



Curriculum Vitae

Personal Details:

Name	Mohamed Mahmoud Hamdy Khedr (M.H.Khedr)
Date and Place of Birth	27/06/1963 / Giza , Egypt
Nationality	Egyptian
Profession	- Professor of Materials Sciences & Nanotechnology. - Former Vice president of Beni-Suef University for Education and Student Affairs from 2015- Nov. 2019.
Organization	Beni-Suef University, Beni-Suef.
Current Address	Beni-Suef –University , Egypt.
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E-mail	dkheddr@yahoo.com /

Education

- B.Sc. Chemistry, Faculty of Science, Cairo University, 1984, with very good score & rank.
- M.Sc. Physical Chemistry, “Studies on the reduction of High grade iron ore compacts”, Faculty of Science, University of Cairo, 1990
- Ph.D. Physical Chemistry, “Reduction of doped iron oxide compacts” Faculty of Science, University of Cairo, 1994 in collaboration with Central Metallurgical Research and Development Institute .
- Associate Professor in Physical chemistry 2002.
- Professor of materials science and nanotechnology from 2007 .

Research/Teaching Employment History:

- Vice president of Beni-Suef University for Education and student Affairs 2015-Nov. 2019.
- Acting as a vice president of Beni-Suef University for Research and Graduate Studies from August to November 2017.
- Founder and dean of the Faculty of Postgraduate studies for Advanced Sciences, Beni-suef University, Egypt 2012
- Scientific Research and Development Unit - Beni-suef University 2009.
- Vice Dean for the postgraduates and researches Affairs-Faculty of Science 2008.
- Director of electronic portal- Beni-suef University 2008.
- Founder & Head of Nanotechnology unit, -Faculty of Science –Beni-suef University 2004.
- Assoc. Prof., Materials Science Lab., Faculty of Science –Beni-suef University 2002-2006

- Lecturer, Faculty of Science –Beni-suef branch- Cairo University1997-2002.
- Lecturer, Central Metallurgical Research & Development Institute (CMRDI) 1990-1994
- Assistant Lecturer in the Central Metallurgical Research & Development Institute, CMRDI.1986-1990

Academic, Teaching and Research Experience:

For undergraduate students:

- Thermodynamics (entropy-free energy-clapyron eqn)
- Electrochemistry (transport number, galvanic cell)
- Corrosion (Pourbaix diagram- thermody. Prediction)
- Chemical kinetics (1st,2nd,3rd, order, Arrhenius eqn)
- Catalysis (Theories, types ,advanced mater. as a cat)
- Inorganic , organic & physical chemistry courses.

For Postgraduate students(Premaster degree)

- Nanomaterials in Advanced surface chemistry and catalysis
- Material chemistry for the preparation of new & advanced materials
- Nano catalysis.

Research Experience:

- Nanomaterials Characterization and Processing .
- Nano catalyst for environmental application.
- Materials for magnetic and electrical applications.
- Ceramics and Powder materials .
- Iron making & Extractive Metallurgy.
- Physicochemical properties of metal oxides, Alloys and Metals.
- High temperature reactions.

At Faculty of science- Beni-Suef University1997-2009- Faculty of Postgraduate Studies for Advanced Sciences 2013-2017.

- Founder and head of the Nano Science & Advanced materials Unit - Faculty of science- Beni-Suef University.
- Founder and dean of faculty of Postgraduate Studies for Advanced Sciences.

Topics:

1. Production of ferrites and metal oxides from Egyptian ores
2. Preparation of nano-metal oxides by novel method invented by our group.
3. Characterization of nanomaterials (magnetic and electrical properties)
4. Studying the catalytic activity of nanomaterial (metals &metals oxides) towards some environmental processes such as CO₂ decomposition and CO oxidation

also Photocatalytic degradation for some dyes using nanomaterials as catalyst.

