

Curriculum Vitae:

(1) Personal information

Name	Aly Soliman Hamed Derbalah
Nationality/ Citizenship	Egyptian
Current Appointment and/or Status	Professor of Pesticides Chemistry and Toxicology, Faculty of Agriculture, Kafrelshiekh University, Egypt
Academic Degree	PhD Hiroshima University
E-mail addresses	ali.derbala@agr.kfs.edu.eg aliderbalah@yahoo.com
Field of Research	Environmental Chemistry, analysis, fate, risk assessment, toxicity, and remediation of pesticides
Telephone	0020473105435 00201004819474
Date of Birth	23/7/1972
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Higher Education History

1. Bachelor's degree in Agricultural Sciences (Pesticides Chemistry) Tanta University, Kafr El-Shiekh Egypt 1994
2. Master's degree in Agricultural Sciences (Pesticides Chemistry) Tanta University Kafr El-Shiekh Egypt 1999
3. Doctoral degree in Agricultural Sciences (Pesticides fate and remediation) Hiroshima University, Japan 2004

Employment History

1. Demonstrator in Pesticides Chemistry and Toxicology Department, Faculty of Agriculture Kafr-Elshiekh, Tanta University, Egypt, September 1994
2. Assistant lecturer in Pesticides Chemistry and Toxicology Department, Faculty of

- Agriculture Kafr-Elshiekh, Tanta University, Egypt June 1999
3. Assistant professor in Pesticides Chemistry and Toxicology Department, Faculty of Agriculture Kafr-Elshiekh, Tanta University, Egypt December 2004
 4. Associate professor in Pesticides Chemistry and Toxicology Department, Faculty of Agriculture, Kafr-Elshiekh University, Egypt January 2010
 5. Professor in Pesticides Chemistry and Toxicology Department, Faculty of Agriculture, Kafr-Elshiekh University, Egypt, January 2015 till now.
 - 6- Visiting professor to National Institute of Materials Science Tsukuba from October 2013 to April 2014
 - 7- Visiting professor to Hiroshima University from April 2018 to January 2019
 - 8- Visiting professor to Hiroshima University from June 2022 to December 2022
 - 9- Visiting professor to Hiroshima University from 1 October 2024 to 30 November 2024

Personal skills and competences

I am a professor of Pesticides Chemistry and Toxicology in Pesticides Chemistry and Toxicology Department, Faculty of Agriculture, Kafrelshiekh University, 33516, Egypt. I got my PhD in environmental chemistry of pesticides from Hiroshima University, Japan 2004. I received Egyptian Government fellowship to National Institute of Materials Science, Tsukuba Japan from October 2013- to April 2014 for remediation of pesticides water using nanoadsorbents. I worked as visiting professor in Hiroshima University, Japan from April 2018 to January 2019 in the field of fate and removal of pesticides in water. I am a principal investigator and research team member in several research projects (six projects) from Ministry Agriculture and Kafrelsheikh University in the field of environmental pollution by pesticide residues and its remediation technologies. Therefore, I have a research experience in the analysis, transport and remediation technologies of pesticide residues in different environmental matrixes.

I published more than 90 papers most of them in international journals. I am an editorial board and reviewer in 15 journals in the environmental chemistry. I published five scientific books in the field of pesticides remediation, analysis and fate with respect to nanotechnology and its application. Therefore, I have a good experience in publishing of scientific papers in the international impacted journals.

I got many prizes such as the best Arab young scientist in sustainable management of water resources in the Arab Region, Kingdom of Saudi Arabia international prize in the environment 2012, incentive state prize in the agricultural sciences from Egyptian Academy of Scientific Research 2014 and incentive state prize in the environmental sciences from Egyptian Academy of Scientific Research 2015. Obtaining the Order of Excellence of the first class from the President of the Republic on Science Day 2017.

Published papers.

