. Dep., Fac. Agric., Al-Azhar U. 26 - 27 October., 2011. *Misr J. Of Agric. Eng.* . 28 ( 4): 679 – 692.
- **Abd El-Rahman A. A. (2012)**. Irradiation of banana fruits to safe storage using gamma radiation. *J. Soil Sci. and Agric. Eng., Mansoura Univ.,* Vol. 3 (1): 17 – 25.
- **Abd El-Rahman A. A. (2013)** Detection of suitable wavelength for maturity stages of orange fruits using spectral analysis . *Misr J. of Agric. Eng.* ISSN: (1687 - 384x), 30 (1): 243-262.
- **Abd El-Rahman A. A. (2013)**. Classification of apple defected fruits using color image analysis technique. *Misr J. of Agric. Eng.* (In Press).

- **Hassan H.E., A.A. Abdel Rahman, E.A. El-Sherbini, Z. Abd El-Fattah, and A.R. Abdel Tawab (2013)** . Laser-Induced Breakdown Spectroscopy (LIBS) – An Assessment of Treated Industrial Wastewater Using Water Hyacinth Roots. *Journal of Applied Sciences Research*, ISSN 1819-544X , 9 (2): 1074-1082, 2013.
- **Hassan H.E., A.A. Abd El-Rahman and O.A. Abdel-Hameed (2014)**. Orange Quality Evaluation during Maturity Using Laser Technology. *Middle East Journal of Applied Sciences*. ISSN 2077-4613, 4(3): 629-636, 2014
- **Hassan H. E., A. A. Abd El-Rahman and U. A. Abdel-Hameed (2015)**. Lemon Quality Evaluation during Maturity Using Color Analysis and Laser Technology. *Process Engineering. Misr J. Ag. Eng.*, 32 (2): 771 – 788.
- **El-Raie, A. E., H. E. Hassan, A. A. Abd El-Rahman and R. A. Shaimaa (2015)**. A Laser Optical Method for Predicting Adulteration of Clover Honey Bee. *Middle East Journal of Applied Sciences*. ISSN 2077-4613 Volume : 05 | Issue : 02 | Pages: 587-596.
- **Hassan, H. E.; A. A. Abd El-Rahman; M. Diao El-Din H. Farag; Z. A. Abd El-Salam and F. M. Shehata (2015)**. Impact of ultraviolet irradiation processing on quality of fresh beef meat during cold storage. *Agric. Eng. Int.: CIGR Vol. 17, No. 2*. Pages:130-139.
- **Hassan, H. E. , A. A. Abd El-Rahman and A. M. M. Liela. (2016)**. Sprouting Suppression and Quality Attributes of Potato Tubers as Affected by Post-Harvest UV-C Treatment under Cold Storage. *Journal DOI: 10.21474/IJAR01, ISSN 2320-5407, International Journal of Advanced Research: CIGR.*, 4 (4): 241 – 253.
- **Ahmed Emam El-Raie, Helmy Elsayed Hassan, Abdel-Rahman Abdel-Raouf and Shaimaa Rabea (2018)**. A laser optical method for predicting adulteration of clover honey. *J. Sci. Food Agric.* 2018; **98**: 3823–3828.
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- **Abd El-Rahman, A. A.1, H. E. Hassan2, A. M. M. Liela 1(2018)**. Detecting the external defects of potato tubers using a visible laser. *AgricEngInt: CIGR Journal Open access at <http://www.cigrjournal>*. Vol. 20, No. 1 211
- **Hassan, H. E.1, A. A. Abd El-Rahman2, A. A. Khalid1\* (2018)**. Quality evaluation of strawberry fruit using visible laser. *AgricEngInt: CIGR Journal Open access at <http://www.cigrjournal.org>* Vol. 20, No. 4 157-163.
- **Helmy Hassan, Elham Elsayed, Abd El-Rahman Abd El-Raouf and Salma N. Salman (2019)**. Method validation and evaluation of household processing on reduction of pesticide residues in tomato. *[Journal of Consumer Protection and Food Safety](https://doi.org/10.1007/s00003-018-1197-2)*. doi.org/10.1007/s00003-018-1197-2 March 2019, Volume 14, [Issue 1](https://doi.org/10.1007/s00003-018-1197-2), pp 31–39.
