



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 President of Beni-Suef Technological University.
Organization	Beni-Suef University, Beni-Suef.
Current Address	Beni-Suef –University , Egypt.
Permanent Address	57, 103 St., Maadi , Cairo – Egypt
Telephone and Fax	Mob: 00201005200230
E-mail	dkheddr@yahoo.com / mhkhedr@psas.bsu.edu.eg
Education	
• B.Sc. Chemistry, Faculty of Science, Cairo University, 1984, with very good score. • M.Sc. Non-organic Chemistry, “Studies on the reduction of High grade iron ore compacts”, Faculty of Science, Cairo University , 1990 • Ph.D. Physical Chemistry, “Reduction of doped iron oxide compacts” Faculty of Science, Cairo University , 1994 in collaboration with Central Metallurgical Research and Development Institute . • Associate Professor in Physical chemistry 2002. • Professor of materials science and nanotechnology 2007 .	
Research / Teaching Employment History:	
• Former President of Beni-Suef Technological University 2022- 2023. • 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 2017. • Founder and dean of the Faculty of Postgraduate studies for Advanced Sciences, Beni-suef University, Egypt 2012. • Director and founder of Scientific Research and Development centre - Beni-suef University 2009. • Vice Dean for the postgraduates and researches Affairs-Faculty of Science 2008-2012. • Director of electronic portal- Beni-suef University 2008. • Founder & Head of Nanotechnology centre -Faculty of Science –Beni-suef University 2004. • Assoc.Prof.,Chemistry dept,Fac. of Science–Beni-suef University2002-2006	

- 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 For undergraduate students: 1997-2015

- 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.)
- Introduction to Inorganic , organic & physical chemistry courses.

Academic Teaching For Postgraduate students(Premaster degree) 2007-Now

- Introduction to Nanoscience & Nanotechnology.
- Nanomaterials in Advanced surface chemistry .
- Material chemistry for the preparation of new & advanced materials
- Nano catalysis.

Research Experiencse: 1986-now

- Nanomaterials Characterization and Processing .
- Nano catalysis for different applications.
- 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 University 2003-2012-

At 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.

Research Area :

1. Production of Nano-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)
1986-1997

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:

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 2015.
- 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, July 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. Jan. 2017
- 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 2017.
- 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 important Innovation Work:

1. Preparation of TiO₂nanotubes filled with nano-alloys for anticorrosive and environmental applications.
2. Preparation of graphene & 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 three dimensional 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 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 in French language 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. Former Head of cultural and foreigner affairs committee Beni-Suef University.
5. Former Head of Library committee Beni-Suef University.
6. Former 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. Former Member of the administrative leaders Committee, Beni-Suef University.
10. Former Member of the fifth committee for selecting deans.
11. Former Member of the construction committee, Beni-Suef University.
12. Former Member of the management administration committee of the conference center
13. Former 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 2005-now.
17. The header of Noor charity for blind and visually impaired.
18. Member of the Basic Sciences council at ASRT 2021-2024.
- 19.4. Member of the Committee for the Promotion of Assistant Professors and Professors in the Field of Non-organic Chemistry 2022-2025.

Patent

One 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 & Founder of Beni-Suef University journal of Basic and Applied Sciences (SPRINGER), joined to scopus & web of science.

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, 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 governorate
3. Established the following Journals at Beni-Suef University.
 - A. Editor of Beni-Suef University journal of Basic and Applied Sciences SPRINGER, joined to scopus & web of science.
 - 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.

Awards

- State Excellence Award in Advanced Technological Sciences 2017.
- Beni-Suef University Appreciation Award 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 2023.

M.H.Khedr, Scopus author id: 7003337668

Number	Google scholar	Scopus
Total No of Documents	105	90
Citations	3687	2711
h-index	35	32