1. Derbalah, A., Morsy, S., El-Zahi, E.Z.S., Zidan, M., Alfuhaid, N.A., Hamza, A. and Abdeldayem, S., 2024. Fabrication and characterization of microemulsion of some insecticides and evaluating their efficacy against cotton leaf worm on cotton crop under laboratory and field conditions. *Entomological Research*, 54(5), p.e12733.
2. Aly Derbalah, El-Zahi S El-Zahi, Amany Hamza, Mohmmmed Zidan, Nawal Abdulaziz Alfuhaid, Sherif Abdeldayem, Reham Kamel, Saad Morsy (2024) Comparative efficacy of solid nano-dispersions and conventional formulations of some insecticides against Spodoptera Littoralis under laboratory and field conditions. *Journal of Plant Protection Research* (Accepted)
3. Aly Derbalah; Attiah Keratum; Mohamed Darwesh; Ahmed Fayez Omar; Ahmed Salama; Fatma Hegazy The efficacy of some synthetic monoterpenes and Yucca extract for controlling Tribolium castaneum (Herbst) in wheat grain. *Journal of Plant Protection Research* 64 (1) 2024DOI: <https://doi.org/10.24425/jppr.2024.149154>
4. Aly Derbalah Hiroshi Sakugawa Sulfate radical-based advanced oxidation technology to remove pesticides from water A review of the most recent technologies. *International Journal of Environmental Research* (2024) 18:11 1-32 <https://doi.org/10.1007/s41742-023-00561-7>
5. Derbalah, A., Sakugawa, H. Trends in Glyphosate Use with Time in Japan, as Well as Their Relation to Surface Water Concentrations and Risk Assessment. *Water Air Soil Pollut* 234, 711 (2023). <https://doi.org/10.1007/s11270-023-06733-7>

6. Derbalah, A., Sakugawa, H. Trends in the Usage of Fenobucarb, the Commonly Used Carbamate Insecticide in Japan, in Relation to River Water Concentration and Risk Assessment. *Int J Environ Res* **17**, 52 (2023). <https://doi.org/10.1007/s41742-023-00541-x>
7. Elsharkawy MM, Al-Askar AA, Behiry SI, Abdelkhalek A, Saleem MH, Kamran M and Derbalah A (2022) Resistance induction and nematocidal activity of certain monoterpenes against tomato root-knot caused by *Meloidogyne incognita*. *Front. Plant Sci.* 13:982414. doi: 10.3389/fpls.2022.982414
8. Kamel, S.M.; Elgobashy, S.F.; Omara, R.I.; Derbalah, A.S.; Abdelfatah, M.; El-Shaer, A.; Al-Askar, A.A.; Abdelkhalek, A.; Abd-Elsalam, K.A.; Essa, T.; Kamran, M.; Elsharkawy, M.M. Antifungal Activity of Copper Oxide Nanoparticles against Root Rot Disease in Cucumber. *J. Fungi* **2022**, *8*, 911. <https://doi.org/10.3390/jof8090911>
9. Derbalah, A.; Shebl, A.M.; Elgobashy, S.F.; Ahmad, A.A.; Ramadan, N.E.; Behiry, S.I.; Abdelkhalek, A.; Saleem, M.H.; Al-Askar, A.A.; Kamran, M.; Elsharkawy, M.M. Resistance Induction and Direct Antifungal Activity of Some Monoterpenes against *Rhizoctonia solani*, the Causal of Root Rot in Common Bean. *Life* **2022**, *12*, 1040. <https://doi.org/10.3390/life12071040>
10. Derbalah A, Essa T, KamelSM, Omara RI, Abdelfatah M, Elshaer A, Elsharkawy MM. Silver oxide nanostructures as a new trend to control strawberry charcoal rot induced by *Macrophomina phaseolina*. *Pest Manag Sci.* 2022 Jul 21. doi: 10.1002/ps.7084.
11. Mohsen Mohamed Elsharkawy, Ramadan Ahmed Arafa, Reda Ibrahim Omara, Said Mohamed Kamel, Walid Ismail, Sherin Ismail, Aly Derbalah (2022) Developing Ag₂O and Ag₂O/TiO₂ nanostructures as a new strategy for control late blight of potato caused by *Phytophthora infestans* *Physiological and Molecular Plant Pathology*, 120; <https://doi.org/10.1016/j.pmpp.2022.101856>
12. Derbalah A, Abdelsalam I, Behiry SI, Abdelkhalek A, Abdelfatah M, Ismail S, Elsharkawy MM. Copper oxide nanostructures as a potential method for control of zucchini yellow mosaic virus in squash. *Pest Manag Sci.* 2022 May 21. doi: 10.1002/ps.7001.