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- **Helmy El-Sayed Hassan Mohammed, Ahmed El-Raie Emam Suliman, Abd El-Rahman Abd El-Raouf Ahmed and Mahenor Arabiy Ebrahim (2020).** Ultraviolet Effect on Faba Bean Seed Quality During Storage. *Asian J. Plant Sci.*, 19 (1): 26-34, 2020
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- **Helmy El-Sayed Hassan Mohammed , Ahmed El-Raie Emam Suliman, Abd El-Rahman Abd El- Raouf Ahmed<sub>3</sub> and Mahenor Arabiy Ebrahim<sub>3</sub> (2020).** laser radiation effect on faba bean quality during storage. *Plant Archives* Vol. 20 Supplement 1, 2020 pp. 693-701
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- **Liela Mohamed Ali<sup>1</sup> ▪ Sherif Saied Saleh<sup>2</sup> ▪ Abd El-Rahman Abd El-Raouf Ahmed<sup>1</sup> ▪ Helmy El-Sayed Hasan<sup>3</sup> , Ahmed El-Raie Emam Suliman (2020).** Novel postharvest management using laser irradiation to maintain the quality of strawberry. *Journal of Food Measurement and Characterization* (2020) 14:3615–3624
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- **Abd El-Rahman Abd El-Raouf Ahmed, Gamal Kamal Arafa, Helmy El-Sayed Hassan and Hend Nabil Mohamed. (2020).** Effect of Gamma Radiation on Oil Quality of Dried Mint Leaves. *American Journal of Agricultural and Biological Sciences* 2020, Volume 15: 83.97
- 
- **Abd El-Rahman, A.A., Aml, A.E., Rehab, E.M.E.S., Salah, M.E., & Helmy, E. H. (2021).** Resistance of white mango scale by pesticide spraying using a mist blower and the effect of spraying process on fruits quality. *International Agricultural Engineering Journal*, 30(2), 19–30.

## **International Publication Research :**

- **Hassan, H. E. ; Abd El-Rahman, A. A. A. ; Shehata, F. M. (2010).** Machine vision method for quality evaluation of cow meat. Proceedings of the 3rd Scientific Conference of Animal Wealth Research in the Middle East and North Africa, Foreign Agricultural Relations (FAR), Egypt, 29 November - 1 December 2010 pp.351-370 ref.14.
- **Hassan H. E., A. A. Abd El-Rahman and M. M. Attia (2011).** Color properties of olive fruits during its maturity stages using image analysis. The 8th International conference on Laser Application. AIP Conf. Proce. American Institute Physica 1380: 101 – 106.
- **Hassan H.E., A.A. Abdel Rahman, E.A. El-Sherbini, Z. Abd El-Fattah, and A.R. Abdel Tawab (2013) .** Laser-Induced Breakdown Spectroscopy (LIBS) – An Assessment of Treated Industrial Wastewater Using Water Hyacinth Roots. Journal of Applied Sciences Research, ISSN 1819-544X , 9 (2): 1074-1082, 2013.
- **Abdelsalam A. 1 Abdelsalam, 1Adel M. Ibrahim, 1Osama A. Ataala and 2Abdelrahman A.Abdelrahman (2014).** Laser and Colorimetric Analysis Techniques for Quality Assessment of Some Imported Frozen Meat Cuts. World Journal of Dairy & Food Sciences 9 (2): 204-212, 2014. DOI: 10.5829/idosi.wjdfs.2014.9.2.8656
- **Hassan H.E., A.A. Abd El-Rahman and O.A. Abdel-Hameed (2014).** Orange Quality Evaluation during Maturity Using Laser Technology. Middle East Journal of Applied Sciences. 4(3): 629-636, 2014.
- **Hassan, H. E.; A. A. Abd El-Rahman; M. Diao El-Din H. Farag; Z. A. Abd El-Salam and F. M. Shehata (2015).** Impact of ultraviolet irradiation processing on quality of fresh beef meat during cold storage. Agric. Eng. Int.: CIGR Vol. 17, No. 2. Pages:130-139.
- **Hassan, H. E., A. A. Abd El-Rahman and A. M. M. Liela, (2016).** Sprouting Suppression and Quality Attributes of Potato Tubers as Affected by Post-Harvest UV-C Treatment under Cold Storage. Journal DOI: [10.21474/IJAR01/249](https://doi.org/10.21474/IJAR01/249) ISSN 2320-5407, International Journal of Advanced Research:CIGR., 4 (4): 241 – 253.
