



**Faculty of Postgraduate Studies for Advanced
Sciences (PSAS), Beni-Suef University**



Research Plan 2020-2024

By PSAS Staff Members

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& scientific research committee of quality assurance unit

**Accredited by postgraduate and research affairs
committee in 7th March 2020, and**

PSAS faculty council in 8th March 2020



Chapter 1 contents:

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Beni-Suef University

Faculty of **P**ostgraduate **S**tudies for **A**dvanced **S**ciences (PSAS)

Cross-disciplinarity ↔ Partnerships



Our Success Story

In 2004, BSU became the leading house in Egypt of an interdisciplinary research effort, the center of Nanoscience and Nanotechnology (CNs Nt) which was established at the faculty of science to generate new ideas in Nanoscience and technology. The concept of an interdisciplinary education programs for the Nanoscience came into existence at 2012 by establishing a faculty of postgraduate studies for advanced sciences (PSAS).

At 2011, **M.H.Khedr** Professor of materials science and Nanotechnology developed this vision of interdisciplinary education. Without obstacles; Khedr; founding father of CNsNt and PSAS with the help of his colleagues including professor **A.A. Farghali**, **W. M.A.Elrouby** and **A.H. Zaki** were cooperating in the executive planning for the establishment of the faculty at BSU

BSU University council supported the foundation of PSAS by affording the suitable infrastructure and recruiting staff members who worked in the disciplines opened since then.

The faculty was established by the presidential decree N° 809-2013 dated March 4, 2013

Faculty of postgraduate Studies for advanced sciences is unique in offering diplomas, M.Sc. and Ph.D. degrees

Vision

- The vision of the faculty is to become a unique scientific school in carrying out researches and advanced studies among universities, local, regional and global institutions. Additionally, to contribute in solving the industrial problems and achieving sustainable development goals tackling EGYPT vision 2030

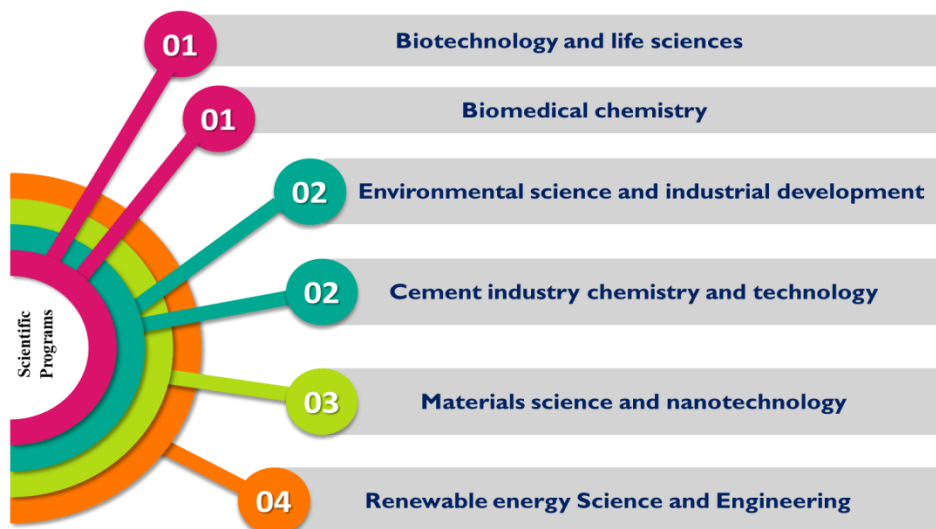


Mission

The mission of the faculty is to get ready with qualified and professional postgraduates with excellent research skills to meet the needs of the society able to

- Contribute in studying and solving the local, regional and global industrial and environmental issues.
- Work in developing and supporting research resources to fulfill needs
- Prepare appropriate culture for research and innovation excellence and measure its rates, benchmarking with the international standards
- Build partnerships with various national and international institutions (academic and stakeholders) concerned with scientific research and development.
- Empower knowledge with global innovations
- Cooperate in team works of multidisciplinary trends towards internationalization of their research.
- Discovering and disseminate research and transform it into innovation
- Production of prototypes and filing patents
- Meet local market needs using our made products; attempt to begin start up company

PSAS is divided into 4 main departments offering Diplomas, M.Sc. and Ph.D. degrees on international basis (for M.Sc. one and for Ph.D. two{ scopus and/or isi indexed accepted article and international eminent scientist report on the thesis, in the following programs})



Faculty Founder

Prof. Mohammad .H. Khedr



I have an image of our faculty four Departments namely most important interdisciplinary areas. I saw it from the beginning as 4 - gears engine where each one is heavy-duty, while they are shooting independently; they have a large area of interference between them. You are expecting to know what happens when an engine is out of tune; you need a timing belt regulation. You must have to work hard to get all of those pistons firing together harmonically. When successful, the engine (PSAS) moves the University (BSU) forward. This strategic plan is a fine tuning research-education process that will transform our faculty. In five years, the results were better than expected with such excellent distinguished multidisciplinary team members.

M.H.Khedr

Prof. Materials Science and Nanotechnology
Founder and First Dean of PSAS



Dean of PSAS
Prof. Ahmed .A.Faghali



Dear Colleagues, Friends and Students of PSAS,

Fast-changing environmental, technological, health and sociological demands, including energy, water and food crisis will draw a new profile for our future. These changes will shape our research, student education training and community networks. PSAS is privileged to have strong allied partnerships both national or international (SDG17) to provide BSU an opportunity to be research oriented University not only among Egyptian Universities but also worldwide in different subject categories as was announced in different ranking *THE*, *QS*, *Shanghai*. As a faculty, we work in a coordinated way to meet these challenges. Our strategic plan is a roadmap for us to improve our theme with seven strategic priorities:

- Egypt vision 2030- SDGs
- Ensuring Successful Research based Education Platform
- Advancing Research and Innovation
- Empowering Global Innovation
- Bridging between academy and Industry
- Championing Environmental and Energy Awareness
- Encouraging response to local market needs by prototyping, patents and PSAS special products.

PROGRAMS OF DISTINCTION

PSAS has existing areas of excellence now nominated as *Programs of Distinction*, favored consideration for investment of education and research resources, marketing, fundraising and society communication services. These initiatives will focus on solving big societal problems by addressing directly SDG4, 5, 16 and 17 to keep distinction

- 1- Materials Science and nanotechnology {SDG4, 5, 9, 12 and 17}
- 2- Biotechnology and life Sciences {SDG2, 3, 4, 5, 17}
- 3- Environmental Sciences and Industrial Development {SDG4,5,6, 11 and 17}
- 4- Renewable energy Science and Engineering {SDG4, 5, 7, 9, 11 and 17}

BRIGHT FUTURE

Our strategic planning process recognized ways PSAS subsidizes to constructing better communities, but also identified several issues to tackle. We designed a research plan to make a difference by asking more from ourselves in enhancing student success, faculty research excellence, diversity, and innovation through our *Programs and Centre of Excellence*. I want to thank you for being a part of our strategic planning activities and invite you to continue to be involved in our process of evolving PSAS because this plan benefits you: students, faculty, staff, alumni, industry partners, and citizens. Only by working together can we shape the future that we all visualize for PSAS-BSU.

Please join me, as together we will motivate PSAS to distinction.

A.A.Farghali

Prof. Materials Science and Nanotechnology

Dean of PSAS and Executive manager of Beni-Suef University development Centre

Vice dean for postgraduate and research affairs
Assoc. Prof. S.I.El-Dek



The research planning process has been all-embracing, bridging 12 months, engaging staff, students, alumni and stakeholders from across PSAS- BSU. In an endeavor to be comprehensive, inclusive and forward-looking, our improvement process consisted of 6 main phases: Idea Generation; Brain Storming; Surveys; Evaluation of the last 5 years outputs, Analysis of Results and Refining; Finalizing and Launching the plan for 2020-2024.