5. Preparation of Nanomaterials for different application such as biotechnology , energy , environment & medicine

At Central Metallurgical Research & Development Institute (CMRDI)
1985-1997

Participated in many researches in the field of materials science and in some projects:

1. Use the low grade ores through the mixing of ores with fuel oil (low price material) which acts as a binder and reducing agent to obtain a partially reduced pellets.
2. Reuse the fines remained during mining and transportation of ores (~ 50%) by palletization using a cheap materials.
3. Reuse of mill scale which is a waste product formed during manufacture of steel by selecting the optimum condition for palletization to reduce it in the blast furnace.
4. Studying the effect of manganese oxide on the reduction of iron ores and its minimization by partial reduction and magnetic separation.
5. A theoretical study on the kinetics and mechanisms of some applied processes.

Training Courses and Consultation Experience:

Got the following courses:

- Iron making - CMRDI
- Thermal analysis- Cairo University.
- English language – American university in Cairo.
- Computer - American university in Cairo.
- “Presentation skills” – Cairo University.
- “Problem solving and decision making” Cairo university.
- “Teaching evaluation” Cairo University.
- “Teaching by technology” Cairo University.
- “Course specifications” Cairo University.
- Instrumental analysis " Amsterdam, Netherland.

Student activities:

- 1- Organizing the first environmental conference held by Faculty of Postgraduate Studies for Advanced Sciences, Beni-Suef University, under 'Environmental security in the light of global climate changes'. This conference shows the collaboration between Beni-Suef University and the outside community and how can each one of them influence on the other, April 2016.
- 2- Organizing the first conference for international student, which was attended by a great number of Arabic cultural attaché and their administrative staffs, April 2016.
- 3- Organizing the first conference for education and student affair sector in collaboration with the social project of development under "Developing the

educational services of universities in the light of labor market challenges". This conference was held to prepare students to face the challenges of the labor market, April 2016.

- 4- Organizing the scientific research and cultural conference for Egyptian future, (Moustafa Meshrafa 's cycle), September 2016.
- 5- Establishing a new administrative unit for international students to take care of their affairs. This administration is established to attract undergraduate and postgraduate international students from all over the world, improving the international collaboration in the research and educational sector as Beni-Suef University is considered one of the credit universities according to the international quality system.
- 6- Renewing the private program unit of Beni-Suef University ,. This unit works on renewing, improving and achieving Beni-Suef University's programs through monthly meetings to be suitable for the labor market, March 2016.
- 7- Organizing the second conference for the education and student affair sector under "innovation and creativity for under and postgraduate students in Egyptian, Arabic and African Universities, March 2017.
- 8- Improving the services of the student hostel such as the acceptance system and the activities of the students 2018.

Most recent Innovation Work:

1. Preparation of TiO₂nanotubes filled with nano-alloys for anticorrosive and environmental applications.
2. Preparation of graphene's & carbon nano-tubes decorated with magnetic nano-particles for environmental applications.
3. CNT's for cancer treatment.
4. Controlling shape and size for nano-particles used to remove CO & CO₂ from car exhaust.
5. Polymer/metal or metal oxides nano-composites .
6. CO₂ removal with the production of fuels.
7. Water Treatment and Desalination

Conferences and lectures:

1. Visiting Professor: Dept. of Materials Science and Engineering, Iulian University Switzerland, 1994.
2. Visiting: Dept. of Materials Science and Engineering, Iulian University Switzerland, 1996.
3. Invited presentation at Faculty of Science Cairo University Egypt-Feb.2002.
4. Keynote speech to the Egyptian TV "New trends in chemistry" and "Environmental pollution" 2003
5. participated as a General secretary and editorial in chief in the preparation for - the First Arabic conference in applied chemistry Nov. 1999 , Beni-Suef -EGYPT