- **Ahmed Emam El-Raie, Helmy Elsayed Hassan, Abdel-Rahman Abdel-Raouf and Shaimaa Rabea (2018).** A laser optical method for predicting adulteration of clover honey. *J. Sci. Food Agric.* 2018; **98**: 3823–3828.
- **Abd El-Rahman, A. A., H. E. Hassan<sup>2</sup>, A. M. M. Liela <sup>1</sup>(2018).** Detecting the external defects of potato tubers using a visible laser. AgricEngInt: CIGR Journal Open access at <http://www.cigrjournal.org>. Vol. 20, No. 1 211
- **Hassan, H. E., A. A. Abd El-Rahman, A. A. Khalid (2018).** Quality evaluation of strawberry fruit using visible laser. AgricEngInt: CIGR Journal Open access at <http://www.cigrjournal.org> Vol. 20, No. 4 157-163.
- **Helmy Hassan, Elham Elsayed, Abd El-Rahman Abd El-Raouf and Salma N. Salman (2019).** Method validation and evaluation of household processing on reduction of pesticide residues in tomato. [Journal of Consumer Protection and Food Safety](https://doi.org/10.1007/s00003-018-1197-2). doi.org/10.1007/s00003-018-1197-2 March 2019, Volume 14, [Issue 1](https://doi.org/10.1007/s00003-018-1197-2), pp 31–39.

- **Abdel Mohsen, H., A. A. Abd El-Rahmam, and H. E. Hassan. 2019.** Drying of tomato fruits using solar energy. *Agricultural Engineering International: CIGR Journal*, 21(2): 204–215.
- **Hassan, H.E., A. E. El-Raie, A.A. Abd El-Rahman, M. A. Nawito, and S. R. Ali. 2019.** Quality evaluation of sesame oil during pantry storage using laser technique. *Agricultural Engineering International: CIGR Journal*, 21(2): 188–195.
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- **Liela M Ali, Helmy E Hassan, Ahmed E El-Raie, Abd El-Rahman A Ahmed and Sherif S Saleh (2019).** The prospect of using guava leaf extract for biosynthesizing chitosan nanoparticles. **IOP Publishing** | Vietnam Academy of Science and Technology Advances in Natural Sciences: Nanoscience and Nanotechnology. *Adv. Nat. Sci.: Nanosci. Nanotechnol.* 10 (2019) 045005 (7pp).. <https://doi.org/10.1088/2043-6254/ab4804>
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- **Ehab Ahmed Salem<sup>1</sup>, Mohamed Abdel Salam Nawito<sup>1</sup>, Abd El-Rahman Abd El-Raouf Ahmed<sup>2\*</sup> (2019).** Effect of Silver Nano-Particles on Gray Mold of Tomato Fruits. *J Nanotechnol Res* 2019; 1 (2): 108-118 DOI: 10.26502/fjnr.009
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- **Helmy El-Sayed Hassan Mohammed, Ahmed El-Raie Emam Suliman, Abd El-Rahman Abd El-Raouf Ahmed and Mahenor Arabiy Ebrahim (2020).** Ultraviolet Effect on Faba Bean Seed Quality During Storage. *Asian J. Plant Sci.*, 19 (1): 26-34, 2020 .
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- **Helmy El-Sayed Hassan Mohammed , Ahmed El-Raie Emam Suliman, Abd El-Rahman Abd El- Raouf Ahmed<sub>3</sub> and Mahenor Arabiy Ebrahim<sub>3</sub> (2020).** laser radiation effect on faba bean quality during storage. *Plant Archives* Vol. 20 Supplement 1, 2020 pp. 693-701
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- **Liela Mohamed Ali<sup>1</sup> ▪ Sherif Saied Saleh<sup>2</sup> ▪ Abd El-Rahman Abd El-Raouf Ahmed<sup>1</sup> ▪ Helmy El-Sayed Hasan<sup>3</sup> , Ahmed El-Raie Emam Suliman (2020).** Novel postharvest management using laser irradiation to maintain the quality of strawberry. *Journal of Food Measurement and Characterization* (2020) 14:3615–3624
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