In Numbers (2015-2019)

- ✚ 5 International conferences (last one <http://www.icas5.bsu.edu.eg/>)
- ✚ 25 group discussions including research and postgraduate committee of PSAS
- ✚ 50 Workshops and evaluations
- ✚ 10 Societal meetings with non-academic Sectors
- ✚ 5 training and 2 employability fairs
- ✚ 15 Consultation visits
- ✚ 5 Master classes in Publications (Nature, IOP, Springer, Scival, Clarivate)
- ✚ More than qualitative 2000 Survey
- ✚ Analysis of 500 Survey concerning Research Plans

S.I.El-Dek

Ass.Prof. of Physics-Materials Science and nanotechnology

Vice dean for postgraduate and research affairs

Director of the international ranking office, BSU

Vice dean for Environmental and society affairs

Prof. Walaa Moselhy



Together for a better environment

We are always seeking for possible involvement with society SDG 9, 11 and 17, and help to solve all environmental related issues

We are distinguished by our department (Environmental Science and Industrial Development) tackling SDG 4, 5,6, 11, 12 and 17

We adhered closely with the SDS and Egypt vision 2030 as we taught a variety of courses related to the water management SDG6, Energy SDG7 and Environmental assessment SDG11, 12 and 17

Also, we have a large number of registered thesis and funded project in these multidisciplinary fields

Walaa Moselhy

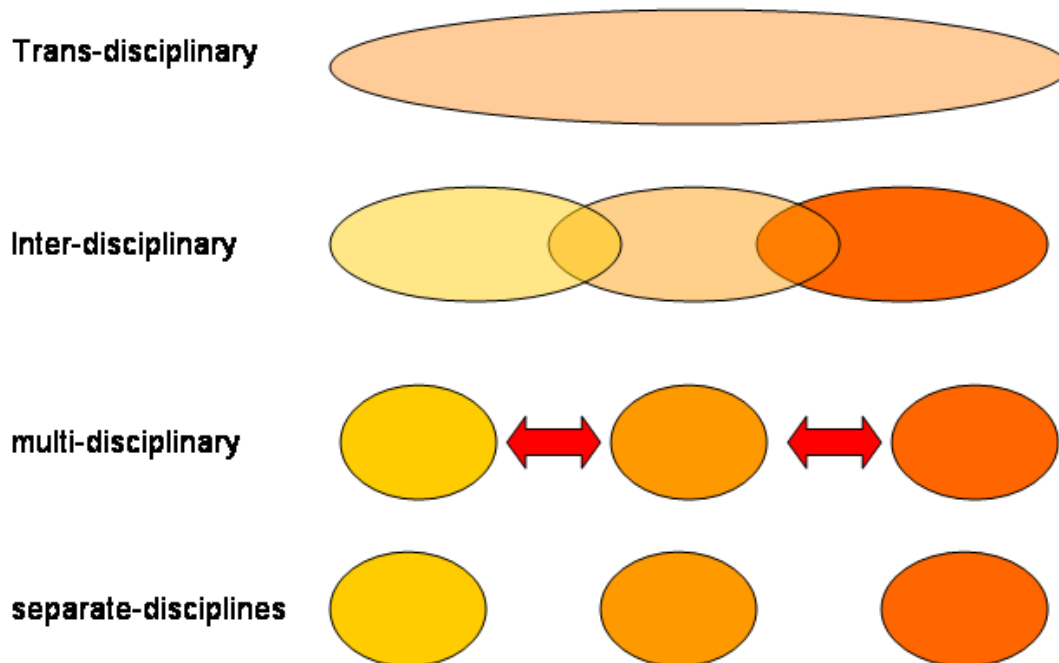
Prof. of Forensic Medicine and Toxicology, BSU

Vice dean for Environmental and society affairs

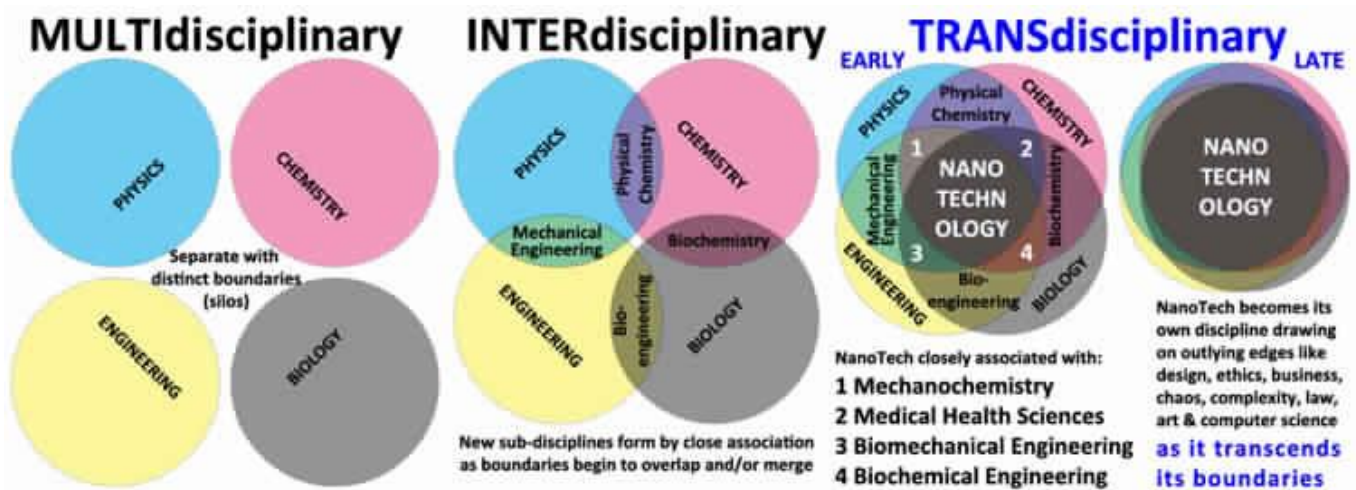
Photo gallery of some events concerning Research planning discussion



Here is a simple explanation of the different types of research disciplines as color representation



Another clear simple example is the NANOTECHNOLOGY



From Multidisciplinary to Interdisciplinary to Cross Disciplinary Research

Trans disciplinary or in other words Cross-disciplinary research is encouraged as a way of improving understanding of the diversity of environmental, technological, health, energy issues.

Cross-disciplinary projects, centres and academic institutes have increased worldwide and we were the first governorate university in establishing such faculty (PSAS) at 2014.

A prospective result of cross-disciplinary research is the stronger linkages it may build, not only between researchers but also between researchers and non academic practitioners.

Beneficial outcomes of Cross disciplinary research and Education

- 1- increasing the relevance of the research to practice and policy (O'Fallon & Dearry 2002);
- 2- improving the research focus by clarifying the focus of research (Sutherland et al. 2006);
- 3- improving learning/adapting as a result of the research process (Fazey et al. 2005a; Reed 2008);
- 4- facilitating the uptake of research results and encouraging best practices (Carlsson & Berkes 2005).
- 5- involving practitioners can enhance scientific understanding and increase project sustainability (Colding & Folke 2001; Stringer et al. 2006; Reed 2008)

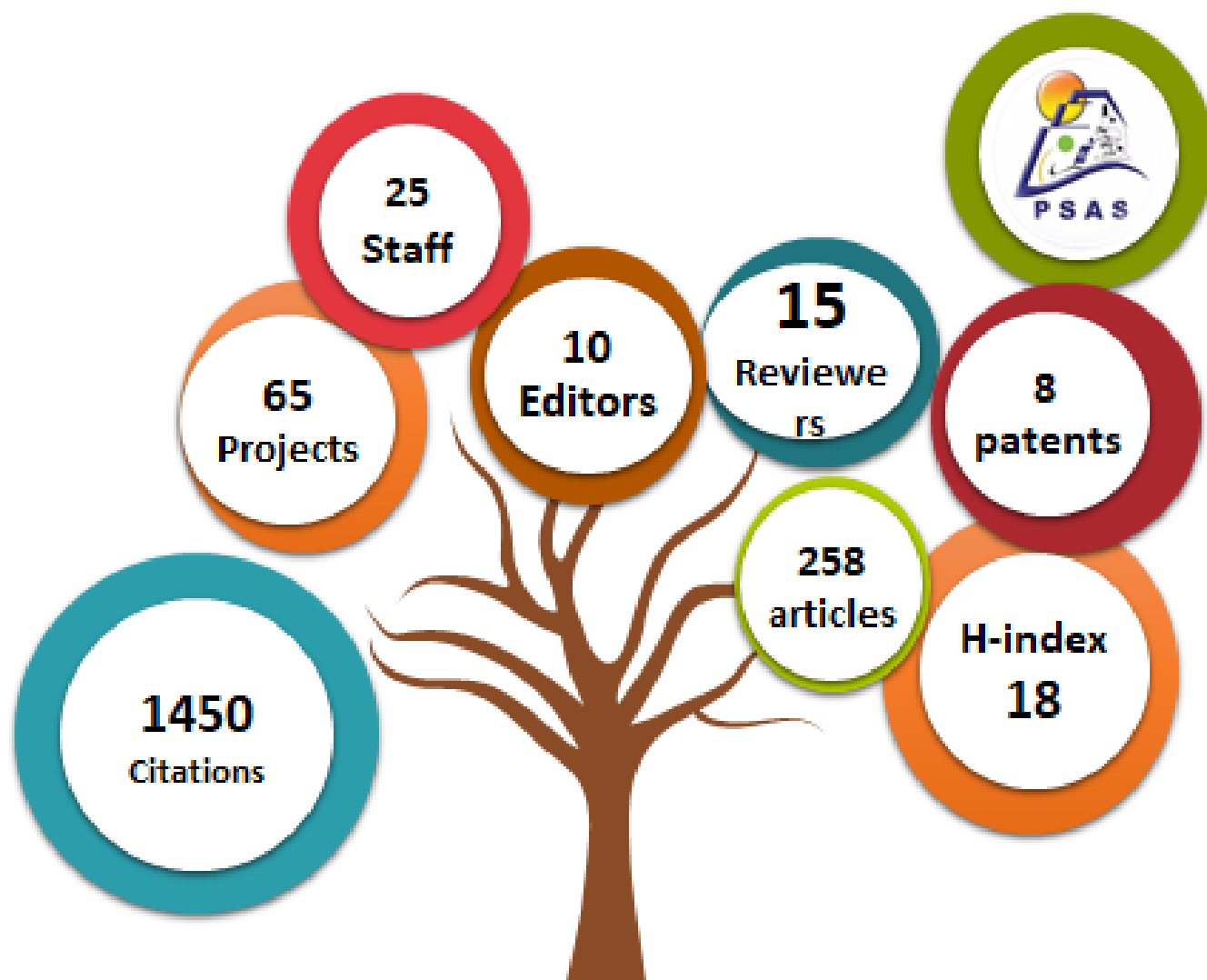
Work in partnership with investigators outside your own field involves more than just adding a coauthor to an article, review, book or proposal. True collaborations will not always be without conflict. Navigating the encounters of cross-disciplinary research effectively can lead to substantial rewards in terms of career development and predominantly to the enhancement of scientific understanding.