- First international conference in material Science April 2000. Beni-Suef -EGYPT
 - First international conference in chemistry 2-4/2/2002. Beni-Suef -EGYPT
 - The first Afro-Asian conference on advanced materials- 13- 16 Nov. 2006.
6. Participated in The Japanese- Mediterranean workshop on advanced materials – 2005
 7. Participated in The International conference of nanotechnology-2004 Luxor - Egypt.
 8. Participated in The Nanomaterials conference-Alex-Egypt, 2005.
 9. The Japanese - Mediterranean workshop on advanced materials – 2005 – Cairo - Egypt.
 10. The first Afro-Asian conference on advanced materials -13- 16 Nov. 2006,
 11. The organizer for the second international conference in new trends in chemistry , Hurghada , 13-15- 2008
 12. Participated in The International conference of nanotechnology-2007 –Luxor- Egypt.
 13. Participated in the international conference of nanotechnology – Saudi Arabia, 2008.
 14. Participated in the first international conference of nanomaterials RAKAM – UAE, Feb. 2009.
 15. Participated in the international conference of nanoscience – Rome - ITALY, 30 March 2009.
 16. Participated in the 6th international conference of Oxidation Catalysis – France, 5-11 July 2009.
 17. Organized the nanotechnology training course 28 Feb. – 3 March 2010.
 18. Participated in the first international conference of nanomaterials RAKAM UAE, Feb. 2010.
 19. Organized the international conference in Nanotechnology for Society and Environment 4-5 May 2010.
 20. Participated in the international conference of magnetic nanomaterials – Istanbul -Turkey, 20 Sept. 2010.
 21. Participated in the Chinese – Egyptian workshop in nanotechnology – Pijin - China, 14 October 2010.
 22. Participated in the international conference of photonics & nanomaterials – Sharm El Sheikh -Egypt, Oct. 2011.
 23. Participated in the international conference of nanomaterials – Vento nanotech, Venice-Italy, 22-25 Nov. 2011.
 24. Visiting professor: Dept. of Materials Science Nanotech, KTH Sweden, 2012.
 25. Participating in the conference of Arab Universities union for Scientific research Amman – Jordan - October 2012.
 26. Participating in the "Tempus Regional Seminar on Human Resource Management in Higher Education in the Southern Mediterranean countries " conference of Arab Universities union for Scientific research Nicosia – Cyprus - June 2013.
 27. Participating in the training course "XRD Basic Application Course " of Arab Universities union for Scientific research Almelo – Netherland - March 2014.

28. Organized the second international conference in Advanced Sciences for society and environment Sokhna – EGYPT, April 2014.
29. Organized the 3rd International Conference (ICAAS-III), Hurghada, Nov. 2015.
30. Participating in the international conference for affairs organizations for high education, Hurghada, March 2016.
31. Participating in the 13rd international conference for chemistry and its role in society development Sharm El Sheikh, Egypt April 2017
32. Organized the Fourth International Conference for Applied sciences (ICAAS-iiii) Hurgada – EGYPT, November 2017.
33. Participating in the 3rd international conference in Food and drugs , Sharm El Sheikh, Egypt April 2018
34. Organized the Fourth Junior Conference for Innovations and patents – EGYPT, march 2019.

Languages: -English (very good skills in English language reading, writing and speaking).

- French (Fair skills in French language reading , writing, & speaking).
- Arabic language (mother tongue).

Membership in Scientific Organizations

1. Member of The European Metals & Materials Society
2. Member of Egyptian Solid State Society.
3. Member of Society of advanced materials and nanotechnology.
4. Head of cultural and foreigner affairs committee Beni-Suef University.
5. Head of Library committee Beni-Suef University.
6. Head of Instruments & chemicals committee Beni-Suef University.
7. Who's Who in the World! for 2010 Edition
8. Member of the Anti-Corruption Committee at Beni-Suef University.
9. Member of the administrative leaders Committee, Beni-Suef University.
10. Member of the fifth committee for selecting deans.
11. Member of the construction committee, Beni-Suef University.
12. Member of the management administration committee of the conference center
13. Member of the management administration committee of the production services
14. Member of the complains committee of teaching staff.
15. Member of applied chemistry committee, IUPAC.
16. The founder and header of Masryeen association for social services.
17. The header of Noor charity for blind and visually impaired.
18. Member of the Basic Sciences council at ASRT 2021.
- 19.4. Member of the Committee for the Promotion of Assistant Professors and Professors in the Field of Inorganic Chemistry 2022-2025.

Patent

I got a patent in Nanotechnology (ref. No. 30401) submitted in 2017 and accepted in 2021

Supervision on M.Sc. and Ph.D. Theses:

- Supervisor for 32 M Sc. and 22 PhD awarded Thesis, 10 under supervision.
- Published 96 papers in international journals and conferences.