No	List of Publications	Year	Impact Factor
1.	Multifunctional nanofiber membrane for high removal efficiency of biological/organic contaminations and oil-in-water emulsion under gravity-driven separation. <i>Moatmed, S.M., Khedr, M.H., El-Dek, S.I., El-Deen, A.G. Journal of molecular liquids, 2024, 394, 123748.</i>	2024	5.3
2.	Nano clinoptilolite zeolite as a sustainable adsorbent for dyes removal: Adsorption and computational mechanistic studies. <i>Salah Elbanna, E., Farghali, A.A., Khedr, M.H., Taha, M. Journal of molecular liquids, 2024, 409, 1255388.</i>	2024	5.3
3.	High- performance metal organic framework for efficient adsorption, controlled release, and membrane separation of organophosphate pesticides. <i>Ashraf, A.M., Khedr, M.H., Farghali, A.A., Abdallah, H., Taha, M. Journal of Environmental chemical engineering., 2024,12(6),114292.</i>	2024	7.4
4.	Multifunctional nanofiber membrane for high removal efficiency of biological/organic contaminations and oil-in-water emulsion under gravity-driven separation Sara M. Moatmed, M.H. Khedr, S.I. El-dek , Ahmed G. El-Deen . <i>Journal of Molecular Liquids, 394 (2024) 123748.</i>	2024	4.77
	Palladium functionalized carbon xerogel nanocomposite for oxygen reduction reaction Hader E. Mansy, Mohamed H. Khedr, Abdalla Abdelwahab. <i>Materials Chemistry and Physics, 313 (2024) 128797.</i>	2024	6.63
5.	2D WS ₂ and MoS ₂ functionalized nickel oxide/nanodiamond supported carbon electrocatalysts for oxygen reduction reaction Elham Mostafa a, Mohamed H. Khedr a*, Abdalla Abdelwahab . <i>Diamond & Related Materials 139 (2023) 110386.</i>	2023	5.6
6.	Layerd SnSe functionalized carbon composite as high – performance super capacitor electrode.Dina s. Eid,M.H.Khedr,Walid M.A.El Rouby, Abdalla abdelwahab. <i>Materials Resarch Bulletin, 168(2023)112456.</i>	2023	4.1
7.	Carbon Steel by Enhancement of Surface and Interface Properties of Low" "Reinforced Tin Coating Hybrid ZnO and NiO Nanoparticles K. S. Abdel Halim, Mohamed Ramadan, El-Sayed M. Sherif, Khalid M. Naglaa Fathy, Abdulaziz S. Alghamdi and Hafez, Tayyab Subhani, Mohamed H. Khedr. <i>crystals (2022) 12, 332.</i>	2022	1.599
8.	“Evaluating the performance of Cs ₂ PtI ₆ xBr _x for photovoltaic and photocatalytic applications using first-principles study and SCAPS-1D simulation” Hadeer H. AbdElAziz, Mohamed Taha, Waleed M.A. El Rouby, M.H. Khedr, Laila Saad . (2022) <i>Heliyon 8, e10808.</i>	2022	2.85
9.	“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 2022:17 4639–4658.</i>	2022	7.033
10.	“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 2022 (xxxx) 170125</i>	2022	2.443

11.	"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
12.	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	-
13.	Synthesis and characterization of Ni/NiCo ₂ O ₄ modified electrode for methanol electro-catalytic oxidation, A Hamdedein, W M A El Rouby, 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	-
14.	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	-
15.	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 Rouby, 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
16.	"Novel three-dimensional chitosan-carbon nanotube–PVA nanocomposite 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	2020	1.254
17.	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	-
18.	"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	-
19.	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
20.	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
21.	Highly efficient and reusable superhydrophobic/superleophilic polysterene@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

22.	Auto-programmed heteroarchitecturing: Self-assembling ordered mesoporous carbon between two-dimensional Ti ₃ C ₂ T _x MXene layers, (2019): Abeer EnaïetAllaha, JieWang, Yusuf ValentinoKanetibTaoL, Ahmed A.Farghali, Mohamed HamdyKhedr, Ashok KumarNanjundandBingDingbeHuiDoueXiaogangZhangeBandoYoshiobfg YusukeYamauchi, Nanoenergy.vol.65, 103991	2019	16.6
23.	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.Inorganic Chemistry: including bioinorganic chemistry, 58 7989-7996.	2019	4.827
24.	Capacitive deionization using nitrogen-doped mesostructured carbons for highly efficient brackish water desalination. (2019) Xingtao Xu, Abeer Enaïet Allah, Chen Wang, Haibo Tan, Ahmed A Farghali, Mohamed Hamdy Khedr, Victor Malgras, Tao Yang, Yusuke Yamauchi. Chemical Engineering Journal, vol. 362, page 887-896.	2019	10.625
25.	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, Chem. Electro Chem. In press	2019	4.15
26.	Nanocomposite system of simultaneously-thiolated graphene oxide and polyaniline nanofibers for energy storage applications. (2019) Electrochimica ActaM. Farid, M.A.F. Basha, A.H. Zaki, M.H. Khedr. Vol. 300, 1-8	2019	6.225
27.	Synthesis and multifunctionality of (CeO ₂ -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
28.	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
29.	CO ₂ responses based on pure and doped CeO ₂ 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
30.	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
31.	Estimation The Median Lethal Dose and Inhibitory Concentration of TiO ₂ , SiO ₂ , ZnO and CuO Nanoparticles on Human Hepatoma HEPG2 Cells, 2017, AM Shaker, A El-Shahawy, AH Zaki, Elham F Abdel-Rahim,	2017	3.2