In the face of the challenge, cross-disciplinary research collaborations have the prospective to be stimulating and productive for all involved academics and non- academics. These interactions must be raised from the initial stage to cultivate into long-term partnerships, leading to resourceful breakthroughs and high-impact scientific discoveries.

References:

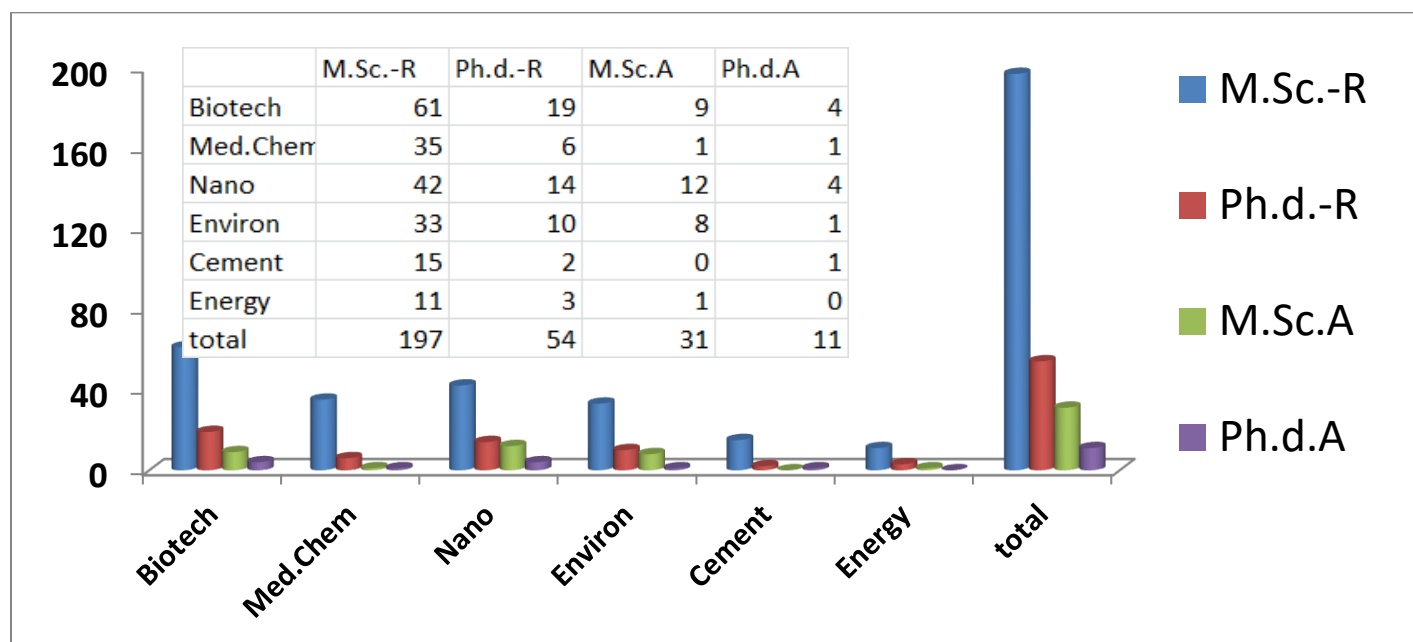
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PSAS- analytical report (2015-2019)



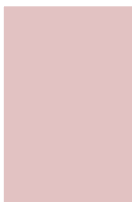
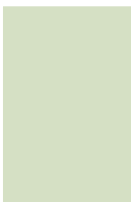
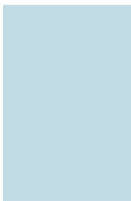
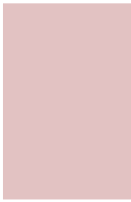
Be Proud- U R at Beni-Suef University- PSAS

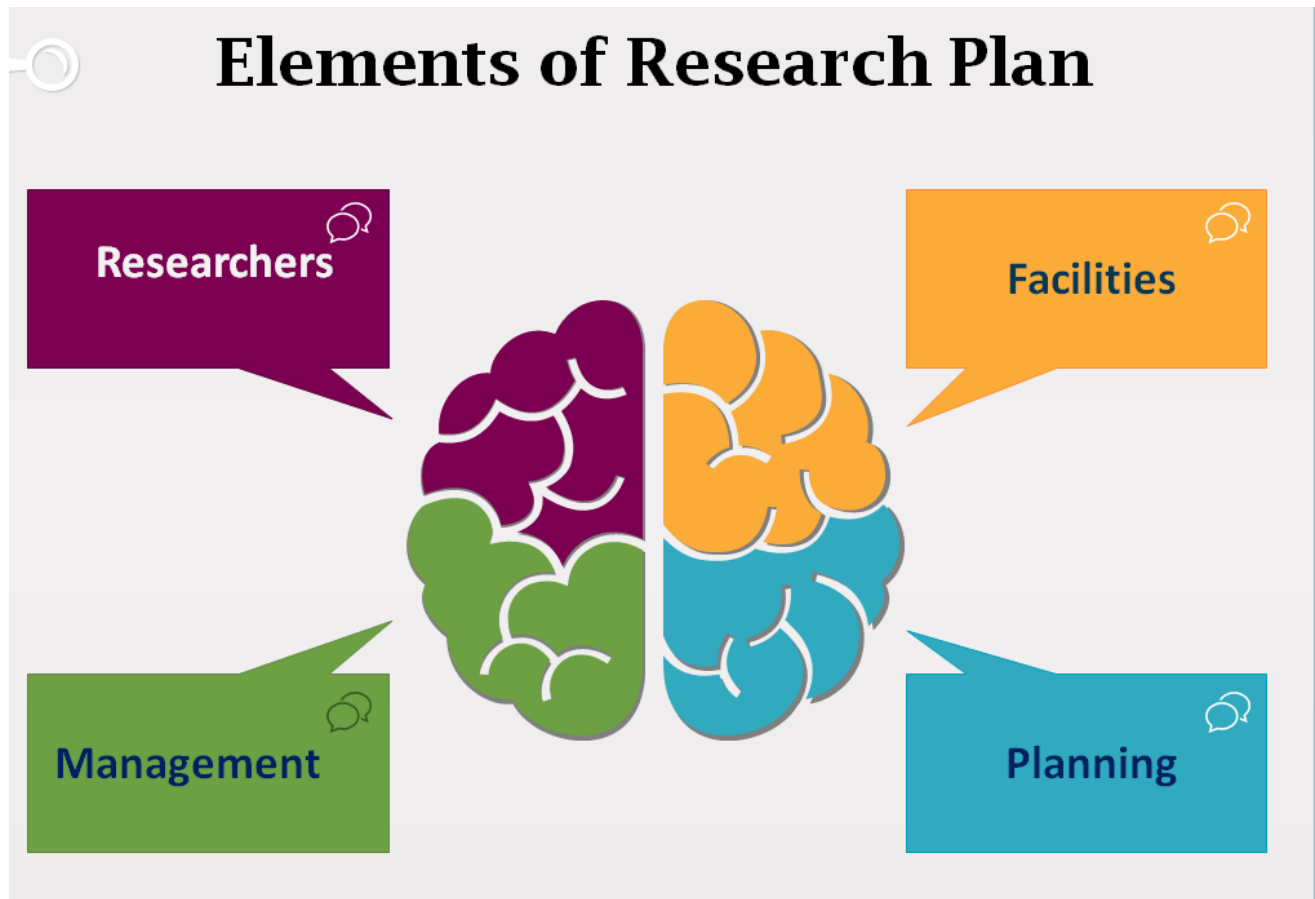
From Scopus March2020



Number of Registered (R) and awarded (A) M.Sc. and Ph.d. Theses in the different programs 2014-2019 at PSAS

New Programs (opening Soon)

	Quality Control (Prof. Master)		Environmental and Human Heritage
	Chemical Biology		Environmental Toxicology
	Biomedical Physics		Stem Cell Biology