13. Ashraf Albrakati, Ehab Kotb Elmahallawy, Ahmed H. Massoud, Mohamed S. Ahmed, Moustafa Saad-Allah, Aly S. Derbalah (2022) Biochemical and Histopathological Effects of Repeated Low Oral Doses of Malathion, Metalaxyl and Cymoxanil on Different Tissues of Rats. Pakistan Journal of Zoology pp1-11 DOI:[10.17582/journal.pjz/20210518100521](https://doi.org/10.17582/journal.pjz/20210518100521)
14. Ahmed H. Massoud, Mohamed S. Ahmed, Moustafa Saad-Allah, Aly S. Derbalah, Ashraf Albrakati * and Ehab Kotb Elmahallawy Biochemical and Histopathological Effects of Repeated Low Oral Doses of Malathion, Metalaxyl and Cymoxanil on Different Tissues of Rats. Pakistan J. Zool., pp 1-11, 2022
15. Chidya R, Derbalah A, Abdel-Dayem S, Kaonga C, Tsuji H, Takeda K, Sakugawa H. Contamination, dynamics, and health risk assessment of pesticides in seawater and marine samples from the Seto Inland Sea, Japan. Environ Sci Pollut Res Int. 2022 May 7. doi: 10.1007/s11356-022-20617-z.
16. Massoud A, SaadAllah M, Dahran NA, Nasr NE, El-Fkharany I, Ahmed MS, Alsharif KF, Elmahallawy EK and Derbalah A (2022) Toxicological Effects of Malathion at Low Dose on Wister Male Rats With Respect to Biochemical and Histopathological Alterations. Front. Environ. Sci. 10:860359. doi: 10.3389/fenvs.2022.860359
17. Massoud A, El-Mehasseb I, Saad Allah M, Elmahallawy EK, Alsharif KF, S. Ahmed M and Derbalah AS (2022) Advanced Oxidation Processes Using Zinc Oxide Nanocatalyst for Detoxification of Some Highly Toxic Insecticides in an Aquatic System Combined With Improving Water Quality Parameters. Front. Environ. Sci. 10:807290. doi: 10.3389/fenvs.2022.807290
18. Chidya R, Derbalah A, Abdel-Dayem S, Kaonga C, Sakugawa H. Ecotoxicological and human health risk assessment of selected pesticides in Kurose River, Higashi-Hiroshima City (Japan). Water Environ Res. 2022 Jan;94(1):e1676. doi: 10.1002/wer.1676. PMID: 34874095.
19. Massoud A, Derbalah A, El-Mehasseb I, Allah MS, Ahmed MS, Albrakati A, Elmahallawy EK. Photocatalytic Detoxification of Some Insecticides in Aqueous Media Using TiO₂ Nanocatalyst. Int J Environ Res Public Health.

- 2021 Sep 2;18(17):9278. doi: 10.3390/ijerph18179278. PMID: 34501865; PMCID: PMC8431621.
20. Derbalah, A., Keratum, A., Darweesh, M. El-Ebiary M. Hegazy F New trends for controlling *Sitophilus oryzae* concerning adult mortality, offspring production, mode of action, and grain quality. *J Consum Prot Food Saf* (2021). <https://doi.org/10.1007/s00003-021-01339-9>
 21. Derbalah, A.; Massoud, A.; El-Mehasseb, I.; Allah, M.S.; Ahmed, M.S.; Al-Brakati, A.; Elmahallawy, E.K. Microbial Detoxification of Dimethoate and Methomyl Residues in Aqueous Media. *Water* **2021**, *13*, 1117. <https://doi.org/10.3390/w13081117>
 22. Ahmed, M.S.; Massoud, A.H.; Derbalah, A.S.; Al-Brakati, A.; Al-Abdawani, M.A.; Eltahir, H.A.; Yanai, T.; Elmahallawy, E.K. Biochemical and Histopathological Alterations in Different Tissues of Rats Due to Repeated Oral Dose Toxicity of Cymoxanil. *Animals* **2020**, *10*, 2205.
 23. Aly Derbalah ;Antar Elbanna;Moustafa Saad Allah 2020 Efficiency of *Candida tropicalis* for Potential Degradation of Metalaxyl in the Aqueous Media. *Current Microbiology* *77* 2991-2999.
 24. Aly Derbalah ;Ismael Khattab;Moustafa Saad Allah 2020 Isolation and molecular identification of *Aspergillus flavus* and the study of its potential for malathion biodegradation in water. *World Journal of Microbiology & Biotechnology* *36*:91
 25. Derbalah, A., Chidya, R., Kaonga, C. Iwamoto, Y. Takeda K., Sakugawa, H. 2020 Carbaryl residue concentrations, degradation, and major sinks in the Seto Inland Sea, Japan. *Environ Sci Pollut Res* *27*, 14668–14678
 26. Aly Derbalah, Kazuko Uobe, Nobutake Nakatani, Takeshi Yamazaki and Hiroshi Sakugawa 2020 Microbial Degradation of Fenitrothion in Kurose River Water, Hiroshima Prefecture, Japan. *Research Journal of Environmental Sciences* *14* (1) 5-17
 27. Aly Derbalah, Michael Sunday, Ryota Kato, Kazuhiko Takeda , Hiroshi Sakugawa (2020) Photoformation of reactive oxygen species and their potential to degrade highly toxic carbaryl and methomyl in river water. *Chemosphere* *244* 1-8.