Editor and Reviewer for the following Journals:

- (a) - Journal of materials chemistry and physics, ELSEVIER.
- (b) - Journal of materials processing technology, ELSEVIER.
- (c) - Journal of colloids and surfaces -A-physicochemical and engineering aspects, ELSEVIER.
- (d) - Journal of materials and extractive metallurgy.
- (e) - Journal of materials science and Engineering, ELSEVIER.
- (f) - Journal of applied catalysis.
- (g) - Journal of analytical and applied pyrolysis.
- (h) - Journal of Alloys and compounds.

Editor of Beni-Suef University journal of Basic and Applied Sciences (SPRINGER)

Main Achievements

1. Principal founder of the faculty of Postgraduates Studies for Advanced Sciences, Beni-Suef University which is the only one in Africa and the Arab world which grants credited degrees (diploma- M.Sc.- Ph.D.) in nanotechnology, biotechnology, environmental sciences, industrial sciences, medical chemistry and science and engineering of renewable energy.
2. Established the Centre of developing and scientific research at Beni-Suef university which includes:
 - a. Funding and research projects unit which funded 70 scientific projects.
 - b. Training and Conference unit which organized many international conferences and training courses.
 - c. Connecting Research to Industry unit which led many environmental and industrial projects at Beni-Suef governate
3. Established the following Journals at Beni-Suef University.
 - A. Editor of Beni-Suef University journal of Basic and Applied Sciences SPRINGER.
 - B. Accounting and auditing journal.
 - C. E-learning Journal.
4. Established the central laboratory at Beni-Suef University.
5. Established the distinguished Programs unit at March 2016
6. Established the foreigner administration to attract foreigner students and facilitate their affairs.
7. Established the electronic portal gate, Beni-Suef University.
8. Established the center of talented and innovative students.
9. Established the center for Youth and Sports Development.
10. Developed the center of production and food services with four branches.
11. Participating in establishing the following faculties: faculty of agriculture, applied arts, tourism and astronautics science.

Prizes

- Egyptian Excellence Prize in advanced technological sciences 2015.
- Beni-Suef University Appreciation Award 2014-2015
- Accolade of Arts and Science from president Abdel Fattah el-Sisi, 2017.

- My name (M.H. khedr) was listed in the list of World Top 2% Scientists. The list is prepared by Stanford University (USA) and is based on standardized citation indicators and includes all scientists who are among the top 190000.
- My name appeared in the tables namely for career-long and, separately, for single recent year impact.

M.H.Khedr, Scopus author id: 7003337668

Number	Google scholar	Scopus
Total No of Documents	105	84
Citations	2998	2122
h-index	33	28