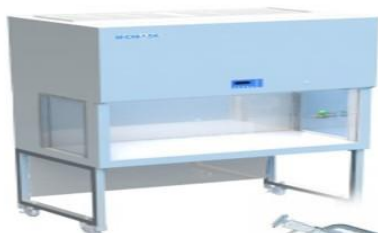
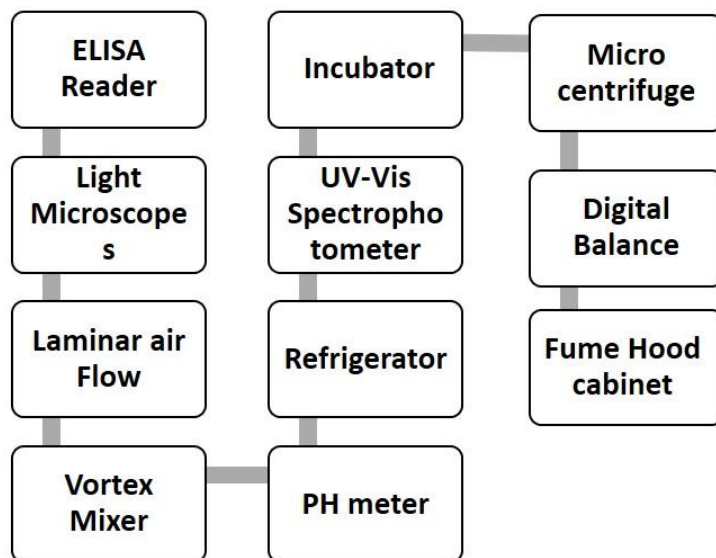
PSAS Research Facilities

Biotechnology and Life Sciences Department

Biotech Lab



Biomedical Chemistry Lab



Environmental Sciences and Industrial Development Department

Environmental Science Lab



Materials Science and Nanotechnology Department



Autolab/PGSTAT302N Potentiostat,



Plasma enhanced CVD



DC sputtering (PH100RPV), Photon, Egvpt: [Link](#)



Zetasizer Nano ZS90, Malvern, UK- [Link](#)



Solar Simulation (94021A), Oriel inst., USA: [Link](#)



BET-Surfacearea analyzer Gemini VII 2390 Analyzers, Micromeritics, USA: [Link](#)



Metallurgical Microscope (NJF- 120A),



LCR Meter (Hioki 3532-50), HIOKI,



Ultrasonic Processor (VCX 500), Hainertec,



UV-VIS spectrophotometer (T80), PG inst.



Microwave Reaction System: Multiwave PRO, Anton Paar, Austria:



Electrospinning, hand-made



Cooling Centrifuge (MPW-260R), MPW
Med. Inst., Poland: [Link](#)



Centrifuge (PLC-036), Gemmy Co., Taiwan:
[Link](#)



Muffle Furnace (DMF-12), DAIHAN Scientific,



Ball mill, Photon, Egypt: [Link](#)



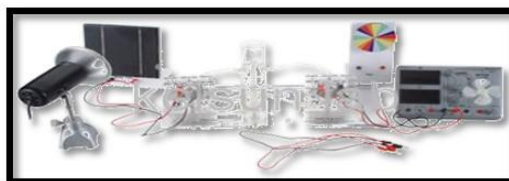
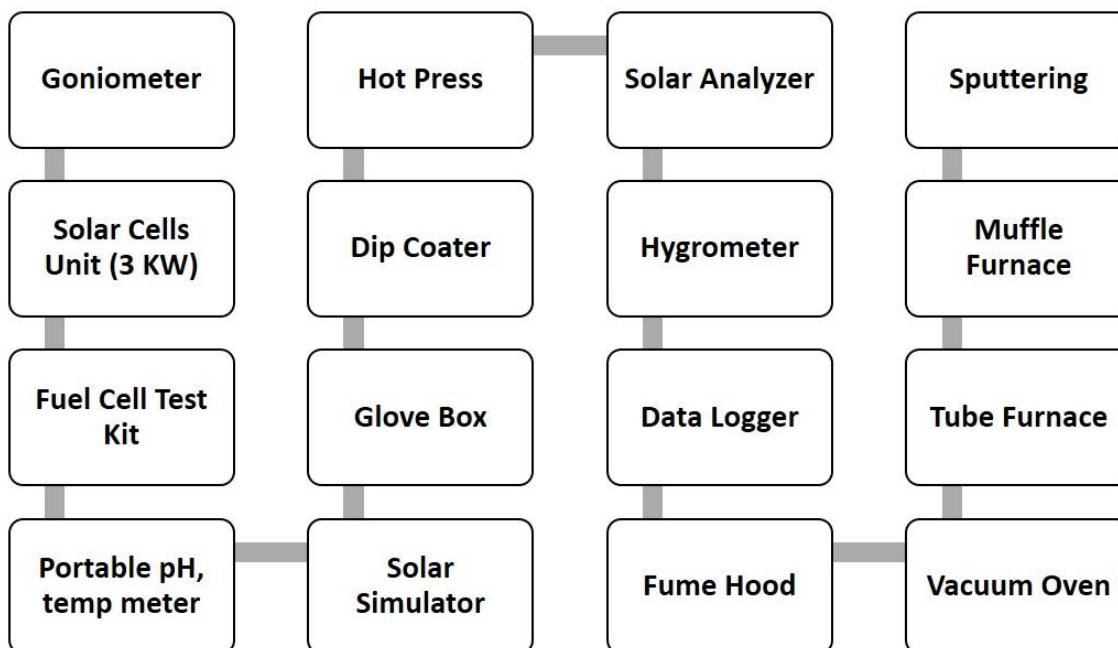
Dryer (WOF-155), Daihan Scientific, Korea: [Link](#)



Tube furnace (TF-80), Lab house, Korea:
[Link](#)

Renewable Energy Science and Engineering Department

Renewable energy lab



Central laboratory facilities

GC-Mass



GC-MS is used for separation and analysis of the compounds that can be vaporized without decomposition. It is combined with mass spectroscopy to identify different substances within a sample.

HPLC-MS



- **HPLC-MS** used for separation of compounds that are thermally unstable and exhibit high polarity. It is combined with mass spectroscopy to identify different components within a sample.

Atomic Absorption (Flame & Graphite)



- It is used to identify the accurate concentration of substances by analyzing the spectrum produced when a substance is vaporized and absorbs certain frequencies of light eg. **Heavy metals**.

XRD (X-ray diffraction)



- **XRD** is used for phase identification along with phase quantification and crystallite size for all powdered samples.

FT-IR and FT-Raman



- **FT-IR** is used for identifying of certain function groups in a molecule.
- **Raman** is a complementary to IR used to measure the compounds that are inactive IR such as inorganics which have no dipole moments.

UV-VIS Spectrophotometer



- It is used for the quantitative determination of different analytes such as:
- transition metal ions, conjugated organic compounds and biological macromolecules.



Chapter 2 contents:

Page No.	Topic
1	Egypt vision 2030
1	Overview of PSAS research vision & goals
3	Research Plan of Biotechnology and Life Sciences Department
6	Research Plan of Environmental Sciences and Industrial Development Department
10	Research Plan of Materials Science and Nanotechnology Department
16	Research Plan of Renewable Energy Science and Engineering Department



Sustainable Development Strategy SDS symbolizes the roadmap for maximizing competitive benefit to achieve the thoughts and aspirations of Egyptians in a decent life.

It also denotes an example of the new constitution's essence, setting wellbeing and wealth as the main economic objectives, to be achieved via sustainable development, social justice and a balanced, geographical and sectoral growth.



At our university, BSU, last year we achieved most of the goals and we were ranked 201-300 worldwide (THE impact ranking)

Based on our distinguished research tracks and uniqueness of our faculty (PSAS) as a prototype of research educational platform that was funded at 2013, we already follow the SDGs as we have 4 departments: environmental science and industrial development- Renewable science and Engineering- Biotechnology and life science-materials science and nanotechnology.



Faculty of Postgraduate studies for advanced science is a unique mixed research educational platform aimed to mingle all young scientists together to obtain excellent outputs

Our strategic plan has been to develop strong research programs alongside our education activities to bridge between industry, society and academia.

We aimed also to educate researchers to work in team and to improve scientific research awareness as well as the global innovation index

We intended to establish our research plan for the next five years adhering to the strategic development goals according to Egypt vision 2030

The 17 sustainable development goals (SDGs) to transform our world:

GOAL 1: No Poverty

GOAL 2: Zero Hunger

GOAL 3: Good Health and Well-being

GOAL 4: Quality Education

GOAL 5: Gender Equality

GOAL 6: Clean Water and Sanitation

GOAL 7: Affordable and Clean Energy

GOAL 8: Decent Work and Economic Growth

GOAL 9: Industry, Innovation and Infrastructure

GOAL 10: Reduced Inequality

GOAL 11: Sustainable Cities and Communities

GOAL 12: Responsible Consumption and Production

GOAL 13: Climate Action

GOAL 14: Life Below Water

GOAL 15: Life on Land

GOAL 16: Peace and Justice Strong Institutions

GOAL 17: Partnerships to achieve the Goal (regional- national- international) collaborations and funds (submitted projects- accepted)

Biotechnology and Life Sciences Department

(Towards Healthier Society)

Staff members:

- Assoc. Prof. Amr Elsayed (Head of Department)
- Assoc. Prof. Mai Raslan
- Dr. Ahmed Zakaria
- Dr. Ahmed Lotfy
- Dr. Ahmed Nabeel
- Dr. Mohammad Zanaty
- Dr. Ahmed Gamal Kamel
- Dr. Eman Gouda
- Dr. Ehab Eldomany
- MSc. Nada Elgeddawy
- MSc. Hasnaa Temsah
- Naglaa Wasfy