	MH Khedr INTERNATIONAL JOURNAL OF PHARMACEUTICAL and HYTOPHARMACOLOGICAL RESEARCH, 7, (6), 18-23.		
32.	Alginate-based nanocomposites for efficient removal of heavy metal ions. Esmat M1, Farghali AA1, MH Khedr, El-Sherbiny IM2.	2017	14.4
33.	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
34.	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
35.	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
36.	Properties of pure and (Gd, Sm) doped CeO₂ nano-particles. MH Khedr, AA Fargali, WMA El Rouby, AA Aboud, A Hamdedein. International Journal 3 (3), 866-872	2015	0.7
37.	Efficiency, Kinetics and Thermodynamics of Toluidine Blue Dye Removal 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	2014	1.6
38.	TiO₂ nanotubes filled with NiFe₂ O₄ quantum dots or Ni-Fe nanoalloy. MY Mohassab-Ahmed, AF Moustafa, AA Farghali, HY Sohn, MH Khedr. Minerals, Metals and Materials Society	2014	1.14
39.	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
40.	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
41.	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	-
42.	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
43.	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
44.	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.	2013	4.65

	Applied Nanoscience 3 (3), 251-261		
45.	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
46.	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
47.	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
48.	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
49.	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
50.	Synthesis and characterization of novel conductive and magnetic nanocomposites. AA Farghali, M Moussa, MH Khedr. Journal of Alloys and Compounds 499 (1), 98-103	2010	1.85
51.	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
52.	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
53.	Synthesis and photocatalytic activity of nano-sized iron oxides. MH Khedr, KSA Halim, NK Soliman Materials Letters 63 (6), 598-601	2009	2.132
54.	Kinetics of acetylene decomposition over reduced strontium hexaferrites catalyst for the production of carbon nanotubes. MH Khedr, AA Farghali, AF Moustafa, MK Zayed. International Journal of Nanoparticles 2 (1-6), 430-442	2009	6.182
55.	Effect of temperature on the kinetics of acetylene decomposition over reduced iron oxide catalyst for the production of carbon nanotubes. MH Khedr, KSA Halim, NK Soliman. Applied Surface Science 255 (5), 2375-2381	2008	1.256
56.	Effect of additives on the reduction behaviour and CO₂ catalytic decomposition of nanocrystallite Fe₂O₃ MH Khedr, M Bahgat, MI Nasr, EK Sedeek Mineral Processing and Extractive Metallurgy 117 (4), 240-247	2008	1.738
57.	Low temperature isothermal reduction behaviour of hydrothermally precipitated CuFe₂O₄/MgFe₂O₄ core/shell nanocrystallites. M Bahgat, MH Khedr, WMA El Rouby Materials Technology 23 (4), 224-230	2008	4.65
58.	Carbothermic reduction kinetics of nanocrystallite Fe₂O₃/NiO composites for the production of Fe/Ni alloy KS Abdel-Halim, MH Khedr, MI Nasr, MS Abdel-Wahab Journal of alloys and compounds 463 (1), 585-590	2008	4.142