List of Publications

No	1-100		معامل التأثير
1	"Enhancement of Surface and Interface Properties of Low Carbon Steel by Hybrid ZnO and NiO Nanoparticles Reinforced Tin Coating" K. S. Abdel Halim, Mohamed Ramadan, El-Sayed M. Sherif, Khalid M. Hafez, Tayyab Subhani, Naglaa Fathy, Abdulaziz S. Alghamdi and Mohamed H. Khedr. <i>crystals</i> (2022) 12, 332.	2022	1.599
2	"Evaluating the performance of Cs ₂ PtI ₆ Br _x for photovoltaic and photocatalytic applications using first-principles study and SCAPS-1D simulation" Hadeer H. AbdElAziz, Mohamed Taha, Waleed M.A. El Roubi, M.H. Khedr, Laila Saad . (2022) <i>Heliyon</i> 8, e10808.	2022	2.85
3	"Novel Cold Cure Acrylic Denture Base with Recycled Zirconia Nano-Fillers That Were Functionalized by HEMA Agent Incorporation: Using the Sprinkle Approach" Hala B Elzahar, Mohamed S El-Okaily, Mohamed H Khedr, Mohamed Amgad Kaddah, Ahmed AG El-Shahawy. (2022) <i>International Journal of Nanomedicine</i> 2022:17 4639–4658.	2022	7.033
4	"Vacancy defects transform zinc tellurite glass from insulator to semiconductor: A first-principles prediction" Mohamed Taha, Rahma A. Abdelhay, Mohamed H. Khedr. (2022) <i>Optik - International Journal for Light and Electron Optics xxx (xxxx) 170125</i>	2022	2.443
5	"Efficient removal of Cu(II) from water solution using magnetic chitosan Nanocomposite" Tarek M. Eldeeb · Ahmed El Nemr· M. H. Khedr · S. I. El-Dek, <i>Nanotechnology for Environmental Engineering</i> (2021) 6:34, https://doi.org/10.1007/s41204-021-00129-w	2021	2.45
6	Influences of calcium sulfate bearing material and zinc oxide nanoparticle on hydration properties of white cement clinker, Ahmed M. Shafeek, M.H. Khedr, S.I. el-Dek, Nabila Shehata , <i>journal of materials research and technology</i> (2021) ;11:2003-2014.	2021	-
7	Synthesis and characterization of Ni/NiCo ₂ O ₄ modified electrode for methanol electro-catalytic oxidation , A Hamdedein, W M A El Roubi, M D Khan, M M EL-Deeb, A A Farghali, M H Khedr and N Revaprasadu, <i>IOP Conf. Series: Materials Science and Engineering</i> 1046 (2021) 012027 ,IOP Publishing doi:10.1088/1757-899X/1046/1/012027	2021	-
8	Single and combined impact of silica fumes with Functionalized multi-walled carbon Nanotubes and nano silica on performance of cement mortars composites ,Ibrahim M. El-Kattan1, M H Khedr , A A Farghali , M Elsaedy and F N Soliman , <i>IOP Conf. Series: Materials Science and Engineering</i> 1046 (2021) 012024 ,IOP Publishing doi:10.1088/1757-899X/1046/1/012024	2021	-
9	Effect of La doping on the structural and gas sensing properties of PbS thin films deposited by spray pyrolysis ,A Hamdedein, A A Aboud, W M A El Roubi, M D Khan, A A Farghali, M H Khedr and N Revaprasadu , <i>IOP Conf. Series: Materials Science and Engineering</i> 1046 (2021) 012026 ,IOP Publishing doi:10.1088/1757-899X/1046/1/012026.	2021	5.289
10	"Novel three-dimensional chitosan-carbon nanotube–PVA nanocomposite	2020	1.254

	hydrogel for removal of Cr ⁶⁺ from wastewater" Tarek M. Eldeeba,b, Ahmed El Nemra,*, Mohamed H. Khedrb, S.I. El-Dekb, Neama G. Imamc,d <i>Desalination and Water Treatment</i> vol. 184 (2020) 163–177		
11	The Role of NaOH Content, Grinding Time, and Drying Temperature in Controlling the Shape and Size of Nano ZnO Synthesized by a Green Chemistry Approach, D. Refaat1, , A.A. Farghali, A.A. Yousif , M.G. Aggour, M.H. Khedr. , <i>Egypt.J.Chem.</i> Vol. 63, No.10. pp. 3597- 3606 (2020) <i>Egypt.J.Chem.</i> Vol. 63, No.10. pp. 3597- 3606 (2020)	2020	-
12	. "the effect of using nanoparticles phosphorus and zinc on quality and quantity of soybean, Yacoub, N. M., S. A. Ismail, Mai Raslan, and M. H. Khedr (GLYCINE MAX L.)."2, 20, 8863-8876	2020	-
13	Influence of ZnO nanoparticle ratio and size on mechanicals properties and whiteness of White Portland Cement.(2020): Shafeek, A.M., Khedr, M.H., El-Dek, S.I., Shehata, N. <i>Applied Nanoscience</i> . Doi.org/10.1007/s13204-020-01444-5.	2020	2.88
41	Exo-inoculant modification of secondary phase precipitation in H13 tool steel . (2020): Salem, I., Elfawkhry, M.K., Abdel-Khalek, A.A., Khedr, M.H., Matter, T., <i>Key Engineering materials</i> . 835:13-21.	2020	0.35
51	Highly efficient and reusable superhydrophobic/superleophilic polystyrene@Fe ₃ O ₄ nanofiber membrane for high-performance oil/water separation. (2019): Moatmed, S.M., Khedr, M.H., El-Dek, S.I., Kim, H.Y., El-Deen, A.G., <i>Journal of Environmental chemical engineering</i> , 7(6): 103508.	2019	4.3
61	Auto-programmed heteroarchitecturing: Self-assembling ordered mesoporous carbon between two-dimensional Ti ₃ C ₂ T _x MXene layers, (2019): Abeer EnaieAllah, Jie Wang, Yusuf Valentino Kanetib Tao L, Ahmed A.Farghali, Mohamed Hamdy Khedr, Ashok Kumar Nanjundand Bing Dingbe Hui Doue Xiaogang Zhange Bando Yoshiobfg Yusuke Yamauchi, <i>Nanoenergy</i> .vol.65, 103991	2019	16.6
71	Conversion of a 2D Lepidocrocite-Type Layered Titanate into Its 1D Nanowire Form with Enhancement of Cation Exchange and Photocatalytic Performance. (2019): Esmat, M., Farghali, A. A., El-Dek, S. I., Khedr, M. H., Yamauchi, Y., Bando, Y., Fukata, N. & Ide, Y. <i>Inorganic Chemistry: including bioinorganic chemistry</i> , 58 7989-7996.	2019	4.827
81	Capacitive deionization using nitrogen-doped mesostructured carbons for highly efficient brackish water desalination. (2019) Xingtao Xu, Abeer Enaie Allah, Chen Wang, Haibo Tan, Ahmed A Farghali, Mohamed Hamdy Khedr, Victor Malgras, Tao Yang, Yusuke Yamauchi. <i>Chemical Engineering Journal</i> , vol. 362, page 887-896.	2019	10.62 5
91	Soft-Templated Synthesis of Sheet-Like Nanoporous Nitrogen-Doped Carbons for Electrochemical Supercapacitors. (2019): AE Allah, Y Yamauchi, J Wang, Y Bando, H Tan, AA Farghali, MH Khedr, <i>Chem. ElectroChem.</i> In press	2019	4.15
20	Nanocomposite system of simultaneously-thiolated graphene oxide and polyaniline nanofibers for energy storage applications. (2019)	2019	6.225