General Research fields	Specific topic/objective	Team members	Expected Outcomes (paper-patent-prototype)	Time line (2020-2025)	Thesis/ project/ research	Sustainable Development Goals (SDGs)	Funding Agencies
Natural Products	Enhancing the production or activity of the N.P	Committee	papers	2020-2023	4 Thesis +1 Project	3,4,5,17	Self-Funding + ASRT or STDF
Natural Products	Investigating possible novel biological activities for different N.P	Committee	papers	2022-2025	4 Thesis	3,4,5,17	Self-Funding
Medicinal chemistry	Design, synthesis and biological evaluation of kinase inhibitors' analogues	Committee	paper		1 Thesis + 1 project	3,4,5,17	Beni-Suef University
Medicinal chemistry	Design, synthesis and biological evaluation of new prodrugs	Committee	paper		1 Thesis	3,4,5,17	Self-Funding
Medicinal chemistry	Design, synthesis and biological evaluation of histone deacetylase inhibitors	Committee	paper		Research + project	3,4,5,17	Korea Institute of Science and Technology
Medicinal /organic chemistry	Synthesis of the core structure of certain natural products	Committee	paper		Research + project	3,4,5,17	Hanyang University, Korea
Chemical biology	Development of fluorescent probes for biological applications	Committee	Papers		3 Theses +1 Project	3,4,5,17	Korea Institute of Science and Technology
Nanobiotechnology	Loading anticancer drugs on carbon nanotubes	Committee	Paper		2 Theses +1 Project	3,4,5,17	Self-Funding
Nanobiotechnology	Novel nanoformulated system for treatment of chronic diseases	Committee	Paper and Msc thesis		1 Thesis	3,4,5,17	

Molecular biology	Study the molecular evidence of bone diseases	Committee	Paper and Msc thesis		1 Thesis	3,4,5,17	
Clinical chemistry	New sights for liver treatment	Committee			1 Thesis	3,4,5,17	
Clinical Molecular biology	SNPS IN Clinical applications	Committee	Papers		1 Thesis	3,4,5,17	
Clinical Molecular biology	Mediterranean Fever in Egyptian patients	Committee	Paper and Msc thesis		1 Thesis	3,4,5,17	
Clinical Molecular biology	Gene expression of non-coding RNA in malignancy	Committee	Paper and Msc thesis		1 Thesis	3,4,5,17	
Clinical Molecular biology	Profiling of miRNA in obsity	Committee	papers and MSC thesis and PHD		1 Thesis	3,4,5,17	
Clinical Molecular biology	Gene expression of obesity related gene	Committee	papers and MSC thesis and PHD		1 Thesis	3,4,5,17	
Clinical Molecular biology	Gene sequencing for aneuploidy in IVF	Committee	Paper and Msc thesis		1 Thesis	3,4,5,17	
Biomarkers of Cancer	Colon and prostate cancer Diagnosis	Committee	Paper or MSc		1 Thesis	3,4,5,17	Self-Funding
Bio-nanotechnology for Biomedical applications	Phage template of Nano particles	Committee	Paper or MSc		1 Thesis	3,4,5,17	Self-Funding
Natural product applications	Natural product for treatment and drug discovery	Committee	Paper or MSc		1 Thesis	3,4,5,17	Self-Funding
Regenerative medicine	Cell therapy	Committee	paper		1 Thesis	3,4,5,17	Self-Funding
Stem cell	Regenerative medicine ad cell therapy	Committee	paper		5 Thesis2 projects	3,4,5,17	Self-Funding
Molecular biology	Cancer therapy	Committee	papers		1 thesis	3,4,5,17	Self-Funding
Molecular Biology	Epidermal skin cell aging	Committee	papers		1 project	3,4,5,17	Self-Funding
The actual number of registered Master and Ph.D. degrees:- 148							

Environmental Sciences and Industrial Development Department

(Green and Sustainable Community)

Staff members:

- Assoc. Prof. Rehab Khaled (Head of Department)
- Assoc. Prof. Hossam Nassar
- Assoc. Prof. Asmaa Hammouda
- Dr. Nabila Shehata
- Dr. Amal Zaher
- Dr. Ola Abdelaziz
- Dr. Ibrahim Elkattan
- Dr. Mohamed Abu-elsoud
- MSc. Mahmoud Nady
- MSc. Mostafa Shawkey
- MSc. Heba Yunis
- MSc. Esraa Mansour

General Research fields	Specific topic/objective	Team members	Expected Outcomes (paper-patent-prototype)	Time line (2020-2025)	Thesis/project/research	Sustainable Development Goals (SDGs)	Funding Agencies
Energy	Energy production from waste recycling oil biodiesel	Committee	Paper and thesis		Thesis	4,5,7,11,12,17	PSAS &BSU
Energy and environmental	Solid waste recycling of improvement of fuel cells	Committee	Paper and thesis		Thesis	4,5,7,11,12,17	PSAS &BSU
Energy	Application of solar energy	Committee	Paper and thesis		Thesis	4,5,7,17	PSAS &BSU
Environmental	Water desalinations	Committee	Paper and thesis		Thesis	4,5,6,12,17	PSAS &BSU
Environmental	Improvement of cement and concrete properties	Committee	Paper and thesis		Thesis	4,5,9,17	PSAS &BSU
Environmental	Industrial waste treatment	Committee	Paper and thesis		Thesis	4,5,9,11,12,17	PSAS &BSU
Energy	Simulator of industrial reactor photocatalysis	Committee	Paper and thesis		Thesis	4,5,9,17	PSAS &BSU
Environmental	Industrial waste water treatment	Committee	Paper and thesis		Thesis	4,5,9,11,12,17	PSAS &BSU
Environmental	Brackish waste water treatment	Committee	Paper and thesis		Thesis	4,5,6,17	PSAS &BSU
Environmental	Assessment of water pollution	Committee	Paper and thesis		Thesis	4,5,6,17	PSAS &BSU



Faculty of Postgraduate Studies for Advanced Sciences
Beni-Suef University



Environmental	Minimizing emission for harmful industrial compounds	Committee	Paper and thesis		Thesis	4,5,9,11,12,17	PSAS &BSU
Environmental	Environmental awareness and enhancement of industrial development	Committee	Paper and thesis		Thesis	4,5,9,11,17	PSAS &BSU
Energy	Synthesis and Characterization of TiO_2 Nanotubes (TiO_2 NTs) Filled with Highly Efficient Nanoalloys	Committee	Paper and thesis		Thesis	4,5,7,9,17	STDF
Energy and Environmental	a new 3 way catalyst for car exhaust	Committee	Paper and thesis		Thesis	4,5,7,9,17	PSAS &BSU
Energy	core shell nanoparticles for dyes removal in river water	Committee	Paper and thesis		Thesis	4,5,6,17	PSAS &BSU
Environmental	Plasma assisted preparation of nano metal oxides	Committee	Paper and thesis		Thesis	4,5,9,17	PSAS &BSU
Environmental	Controlling size and shape of nanoCuO for environmental problems	Committee	Paper and thesis		Thesis	4,5,9,11,17	PSAS &BSU
Environmental	Photodegradation of some food dyes and bacterial inhibition of some bacteria that present in industrial waste-water and designing a treatment reactor prototype	Committee	Paper and thesis		Thesis	4,5,6,9,11,17	PSAS &BSU
Energy	Chemical Routes to Nanostructured Materials for Solar Cell Applications	Committee	Paper and thesis		Thesis	4,5,7,11,17	PSAS &BSU
Environmental	Conversion of plastic to oil	Committee	Paper and thesis		Thesis	4,5,7,9,11,12,17	PSAS &BSU
Energy and Environmental	Design, Implementation and Performance of 10kW Rooftop Grid Connected PV System: PSAS Faculty : as a Case Study	Committee	Paper and thesis		Thesis	4,5,7,11,17	PSAS &BSU
Environmental	Doped TiO_2 /graphenenano composites for large scale H_2 production from waste water	Committee	Paper and thesis		Thesis	4,5,7,9,11,17	PSAS &BSU
Environmental	Enhanced recovery and valorization of algal-bacterial biomass from waste water treatment plants using layered double hydroxide	Committee	Paper and thesis		Thesis	4,5,7,11,17	PSAS &BSU



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	nanoparticles						
Environmental	Environmental awareness and enhancement of industrial development	Committee	Paper and thesis		Thesis	4,5,9,11,17	PSAS &BSU
The actual number of registered degree = 82							

Materials Science and Nanotechnology Department

(Empowering Industry Through Innovative Ideas)

Staff members:

- Prof. Dr. Mohammad H. Khedr (Founder of PSAS)
- Prof. Ahmed A. Farghali (Dean of PSAS)
- Assoc. Prof. Samaa I. El-Dek (Vice Dean of PSAS)
- Assoc. Prof. Waleed A. El Rouby (Head of Department)
- Dr. Ayman Zaki
- Dr. Abdalla Abdelwahab
- Dr. Ahmed Elshahawy
- Dr. Mohammad Taha
- MSc. Mohammad Esmat
- MSc. Essam Dief
- MSc. Yasser GadelHak