59.	Preparation of silica nanoparticles from semi-burned rice straw ash. RR Zaky, MM Hessian, AA El-Midany, MH Khedr, EA Abdel-Aal, ...Powder technology 185 (1), 31-35	2008	1.738
60.	Photocatalytic activity and magnetic properties of nanocrystallite strontium hexaferrite prepared by self-flash combustion. AA Farghali, MH Khedr, AF Moustafa Materials Technology 23 (2), 104-109	2008	2.6
61.	Phase and conductivity dynamics of strontium hexaferritenanocrystals in a hydrogen gas flow. AA Fargali, MK Zayed, MH Khedr, AF Moustafa. International Journal of Physical Sciences 3 (5), 131-139	2008	3.905
62.	CO ₂ decomposition over freshly reduced nano-crystallite Cu _{0.5} Zn _{0.5} Fe ₂ O ₄ at 400–600 °C. MH Khedr, KSA Halim, AH Zaki. Journal of Analytical and Applied Pyrolysis 81 (2), 272-277	2008	1.738
63.	Reducibility and magnetic properties of nanosized ZnO substituted Fe ₂ O ₃ /TiO ₂ system. M Bahgat, MH Khedr, HS Abdelmaksoud. Materials Technology 23 (1), 39-44	2008	1.738
64.	Reduction of FeVO ₄ to synthesize nanocrystalline ferrovanadium alloy. M Bahgat, MH Khedr, MK Shaaban Materials Technology 23 (1), 13-18	2008	2.406
65.	Catalytic Oxidation of CO Gas over Nanocrystallite Cu _x Mn _{1-x} Fe ₂ O ₄ . KSA Halim, AM Ismail, MH Khedr, MF Abadir. Topics in Catalysis 47 (1-2), 66-72	2008	1.738
66.	Synthesis, magnetic properties and photocatalytic activity of CuFe ₂ O ₄ /MgFe ₂ O ₄ and MgFe ₂ O ₄ /CuFe ₂ O ₄ core/shell nanoparticles. MH Khedr, M Bahgat, WMAE Rouby Materials Technology 23 (1), 27-32	2008	-
67.	Kinetics of Acetylene Decomposition over Reduced Strontium Hexaferrites Catalyst for the Production MH Khedr, MK Zayed, AA Farghali, AF Moustafa International Conference on Nanotechnology: Opportunities and Challenges	2008	-
68.	Nanomaterials: A Solution for Environmental Problems “A Cheap CO ₂ Removal by Freshly Reduced Nanopar MH Khedr, KSA Halim, MI Nasr, AM El-Mansy International Conference on Nanotechnology: Opportunities and Challenges	2008	-
69.	Acetylene Decomposition over Nano-Catalyst for the Production of Carbon Nanotubes. MH Khedr, MK Zayed, AA Farghali, AF Moustafa. International Conference on Nanotechnology: Opportunities and Challenges	2008	-
70.	Nanomaterials: A Solution for Environmental Problems “CO Removal over Nano-Sized Iron Oxide” MH Khedr, KSA Halim, MI Nasr, AM El-Mansy. International Conference on Nanotechnology: Opportunities and Challenges	2008	1.256
71.	Physicochemical characterisation of nanosized V/Fe ₂ O ₃ reaction products. M Bahgat, MH Khedr, M Radwan, MK Shaaban. Mineral Processing and Extractive Metallurgy 116 (4), 217-220	2007	3.905
72.	Kinetics and mechanisms of the reduction of Cu _{0.5} Zn _{0.5} Fe ₂ O ₄ with hydrogen at 400–600 °C for the production of metallic nanoparticles. KSA Halim, MH Khedr, AH Zaki Journal of analytical and applied pyrolysis 80 (2), 346-352	2007	1.738