	Electrochimica Acta M.Farid, M.A.F.Basha, A.H.Zaki, M.H.Khedr. Vol. 300, 1-8		
21	Synthesis and multifunctionality of (CeO₂-NiO) nanocomposites synthesized via sonochemical technique, A.A.Farghali,M.H.Khedr, S.I.El-Dek,A.E.Megahed, Ultrasonics Sonochemistry, Volume 42, April 2018, Pages 556-566	2018	6.513
22	Controlled synthesis of mesoporous nitrogen-doped carbons with highly ordered two-dimensional hexagonal mesostructures and their chemical activation, Abeer Enaïet Allah, Haibo Tan, Xingtao Xu, Ahmed A Farghali, Mohamed Hamdy Khedr, Abdulmohsen Ali Alshehri, Yoshio Bando, Nanjundan Ashok Kumar, Yusuke Yamauchi, Nanoscale, 2018, 10, 12398-12406	2018	6.97
23	CO₂ responses based on pure and doped CeO₂ nano-pellets, Ahmed A Aboud, Heba Al-Kelesh, Waleed MA El Rouby, Ahmed A Farghali, Abdalrahman Hamdedein, Mohamed H Khedr, Journal of materials research and technology, Volume 7, Issue 1, January–March 2018, Pages 14-20	2018	5.289
42	Dust accumulation on photovoltaic panels: a case study at the East Bank of the Nile (Beni-Suef, Egypt), 2017, Karim Menoufi, Hamdy FM Farghal, Ahmed A Farghali, Mohamed H Khedr, Energy Procedia, 128, 24-31.	2017	2
52	Estimation The Median Lethal Dose and Inhibitory Concentration of TiO₂, SiO₂, ZnO and CuO Nanoparticles on Human Hepatoma HEPG2 Cells, 2017, AM Shaker, A El-Shahawy, AH Zaki, Elham F Abdel-Rahim, MH Khedr INTERNATIONAL JOURNAL OF PHARMACEUTICAL and HYTOPHARMACOLOGICAL RESEARCH, 7, (6), 18-23.	2017	3.2
62	Alginate-based nanocomposites for efficient removal of heavy metal ions. Esmat M1, Farghali AA1, MH Khedr, El-Sherbiny IM2.	2017	14.4
72	RF sputtered CuO thin films: Structural, optical and photo-catalytic behavior. AA Al-Ghamdi, MH Khedr, MS Ansari, PMZ Hasan, MS Abdel-wahab, ... Physica E: Low-dimensional Systems and Nanostructures 81, 83-90	2016	2.29
82	Control of Selectivity in Heterogeneous Photocatalysis by Tuning TiO₂ Morphology for Water Treatment Applications. AA Farghali, AH Zaki, MH Khedr Nanomaterials and Nanotechnology 6, 12	2016	2
92	pH-controlled release system for curcumin based on functionalized dendritic mesoporous silica nanoparticles KEA AbouAitah, AA Farghali, A Swiderska-Sroda, W Lojkowski, ...J NanomedNanotechnol 7 (351), 2, MH Khedr	2016	2
30	Properties of pure and (Gd, Sm) doped CeO₂nano-particles. MH Khedr, AA Fargali, WMA El Rouby, AA Aboud, A Hamdedein. International Journal 3 (3), 866-872	2015	0.7
31	Efficiency, Kinetics and Thermodynamics of Toluidine Blue Dye Removal	2014	1.6