General Research fields	Specific topic/objective	Team members	Expected Outcomes (paper-patent-prototype)	Time line (2020-2025)	Thesis/project/research	Sustainable Development Goals (SDGs)	Funding Agencies
Materials Science-Nanotechnology	Synthesis and Characterization of TiO ₂ Nanotubes (TiO ₂ NTs) Filled with Highly Efficient Nanoalloys	Committee	Paper and thesis		Thesis	4,5,7,9,17	STDF
Environmental	a new 3 way catalyst for car exhaust	Committee	Paper and thesis		Thesis	4,5,7,9,17	Swedish – Egypt grant
Environmental	core shell nanoparticles for dyes removal in river water	Committee	Paper and thesis		Thesis	4,5,6,17	Cairo University
Materials Science-Nanotechnology	Plasma assisted preparation of nano metal oxides	Committee	Paper and thesis		Thesis	4,5,9,17	US- Egypt Fund (STDF)
Environmental	Controlling size and shape of nanoCuO for environmental problems	Committee	Paper and thesis		Thesis	4,5,9,11,17	BSU
Environmental	Photodegradation of some food dyes and bacterial inhibition of some bacteria that present in industrial waste-water and designing a treatment reactor prototype	Committee	Paper and thesis		Thesis	4,5,6,9,11,17	STDF
Energy	Chemical Routes to Nanostructured Materials for Solar Cell Applications	Committee	Paper and thesis		Thesis	4,5,7,11,17	BSU
Environmental	Conversion of plastic waste to oil	Committee	Paper and thesis		Thesis	4,5,7,9,11,12,17	ASRT
Energy	Design, Implementation and Performance of 10kW Rooftop Grid Connected PV System: PSAS Faculty : as a Case	Committee	Paper and thesis		Thesis	4,5,7,11,17	BSU

	Study						
Environmental	Doped TiO ₂ /graphenenano composites for large scale H ₂ production from waste water	Committee	Paper and thesis		Thesis	4,5,7,9,11,17	BSU
Environmental	Enhanced recovery and valorization of algal-bacterial biomass from wastewater treatment plants using layered double hydroxide nanoparticles	Committee	Paper and thesis		Thesis	4,5,7,11,17	STDF
Bio-nanotechnology for Biomedical applications	Nanocomposites, a novel approach to optimize, purify and enhance the antibacterial activity of a potent bacteriocin (Enterocin OS13)	Committee	Paper and thesis		Thesis	3,4,5,9,17	BSU
Materials Science-Nanotechnology	Formulation and Evaluation of Topical Formulations Containing U.V. Shielding Nano-Metallic components	Committee	Paper and thesis			3,4,5,9,17	BSU
Materials Science-Nanotechnology	preparation and characterization of nanoparticles for free radical scavenging	Committee	Paper and thesis			3,4,5,9,17	STDF
Materials Science-Environment	Scaling up of fully solar powered photochemical - biological waste water treatment using photosynthetic oxygenation	Committee	Paper and thesis			4,5,6,11,12,17	ASRT
Nanotechnology-Environment	Synthesis of innovative hollow fibres polymer nanocomposite for selective removal of arsenic from drinking and ground water	Committee	Paper and thesis			4,5,6,11,12,17	STDF
Nanotechnology-Environment	Titanate Nanostructures for removal of heavy metals from drinking water and In-vitro	Committee	Paper and thesis			4,5,6,11,12,17	Princess Nawara Bint AbdulRahman University

	evaluation of cytotoxic effect on human normal cell lines (liver and Kidney)						
Materials Science-Energy	Electro-catalytic conversion of CO ₂ into hydrocarbons using carbon aerogels based electrodes	Committee	Paper and thesis			4,5,9,11,12,17	STDF
Materials Science-Nanotechnology	Center of Excellence (economic production of nanomaterials)	Committee	Paper and thesis+ Accreditation			4,5,9,12,17	STDF- Centre of excellence
Materials Science-Nanotechnology	Bimetal oxides doped carbon quantum dots as a novel materials towards Nano-fluids applications	Committee	Paper and thesis			4,5,9,17	STDF
Materials Science-Energy	Carbon quantum dots size control using electrochemical method and their application in supercapacitors as a powerful tool for energy storage	Committee	Paper and thesis			4,5,7,9,17	STDF
Nanotechnology-Energy	Construction of novel Nanocomposites with enhanced photocatalytic properties for photoelectrochemical (PEC) water splitting	Committee	Paper and thesis			4,5,7,9,17	STDF
Nanotechnology-Energy	Production of nanomaterials for supercapacitors	Committee	Paper and thesis			4,5,7,9,17	
Materials Science-Energy	Methional oxidation and fuel cell applications	Committee	2 projects		2 projects	4,5,7,9,17	
Nanotechnology-Energy	Transesterification of waste oil into biodiesel using nanocatalyst	Committee	Paper and thesis		thesis	4,5,7,9,11,12,17	
Materials Science-Nanotechnology	CO ₂ conversion and reduction using nanomaterials	Committee	project +thesis		thesis	4,5,9,12,17	
Nanotechnology-Energy	Waste recycling to energy using nanoparticles	Committee	Paper and thesis		thesis	4,5,7,11,12,17	

Materials Science-Nanotechnology	Studying the physicochemical properties of different nanostructure	Committee	Paper and thesis		thesis	4,5,9,17	
Materials Science-Nanotechnology	Morphology transformation of different nanoparticles	Committee	Paper and thesis		thesis	4,5,9,17	
Materials Science-Nanotechnology	Preparation and characterization of different nanostructure produced from bio-templates	Committee	Paper and thesis		thesis	4,5,9,12,17	
Nano-biotechnology	Biomedical applications of nanocomposites[antimicrobial antiviral anti-cancer in-vivo & in-vitro	Committee	Paper and thesis		thesis	3,4,5,17	
Nano-biotechnology	Preparation of nano-bio materials for tissue engineering bone scaffold	Committee	Paper and thesis		thesis	3,4,5,17	
Nano-biotechnology	Preparation of nanocomposites for MRI contrast agents	Committee	Paper and thesis		thesis	3,4,5,17	
Materials science-Modeling	Predicting Electronic Structures and Optoelectronic Properties of Semiconductor Materials Using Density Functional Theory (DFT)	Committee	Paper and thesis			4,5,9,17	STDF
Materials science-Modeling-Energy	Designing New Materials/Catalysts for Energy Applications using Modeling Methods	Committee	Paper and thesis			4,5,7,9,17	
Materials science-Modeling-Energy	Modeling Solar Cells	Committee	Paper and thesis			4,5,7,9,17	
Materials science-Modeling-Energy	Modeling Batteries and Fuel Cells	Committee	Paper and thesis			4,5,7,9,17	
Materials science-Modeling	Designing New Materials for Separation Process using Modeling Methods	Committee	Paper and thesis			4,5,9,17	
Materials science-Modeling	Intermolecular Interactions using DFT, Molecular Dynamics (MD) Simulation, Monte	Committee	Paper and thesis			4,5,9,17	



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	Carlo (MC) Simulation						
Materials science- Modeling	Understanding the Adsorption Process using DFT, MC, MD Simulations	Committee	Paper and thesis			4,5,9,17	
Biomedical- Modeling	Drug Design and Delivery using Modeling Methods	Committee	Paper and thesis			3,4,5,9,17	
The actual number of registered degrees :- 149 M.Sc. and Ph.D.							

Renewable Energy Science and Engineering

Department

(Clean and Renewable Positive Energy)

Staff members:

- Assoc. Prof. Islam Taha (Head of Department)
- Dr. Kareem Elmenofy
- Dr. Ahmed Gamal-el-din Khalil
- Dr. Laila Saad
- Dr. Mai Farag
- MSc. Ahmed Ewais
- MSc. Enas Ahmed
- MSc. Enas Mostafa

General Research fields	Specific topic/objective	Team members	Expected Outcomes (paper-patent-prototype)	Time line (2020-2025)	Thesis/ project/ research	Sustainable Development Goals (SDGs)	Funding Agencies
Energy Storage	Symmetric Supercapacitor	Committee	Paper		carbon nanofiber nanocomposite for high performance Supercapacitor	4,5,7,9,11,17	Self-Funding
Energy Storage	Asymmetric supercapacitors	Committee	Paper and MSc		Asymmetric supercapacitors based on nanostructures of earth abundant elements	4,5,7,9,11,17	STDF
Energy Storage	Electrical double layer capacitor	Committee	Paper and MSc		Waste-derived porous carbon nanocomposites as effective electrodes for ultracapacitors	4,5,7,9,11,17	STDF
Energy Storage	Pseudo supercapacitor	Committee	Paper and MSc		Using metal sulphides hybrid nanostructured for energy storage systems	4,5,7,9,17	STDF
Energy Conversion	Fuel cell	Committee	Paper and MSc		Advanced nanomaterials for high performance Fuel cell	4,5,7,9,17	Self-Funding
Energy Conversion	Methanol Fuel Cell	Committee	Paper and MSc		Bi/Tri metallic doped carbon nanocomposites for high performance fuel cells applications	4,5,7,9,17	ASRT
Energy Storage	Hybrid supercapacitor	Committee	Paper and MSc		Experimental and computational and design of nanostructured materials for energy storage devices	4,5,7,9,11,17	Self-Funding
Energy conversion	Novel metal oxide nanocomposite for biodiesel production	Committee	Paper and MSc		Novel metal oxide nanocomposite for biodiesel production	4,5,7,9,11,17	Self-Funding