73.	Reduction and magnetic properties of nanocrystalline MgFe ₂ O ₄ /CuFe ₂ O ₄ core/shell particles in flowing hydrogen at 400–700° C. MH Khedr, M Bahgat, WMA El Rouby. Materials Technology 22 (3), 133-138	2007	1.738
74.	Reduction kinetics, photocatalytic activity and magnetic properties of CoFe ₂ O ₄ /BaFe ₁₂ O ₁₉ core/shell nanoparticles. M Bahgat, MH Khedr, SA Abdel-Moaty Materials Technology 22 (3), 139-146	2007	4.669
75.	Effect of Cu ²⁺ on the magnetic properties and reducibility of Fe ₂ TiO ₅ . MHKhedr, M Bahgat, M Radwan, HS Abdelmaksoud. Journal of materials processing technology 190 (1), 153-159	2007	3.99
76.	CO ₂ decomposition over freshly reduced nanocrystalline Fe ₂ O ₃ . MH Khedr, M Bahgat, MI Nasr, EK Sedeek Colloids and Surfaces A: Physicochemical and Engineering Aspects 302 (1) ...	2007	4.19
77.	Catalytic activity and magnetic properties of barium hexaferrite prepared from barite ore. MM Hessien, MH Khedr. Materials research bulletin 42 (7), 1242-1250	2007	4.652
78.	Reduction kinetics, magnetic behavior and morphological changes during reduction of magnetite single crystal M Bahgat, MH Khedr. Materials Science and Engineering: B 138 (3), 251-258	2007	4.019
79.	Factors affecting CO oxidation over nanosized Fe ₂ O ₃ KSA Halim, MH Khedr, MI Nasr, AM El-Mansy Materials research bulletin 42 (4), 731-741	2007	4.019
80.	Physicochemical properties of solid–solid interactions in nanosized NiO-substituted Fe ₂ O ₃ /TiO ₂ system at 1200 C MH Khedr, MS Sobhy, A Tawfik. Materials research bulletin 42 (2), 213-220	2007	2.05
81.	Effect of firing temperature and reducing gas composition during low-temperature reduction of nanocrystalline Fe ₂ O ₃ . M Bahgat, MH Khedr, MI Nasr, EK Sedeek Metallurgical and Materials Transactions B 38 (1), 5-11	2007	3.905
82.	Microstructure, kinetics and mechanisms of nano-crystalline CuFe ₂ O ₄ reduction in flowing hydrogen at 300–600° C for the production of metallic nano-wires MH Khedr, AA Farghali, AA Abdel-Khalek. Journal of analytical and applied pyrolysis 78 (1), 1-6	2007	1.738
83.	Synthesis, magnetic and photocatalytic activity of CuFe ₂ O ₄ /MgFe ₂ O ₄ and MgFe ₂ O ₄ /CuFe ₂ O ₄ core/shell nanoparticles. MH Khedr, M Bahgat, WMA El Rouby Materials Technology 22 (4), 1	2007	1.85
84.	Influence of Zn ²⁺ or Cu ²⁺ on reduction and recalcination behavior of Fe ₂ TiO ₅ . M Bahgat, MH Khedr, HS Abdelmaksoud. JOURNAL OF MATERIALS SCIENCE AND TECHNOLOGY-SHENYANG-23 (5), 697-702	2007	4.669
85.	Catalytic decomposition of carbondioxide over freshly reduced activated CuFe ₂ O ₄ nano-crystals AA Farghali, MH Khedr, AAA Khalek. Journal of materials processing technology 181 (1), 81-87	2007	4.652
86.	Reduction of carbon dioxide into carbon by freshly reduced CoFe ₂ O ₄ nanoparticles. MH Khedr, AA Omar, SA Abdel-Moaty. Materials Science and Engineering: A 432 (1), 26-33	2006	4.652