	from Aqueous Solution Using MWCNTs Decorated with NiFe₂O₄. M Bahgat, AA Farghali, WMA El Rouby, MH Khedr. Fullerenes, Nanotubes and Carbon Nanostructures 22 (5), 454-470		
32	TiO₂ Nanotubes Filled with NiFe₂O₄ Quantum Dots or Ni-Fe Nanoalloy: Synthesis and Applications MY Mohassab-Ahmed, AF Moustafa, AA Farghali, HY Sohn, MH Khedr. TMS 2014 Supplemental Proceedings, 31-38	2014	1.14
33	TiO₂ nanotubes filled with NiFe₂O₄ quantum dots or Ni-Fe nanoalloy. MY Mohassab-Ahmed, AF Moustafa, AA Farghali, HY Sohn, MH Khedr. Minerals, Metals and Materials Society	2014	-
43	Influence of LiH and Ti metal additives on milling LiAlH₄ compound. N Ismail, AA Aboud, A Hamdel-Din, AA Farghali, MH Khedr. International Journal 2 (8), 307-316	2014	6.992
53	Hydrothermally synthesized TiO₂ nanotubes and nanosheets for photocatalytic degradation of color yellow sunset. AA Farghali, AH Zaki, MH Khedr. International Journal of Advanced Research 2 (7), 285-291	2014	4.077
63	Decoration of multi-walled carbon nanotubes (MWCNTs) with different ferrite nanoparticles and its use as an adsorbent. AA Farghali, M Bahgat, WMA ElRouby, MH Khedr. Journal of Nanostructure in Chemistry 3 (1), 1-12	2013	-
73	Adsorption of Pb (II) ions from aqueous solutions using copper oxide nanostructures. AA Farghali, M Bahgat, AE Allah, MH Khedr. Beni-Suef University Journal of Basic and Applied Sciences 2 (2), 61-71	2013	2.88
83	Electrical, magnetic, and corrosion resistance properties of TiO₂ nanotubes filled with NiFe₂O₄ quantum dots and Ni-Fe nanoalloy. M Bahgat, AA Farghali, AF Moustafa, MH Khedr, MY Mohassab-Ahmed 34 Applied Nanoscience 3 (3), 241-249	2013	2.88
93	Adsorption of methyl green dye onto multi-walled carbon nanotubes decorated with Ni nanoferrite M Bahgat, AA Farghali, W El Rouby, MH Khedr, MY Mohassab-Ahmed. Applied Nanoscience 3 (3), 251-261	2013	4.65
40	Preparation, decoration and characterization of graphene sheets for methyl green adsorption. AA Farghali, M Bahgat, WMA El Rouby, MH Khedr. Journal of Alloys and Compounds 555, 193-200	2013	1.65
41	Biological compatibility of carbon nanotubes for treatment of Pollution of Nile tilapia (Oreochromis niloticus) by lead acetate. M Salah, AA Farghali, H Azmy, MH Khedr Life Science Journal 10 (2)	2013	1.27
42	Decoration of MWCNTs with CoFe₂O₄ nanoparticles for methylene blue dye adsorption. AA Farghali, M Bahgat, WMA El Rouby, MH Khedr. Journal of solution chemistry 41 (12), 2209-2225	2012	3.905
43	Synthesis and modification of multi-walled carbon nano-tubes (MWCNTs) for water treatment applications M Bahgat, AA Farghali, WMA El Rouby, MH Khedr Journal of Analytical and Applied Pyrolysis 92 (2), 307-313	2011	4.65
44	Metalorganic chemical vapor deposition of Ti-O-C-N thin films using TBOT as a promising precursor OA Fouad, RA Geioushy, SM El-Sheikh, MH Khedr, IA Ibrahim. Journal of Alloys and Compounds 509 (20), 6090-6095	2011	4.65
54	Synthesis and characterization of novel conductive and magnetic nano-	2010	1.85