Energy Conversion	Methanol Fuel Cell	Committee	Paper and MSc		Bi/Tri metallic doped carbon nanocomposites for high performance fuel cells applications	4,5,7,9,17	ASRT
Fuel cell		Committee	MSc		Preparation and characterization energy materials used for fuel cell application	4,5,7,9,17	
Solar cell		Committee	MSc and paper		Self-cleaning	4,5,7,9,11,17	
Fuel cell	Catalyst	Committee	paper			4,5,7,9,17	
Solar Cell	Hydrophobic nanomaterials self-cleaning coatings	Committee	patent-prototype		Thesis	4,5,7,9,11,17	Self-Funding
Solar Cell	Inorganic quantum dots for solar cell application	Committee	paper		Thesis	4,5,7,9,11,17	Self-Funding
Solar Cell	Cooling nanofluides for photovoltaic systems	Committee	prototype)		research	4,5,7,9,11,17	Self-Funding
Solar Cell	Rarer earth elements absorber layer for PV applications	Committee	paper		project	4,5,7,9,11,17	STDF
Solar Cell	Hole transport layer modification for perovskite solar cell	Committee	Research		research	4,5,7,9,11,17	Self-Funding
Materials Science-Nanotechnology	Solar Cell	Committee	Thesis and paper	2020-2022	Using nano materials to enhance solar cell efficiency	4,5,7,9,11,17	Self-Funding
Materials Science-Nanotechnology	Solar cell	Committee	Thesis and paper	2022-2024	Physical characterization of CDX/P-Si solar cell	4,5,7,9,11,17	Self-Funding
Materials Sciece-Nanotechnology	Solar Cell	Committee	Thesis and paper	2023-2025	Organic molecule for photodiode applications	4,5,7,9,11,17	Self-Funding
The actual number of registered degree:- 15 Master and 2 Ph.D.							



Chapter 3 contents:

Page No.	Topic
1	Percentage of published documents per subject area
2	Number of published documents per year
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4	Funding sponsors
5	Published documents by affiliation
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Chemistry

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Physics and Astronomy

58

Engineering

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Biochemistry, Genetics and
Molecular Biology

38

Chemical Engineering

37

Environmental Science

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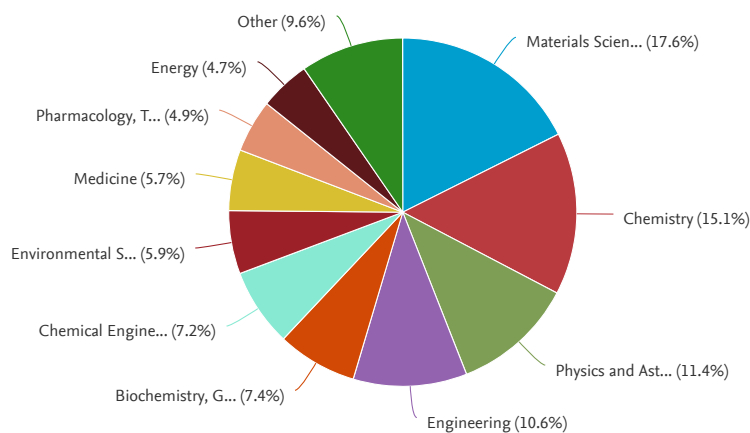
Medicine

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Pharmacology, Toxicology and
Pharmaceutics

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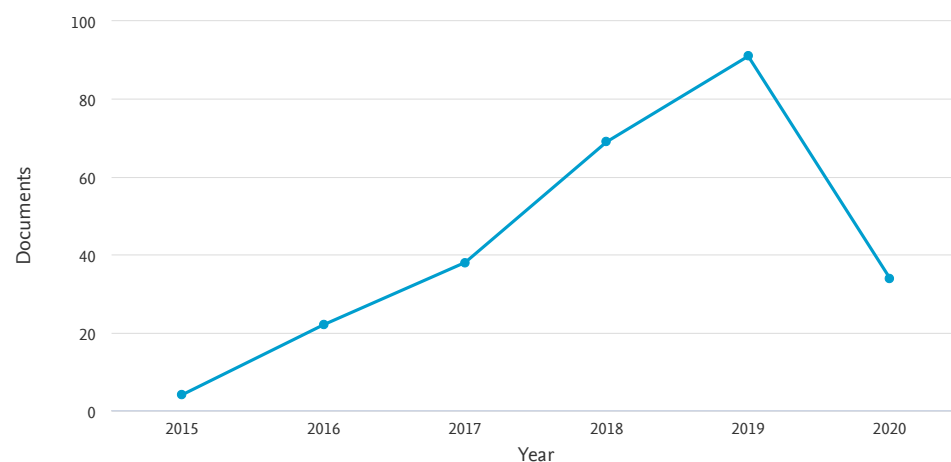


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2017	38
2016	22
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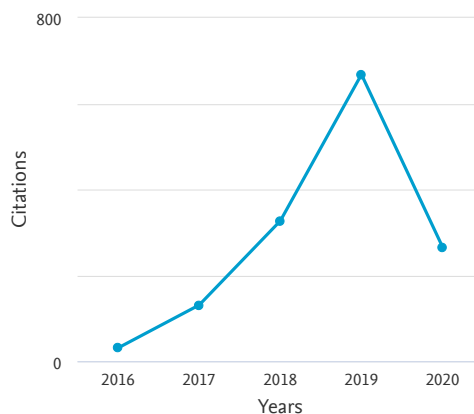
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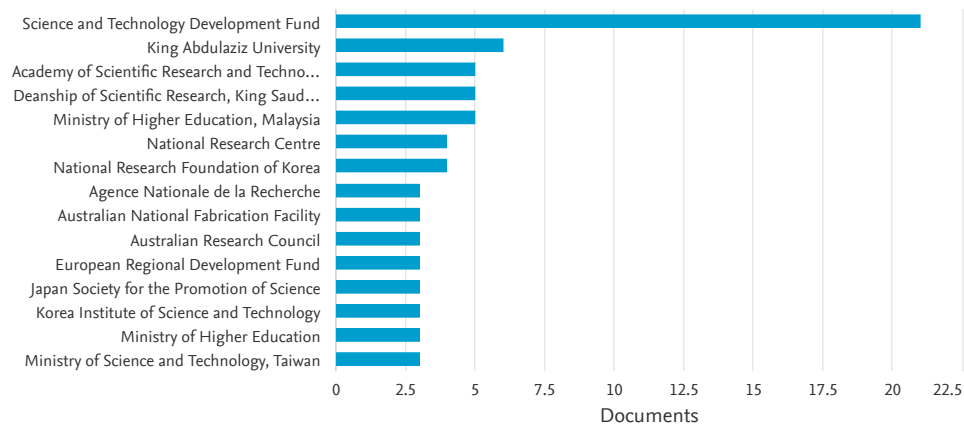
Funding sponsor ↓

Documents ↓

☐ Australian Research Council	3
☐ European Commission	3
☐ European Regional Development Fund	3
☐ Japan Society for the Promotion of Science	3
☐ King Saud University	3
☐ Korea Institute of Science and Technology	3
☐ Ministry of Higher Education	3
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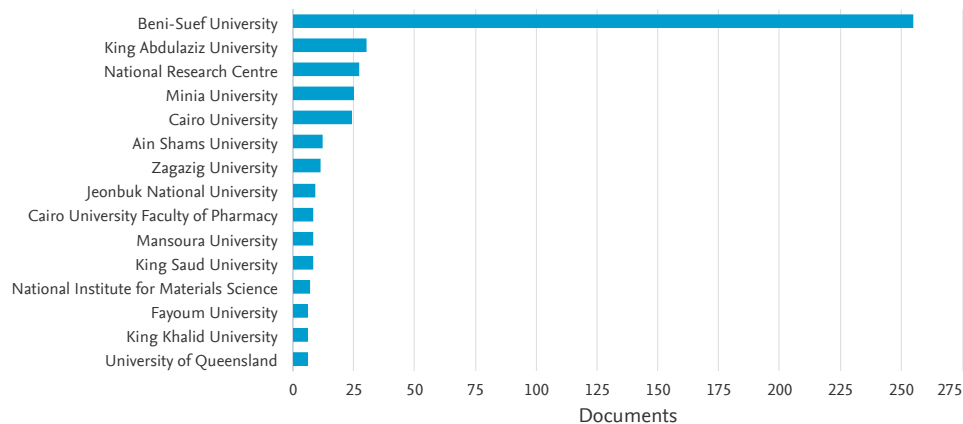
Affiliation ↑

Documents ↓

Pharmacy	
☐ Mansoura University	8
☐ King Saud University	8
☐ National Institute for Materials Science	7
☐ Fayoum University	6
☐ King Khalid University	6
☐ University of Queensland	6
☐ Institut de Chimie Moléculaire et des	6