28. Aly Soliman Hamed Derbalah, Mohsen Mohamed Elsharkawy (2019) A new strategy to control Cucumber mosaic virus using fabricated NiO-nanostructures. *Journal of Biotechnology* 306,134-141.
29. A. Derbalah K. Tahara H. Sakugawa (2019) Monitoring sources, discharges, and fluxes of, and assessing the risks from, pesticides in the Kurose and Ashida Rivers, Japan *International Journal of Environmental Science and Technology* 17,1035-1050.
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32. Derbalah, A., R. Chidya, W. Jadoon and H. Sakugawa, 2019. Temporal trends in organophosphorus pesticides use and concentrations in river water in Japan and risk assessment. *J. Environ. Sci.*, 79: 135-152.
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33. Derbalah, A., M.M. Elsharkawy, A. Hamza and A. El-Shaer, 2019. Resistance induction in cucumber and direct antifungal activity of zirconium oxide nanoparticles against *Rhizoctonia solani*. *Pestic. Biochem. Physiol.*, 157: 230-236.
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34. Derbalah, A., M. Sunday, R. Chidya, W. Jadoon and H. Sakugawa, 2019. Kinetics of photocatalytic removal of imidacloprid from water by advanced oxidation processes with respect to nanotechnology. *J. Water Health*, 17: 254-265.
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35. Elsharkawy, M., A. Derbalah, A. Hamza and A. El-Shaer, 2018. Zinc oxide nanostructures as a control strategy of bacterial speck of tomato caused

by *Pseudomonas syringae* in Egypt. Environ. Sci. Pollut. Res. 27: 19049-19057.

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40. Derbalah, A., M. Shenashen, A. Hamza, A. Mohamed and S. El Safty, 2017. Toxicity of some metal oxides nanoparticles on male rats with respect to biochemical and histological changes. Int. J. Adv. Res. Biol. Sci., 4: 68-75.

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45. Derbalah, A., A.A. Ismail and S.M. Shaheen, 2016. The presence of organophosphorus pesticides in wastewater and its remediation technologies. Environ. Eng. Manage. J., 15: 1777-1787.
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47. Hamza, A.M., T.A. Essa, A.S. Derbalah and A.A. Mohamed, 2015. Performance of some fungicide alternatives for controlling powdery mildew on cucumber under greenhouse conditions. Egypt. J. Biol. Pest Control, 25: 647-654.
48. Hamza, A.M., A.A.A. Mohamed and A.S. Derbalah, 2015. Recent trends in bio-controlling of late blight pathogen in tomato under field conditions. Egypt. J. Biol. Pest Control, 25: 145-151.
49. Derbalah, A., S.A. El-Safty, M.A. Shenashen and N.A. Ghany, 2015. Mesoporous collector cavities as nanopockets for remediation and real assessment of carbamate pesticides in aquatic water. Nano-Struct. Nano-Objects, 3: 17-27. [CrossRef](#) | [Direct Link](#) |
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GRANTS/ AWARDS

Grants

- 1- Monbousho Scholarship from 2000- to 2004 to get PhD degree from Hiroshima University.
- 2-Egyptian Government fellowship to the National Institute of Materials Science, Tsukuba Japan from October 2013- to April 2014.
- 3- Visiting Professor to Hiroshima University, Japan April 2018- Januray, 2019 via invitation fellowship from Japan Society for the Promotion of Science.