	composites. AA Farghali, M Moussa, MH Khedr. Journal of Alloys and Compounds 499 (1), 98-103		
64	Reduction characteristics of iron oxide in nanoscale KS Abdel Halim, MH Khedr, NK Soliman Materials Science and Technology 26 (4), 445-452	2010	3.905
74	Catalytic decomposition of acetylene over CoFe₂O₄/BaFe₁₂O₁₉ core shell nanoparticles for the production of carbon nanotubes. MH Khedr, M Bahgat, SA Abdel-Moaty. Journal of Analytical and Applied Pyrolysis 84 (2), 117-123	2009	3.204
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Funded Projects by prof. Mohamed Khedr

No.	Title	Funding Agency	Total Fund
1	Synthesis and Characterization of TiO ₂ Nanotubes (TiO ₂ NTs) Filled with Highly Efficient Nanoalloys	STDF	1 Million EGP
2	A new 3-way catalyst for car exhaust	Swedish - Egyptian grant	0.6 Million Krona
3	Titanate nanostructures for removal of toxic heavy metals from drinking water and in vitro evaluation of cytotoxic effects on human normal cell lines (liver and kidney).	Princess NourahbintAbdulrahman University, Saudi Arabia	171,600 Saudi Riyal
4	Core shell nanoparticles for dyes removal in river water	Cairo University	200,000 EGP
5	Plasma assisted preparation of nano metal oxides	US - Egyptian grant (STDF)	200,000 \$
6	Chemical Routes to Nanostructured Materials for Solar Cell Applications	South African - Egyptian grant (ASRT)	200,000 EGP
7	Scaling up of fully solar powered photochemical - biological wastewater treatment using photosynthetic oxygenation	ASRT	400,000 EGP
8	Controlling size and shape of nanoCuO for environmental problems.	STDF	100,000 EGP
9	Doped TiO ₂ /graphenenano composites for large scale H ₂ production from waste water	STDF	100,000 EGP
10	Preparation and characterization of nanoparticles for free radical scavenging	STDF	100,000 EGP
11	Synthesis of innovative hollow fibers polymer nanocomposite for selective removal of arsenic from drinking and ground water	STDF	100,000 EGP
12	Conversion of plastic to oil	BSU	65,000 EGP
13	Formulation and Evaluation of Topical Formulations Containing U.V. Shielding Nano-Metallic	BSU	65,000 EGP

	components		
14	Nanocomposites, a novel approach to optimize, purify and enhance the antibacterial activity of a potent bacteriocin (Enterocin OS13)	BSU	65,000 EGP
15	Photodegradation of some food dyes and bacterial inhibition of some bacteria that present in industrial wastewater and designing a treatment reactor prototype.	BSU	30,000 EGP
16	Enhanced recovery and valorization of algal-bacterial biomass from wastewater treatment plants using layered double hydroxide nanoparticles	STDF	100,000 EGP
17	Scaling up of fully solar powered photochemical - biological wastewater treatment using photosynthetic oxygenation	ASRT	400,000 EGP
18	Design, Implementation and Performance of 10kW Rooftop Grid Connected PV System: PSAS Faculty: as a Case Study	BSU	270,000 EGP
19	Capacity building project for centre of excellency in nanotechnology	STDF	8.500000 EGP

Centre of Excellence in Nanotechnology:

I participated with others in the Dept. of Nanotechnology at PSAS – Beni-Suef Univ. to obtain a centre of excellence project in nanotechnology with fund (8.5 M EGP) and the university Honored me by Naming the centre "Prof. Mohamed Khedr's centre of excellence in nanotechnology"