87.	Effect of temperature on the catalytic oxidation of CO over nano-sized iron oxide. MH Khedr, KSA Halim, MI Nasr, AM El-Mansy. Materials Science and Engineering: A 430 (1), 40-45	2006	3.905
88.	Effect of firing temperature on microstructure and magnetic properties of nanocrystalline Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ prepared by wet and dry methods. MH Khedr, AA Omar, MI Nasr, EK Sedeek. Journal of analytical and applied pyrolysis 76 (1), 203-208	2006	3.99
89.	Magnetic nano-composites: preparation and characterization of Co-ferrite nanoparticles. MH Khedr, AA Omar, SA Abdel-Moaty. Colloids and surfaces A: Physicochemical and engineering aspects 281 (1), 8-14	2006	1.85
90.	Effect of temperature on reduction of nanocrystalline Fe ₂ O ₃ into metallic iron. M Bahgat, MH Khedr, MI Nasr, EK Sedeek. Materials science and technology 22 (3), 315-320	2006	1.85
91.	Effect of Ni ²⁺ -substituted Fe ₂ TiO ₅ on the H ₂ -reduction and CO ₂ Catalytic Decomposition Reactions at 500°C MH Khedr. JOURNAL OF MATERIALS SCIENCE AND TECHNOLOGY-SHENYANG-(6), 846-850	2006	1.128
92.	Magnetic and catalytic properties of Cu _{0.5} Zn _{0.5} Fe ₂ O ₄ nanocrystallite powders. MM Rashad, MH Khedr, KS Abdel-Halim. Journal of nanoscience and nanotechnology 6 (1), 114-119	2006	3.905
93.	Isothermal reduction kinetics at 900–1100 C of NiFe ₂ O ₄ sintered at 1000–1200 C. MH Khedr. Journal of analytical and applied pyrolysis 73 (1), 123-129	2005	-
94.	Magnetic, Electric and Catalytic Properties of Nanosized Copper Manganese Ferrite. AM Ismail, MF Abadir, MHKhedr.	2005	1.85
95.	Physicochemical properties of nanocrystallite copper ferrite prepared by a novel self flash combustion of acetate precursors. MH Khedr, AA Farghali. JOURNAL OF MATERIALS SCIENCE AND TECHNOLOGY-SHENYANG—680	2005	1.405
96.	Reduction behaviour of iron ore fluxed pellets under load at 1 023-1 273 K. AA El-Geassy, MI Nasr, MH Khedr, KS Abdel-Halim. ISIJ international 44 (3), 462-469	2004	1.256
97.	Effect of firing temperature and compacting pressure on the magnetic and electrical properties of nickel ferrite MH Khedr. Physicochemical Problems of Mineral Processing 38, 311-320	2004	4.142
98.	The role of normal and activated bentonite on the pelletization of barite iron ore concentrate and the quality of pellets. OA Mohamed, MEH Shalabi, NA El-Hussiny, MH Khedr, F Mostafa. Powder technology 130 (1), 277-282	2003	3.99
99.	Gadolinium oxide from gadolinium oxalate hydrate physicochemical characterization. GAM Hussein, MH Khedr, AA Farghali. Colloids and Surfaces A: Physicochemical and Engineering Aspects 203 (1 ...	2002	-
100.	Effect of lime addition on the palletization of high barite iron ore concentrate. YMZ Ahmed, MH Khedr, FM MUHAMED, OA Mohamed, MEH Shalabi. Egyptian journal of chemistry 45 (2), 251-271	2002	1.352
101.	Behavior of iron ore–fuel oil composite pellets in isothermal and non-isothermal reduction conditions AA El-Geassy, MH Khedr, MI Nasr, MS Aly. Ironmaking& steelmaking 28 (3), 237-243	2001	1.405
102.	Isothermal reduction kinetics of Fe ₂ O ₃ Mixed with 1–10% Cr ₂ O ₃ at 1173–1473 K. MH Khedr. ISIJ international 40 (4), 309-314	2000	1.352

103.	Behavior of manganese oxides during magnetising reduction of Baharia iron ore by CO–CO ₂ gas mixture AA El-Geassy, MI Nasr, MA Yousef, MH Khedr, M Bahgat Ironmaking& steelmaking 27 (2), 117-122	2000	1.352
104.	Behaviour of iron ore–fuel oil composite pellets in isothermal and non-isothermal reduction conditions AA El-Geassy, MH Khedr, MI Nasr, MS Aly. Ironmaking& steelmaking 28 (3), 237-243	2001	1.405
105.	Isothermal reduction kinetics of Fe ₂ O ₃ Mixed with 1–10% Cr ₂ O ₃ at 1173–1473 K. MH Khedr. ISIJ international 40 (4), 309-314	2000	1.352
106.	Behaviour of manganese oxides during magnetising reduction of Baharia iron ore by CO–CO ₂ gas mixture AA El-Geassy, MI Nasr, MA Yousef, MH Khedr, M Bahgat Ironmaking& steelmaking 27 (2), 117-122	2000	1.205
107.	Studies on palletization, induration and reduction of mill scale. MH Khedr, YMZ Ahmed, O Mohammed. Transactions of the Indian Institute of Metals(India) 52 (6), 363-373	1999	-
108.	The role of calcium hydroxide in the production of iron oxide (mill scale) pellets. YMZ Ahmed, MH Khedr, OA Mohamed, MEH Shalabi. Fizykochemiczne Problemy Mineralurgii, 31-42.	1997	-
109.	Effect of nickel oxide doping on the kinetics and mechanism of iron oxide reduction. MI Nasr, AA Omar, MH Khedr, AA El-Geassy ISIJ international 35 (9), 1043-1049	1996	1.405
110.	Study on using dolomite instead of limestone as fluxing material during sintering process and effect on the reduction and mechanisms. MH Khedr, MH Abdel-Khalik, Fizykochemiczne Problemy Mineralurgii/Physicochemical Problems of Mineral	1995	

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 grant to establish a Centre of Excellence in Nanotechnology with fund (8.5 M EGP) and the university Honored me by Naming the center "Prof. Mohamed Khedr's Centre of Excellence in Nanotechnology"