4-Egyptian Government fellowship to the National Institute of Materials Science, Tsukuba Japan from June 2022- to 26 December 2022.

5- Visiting Professor to Hiroshima University, Japan 1 October 2024- 30 November 2024 via invitation fellowship from Japan Society for the Promotion of Science.

Prizes and Awards

1- Kafrelshiekh University award for international publication 2009-2019

2- Faculty of Agriculture award for the best applied research in the environmental sciences 2009.

3. Selected in biographical record in the 27th (2010) edition of Who's Who in the World (publication date November 18, 2009), inclusion in which is limited to those individuals who have demonstrated outstanding achievement in their own fields of endeavor and who have, thereby, contributed significantly to the betterment of contemporary society.

4. Dr. Ibrahim El-Assiouti Prize for the development of water resources, one of the individual prizes awarded by Academy of Scientific Research and Technology, Egypt 2010.

5-The Best Arab Young Scientist Prize 2012 in: "Sustainable Management of Water Resources in the Arab Region.

6. Kingdom of Saudi Arabia prize for the best Research in environmental management 2012.

7. State Encouragement Prize in the Agricultural Sciences from Egyptian Academy of Scientific Research 2014

8. Environmental Research Prize from Egyptian Academy of Scientific Research 2015

9. Obtaining the Order of Excellence of the first class from the President of the Republic on Science Day in 2017.

5. FIELDS OF INTEREST

Analysis, fate and remediation technologies of Pesticide residues in different environmental matrixes. Alternatives for control agricultural pests.

Training Courses

1- Effective communication

2-Preparation of research project

- 3-The new approaches in teaching³
- 4-Morality and ethics for the university staff
- 5- Development of thinking skills
- 6-Financial and legal aspects of the university staff.
- 7-Quality standards in the learning process.
- 8-Self-evaluation of higher education Institutions
- 9-Education systems
- 10-Achieved the Ministry of Agriculture and Land Reclamation (the Committee on Pesticides) course, that held in, 2009 to be qualified trainer from the Ministry of Agriculture for training the agricultural engineers that engaged in trafficking in the area of pesticides.
- 11-Achieved successfully the training course on "**Sustainable Water Management and Reuse Via Advanced Remediation Technologies**" that held in The national Research Center, Egypt 1-5/8/2010.

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

No.	Name	Membership	Year
1	Journal of Agricultural Research Kafr El-Sheikh Univ. Egypt	Member	1995
2	The Scientific Society for Environmental Protection	Member	2008
3	Research Journal of environmental sciences	Editor	2011
4	Science Alert Environmental Science journals	Reviewer	2008
5	The Egyptian Society of Insects Science	Member	2010
6	Research Journal of environmental toxicology	Editor	2011
7	Journal of Environmental Science and Technology	Editor	2011
8	Asian Journal of Biological Science	Editor	2011
9	Research Journal of Nanoscience and Nanotechnology	Editor	2011
10	Journal of Toxicology and Pest Control	Editor	2011
11	Journal of Biological Research	Editor	2011
12	Persian Gulf Crop Protection Journal	Editor	2012
13	Journal of Environmental Chemistry and Ecotoxicology	Editor	2011
14	The Egyptian Society of Experimental Biology	Member	2012
15	The Egyptian Society for Biological Control of pests	Member	2012

16	Comprehensive Journal of Environment and Earth Sciences	Editor	2012
16	Egyptian Journal of Plant Protection Research	Editor	2013
17	World Journal of Applied Chemistry	editor	2016
18	SRL Toxicology Current Research	editor	2017
19	Journal of Sustainable Agricultural Sciences	editor	2017
20	Scirea Journal of Environment	editor	2018
21	Journal of Plant Protection Research	Reviewer	2018
22	Japan Society for the Promotion of Science	Member	2019
23	Annals of Environmental Chemistry and Toxicology	editor	2021

Conferences

1. The second annual meeting of Japan society of endocrine disrupters 2001
2. The 49th annual meeting of the geochemical society of Japan 2004.
3. The 13th international conference of Geochemistry, Japan 2003.
4. The first international conference of the Egyptian society of experimental biology faculty of agriculture, kafr-El-sheikh, Egypt. 2005
5. The conference of pesticides advantages and disadvantages, faculty of agriculture, Alexandria University Egypt. 2006
6. The conference "from academia to pesticide industry" 24-25 March 2010, Pesticide Chemistry and Technology, Faculty of Agriculture, Elshatby, Alexandria University, Egypt.
7. The 8th international annual conference of the Egyptian society of experimental biology, 24-29 2012, Egypt.
8. The 4th international conference of biological control of agricultural pests 22-25 October 2015 Ciara, Egypt
9. International Conference on Pollution Control and sustainable Environment April 25-26 Dubai, UAE.
10. The Third International Environmental Forum "Environmental pollution problem and Solution" Tanta University, 12-14 July 2016 Egypt
- 11- Egypt-Japan Forum 2020 Natural products and Discovery of new drugs and agrochemicals. Alexandria Library 15 Feb. 2020

- 12- The Egyptian-Japanese Science Forum, entitled Climate Change, Sustainable Development, and the Green Economy, which was held at the Institute of Astronomical and Geophysical Research on March 19, 2022.
- 13- The Sixteenth International Al-Azhar Conference on Modern Engineering Applications and Artificial Intelligence to Achieve Sustainability, February 24-25, 2024, Al-Azhar University, Egypt.

Projects

1. Co-investigator in the project entitled "Monitoring of pesticides and their side effects in the open and protected cultivation and the impact of that on general health in Kafr-El-shiekh". Funded from the support research fund of Tanta University (2004).
- 2- Co-investigator in the project entitled "Identification and determination of pesticides residues and their metabolites in dairy products and elimination of these residues to protect the environment and human health". Funded from the support research fund of Tanta University.
- 3- Co-investigator in the project entitled "The use of new biological and non-biological methods to remove pesticides from aqueous media that used in drinking water and development of fish wealth in Egypt". Funded from the support research fund of Tanta University.
- 4- Co-investigator in the project entitled "Contamination of Water Resources (Drinking and Irrigation) and Agricultural Soils in Kafr Elsheikh Governorate by Some Organic and Inorganic Pollutants With Remediation Approaches awarded by the Fund to Support Research at the University of Kafr-El-shiekh Egypt2009.
- 5-Member of executive team in the project entitled " Preparation of kafr-Elsheikh University central laboratory for environmental studies for accreditation. 2009
- 6- The Main Researcher of the project entitled" The evaluation of insecticides against Physiphora alcaeae in Kafr El-shiekh Governorate" which funded for Ministry of Agriculture, Egypt 2012-2015.
- 7-Co-investigator of the project entitled" The evaluation of insecticides against insect pests of beets crop in Kafr El-shiekh Governorate" which funded for Ministry of Agriculture, Egypt 2012-2015.

- 8- Co-investigator in the project entitled Evaluation of seafood safety in Seto Inland Sea, where impacted by pesticide pollution from the land and use of antifouling agents conducted in Hiroshima university , Japan 2016-2019.
- 9- Co-investigator in the project entitled Elucidation of behavior and roles of photochemically active reactive oxygen species in seawater which funded from and conducted in Hiroshima University, Japan 2016-2019

13. Published Books

13.1. English Book

- 1-Derbalah, A. (2011). **Detection and Remediation Technologies of Pesticide Residues in Water**. VDM Verlag Dr. Müller Publisher GmbH & Co. KG, Germany pp1-216.
- 2-Derbalah, Aly and Hamza Amany (2012) **Methods of Pests Control and Nanotechnology**. LAP Lambert Academic Publishing GmbH & Co. KG, Germany. 1-317.

13.2. Arabic book

- 1-Derbalah, A.S. (2012) **Pesticides and the Environment**. Dar Elketab ElhAdeeth, Cairo Egypt.
- 2-Derbalah, A.S. (2013) **Pesticide residues Analysis Principles and Applications**. Al-Dar Elarabia for publishing and disturbing, Cairo Egypt.
- 3- Derbalah Aly Soliman and Hamza Amany Mohamed (2016) **Nanotechnology and several applications (Agriculture- food technology-water- environment-pests control)**. Dal Elkotob El Elemyiah, Bairut, Lebanon.