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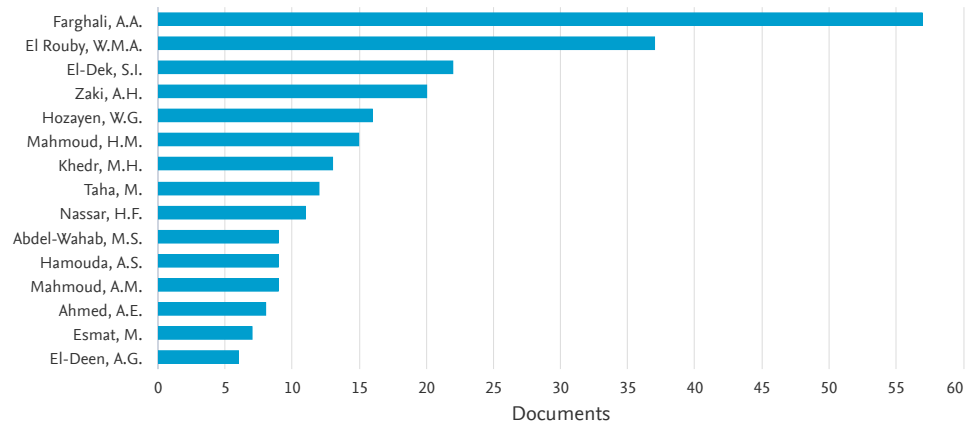
Author ↑

Documents ↓

☐	Khalil, W.F.	2
☐	Khan, I.U.	2
☐	Khan, M.D.	2
☐	Kim, H.Y.	2
☐	Kumar, R.	2
☐	Maier, S.E.	2
☐	Mahmoud, M.S.	2
☐	Marmoush, M.M.	2
☐	Moatmed, S.M.	2

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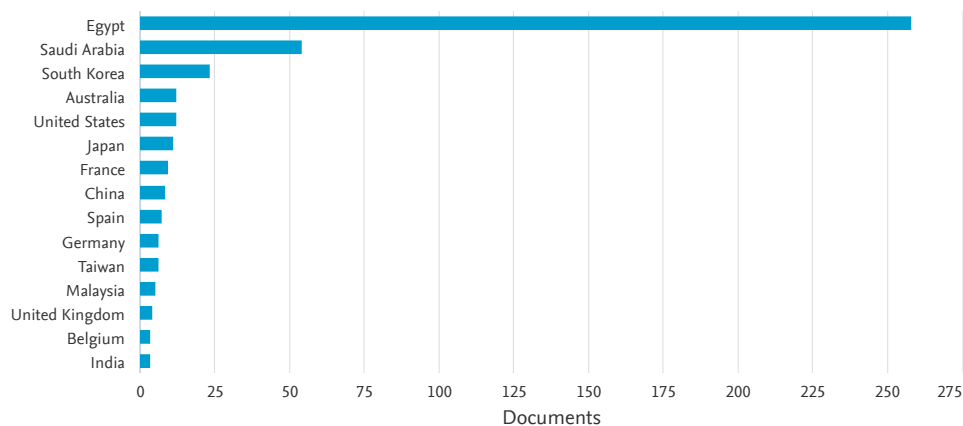
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Documents ↓

☐	Taiwan	6
☐	Malaysia	5
☐	United Kingdom	4
☐	Belgium	3
☐	India	3
☐	Oman	3
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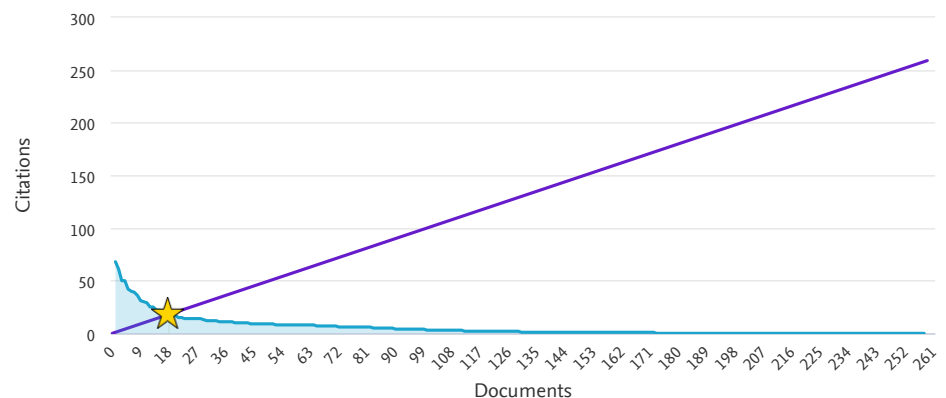
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1	68
2	61
3	50
4	50
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Documents

- 1) Abo El-Reesh, G.Y., Farghali, A.A., Taha, M., Mahmoud, R.K.

Novel synthesis of Ni/Fe layered double hydroxides using urea and glycerol and their enhanced adsorption behavior for Cr(VI) removal

(2020) *Scientific Reports*, 10 (1), art. no. 587, .

2-s2.0-85078009904

Document Type: Article

Publication Stage: Final

Source: Scopus

Access Type: Open Access

- 2) El-Raheem, H.A., Hassan, R.Y.A., Khaled, R., Farghali, A., El-Sherbiny, I.M.

Polyurethane-doped platinum nanoparticles modified carbon paste electrode for the sensitive and selective voltammetric determination of free copper ions in biological samples

(2020) *Microchemical Journal*, 155, art. no. 104765, .

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Document Type: Article

Publication Stage: Final

Source: Scopus

- 3) AbuKhadra, M.R., Mohamed, A.S., El-Sherbeeney, A.M., Elmeligy, M.A.

Enhanced photocatalytic degradation of acephate pesticide over MCM-41/Co3O4 nanocomposite synthesized from rice husk silica gel and Peach leaves

(2020) *Journal of Hazardous Materials*, 389, art. no. 122129, .

2-s2.0-85078060896

Document Type: Article

Publication Stage: Final

Source: Scopus

- 4) Wahid, A., Mahmoud, S.M.N., Attia, E.Z., Yousef, A.E.-S.A., Okasha, A.M.M., Soliman, H.A.

Dietary fiber of psyllium husk (*Plantago ovata*) as a potential antioxidant and hepatoprotective agent against CCl4-induced hepatic damage in rats

(2020) *South African Journal of Botany*, 130, pp. 208-214.

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Publication Stage: Final

Source: Scopus

- 5) El Rouby, W.M.A., Antuch, M., You, S.-M., Millet, P.

Surface sensitization of TiO2 nanorod mats by electrodeposition of ZIF-67 for water photo-oxidation

(2020) *Electrochimica Acta*, 339, art. no. 135882, .

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Document Type: Article
Publication Stage: Final
Source: Scopus

- 6) Abdel-Gawwad, H.A., Hassan, H.S., Vázquez-García, S.R., Israde-Alcántara, I., Ding, Y.-C., Martinez-Cinco, M.A., Abd El-Aleem, S., Khater, H.M., Tawfik, T.A., El-Kattan, I.M.

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(2020) *Journal of Cleaner Production*, 252, art. no. 119875, .

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Publication Stage: Final
Source: Scopus

- 7) Mohamed, A.S., AbuKhadra, M.R., Abdallah, E.A., El-Sherbeeney, A.M., Mahmoud, R.K.

The photocatalytic performance of silica fume based Co₃O₄/MCM-41 green nanocomposite for instantaneous degradation of Omethoate pesticide under visible light

(2020) *Journal of Photochemistry and Photobiology A: Chemistry*, 392, art. no. 112434, .

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Document Type: Article
Publication Stage: Final
Source: Scopus

- 8) Aboubakr, A.E.A., El Rouby, W.M.A., Khan, M.D., Farghali, A.A., Revaprasadu, N.

ZnCr-CO₃ LDH/ruptured tubular g-C₃N₄ composite with increased specific surface area for enhanced photoelectrochemical water splitting

(2020) *Applied Surface Science*, 508, art. no. 145100, .

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Document Type: Article
Publication Stage: Final
Source: Scopus

- 9) Salam, M.A., AbuKhadra, M.R., Mohamed, A.S.

Effective oxidation of methyl parathion pesticide in water over recycled glass based-MCM-41 decorated by green Co₃O₄ nanoparticles

(2020) *Environmental Pollution*, 259, art. no. 113874, .

2-s2.0-85078801208
Document Type: Article
Publication Stage: Final
Source: Scopus

- 10) Taha, M., Lee, M.-J.

Influence of the alanine side-chain methyl group on the peptide-gold nanoparticles interactions

(2020) *Journal of Molecular Liquids*, 302, art. no. 112528, .

2-s2.0-85078705841
Document Type: Article
Publication Stage: Final

Source: Scopus

- 11) Nady, D., Zaki, A.H., Raslan, M., Hozayen, W.

Enhancement of microbial lipase activity via immobilization over sodium titanate nanotubes for fatty acid methyl esters production

(2020) *International Journal of Biological Macromolecules*, 146, pp. 1169-1179. Cited 1 time.

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Document Type: Article

Publication Stage: Final

Source: Scopus

- 12) Nada, A.A., El Roubi, W.M.A., Bekheet, M.F., Antuch, M., Weber, M., Miele, P., Viter, R., Roualdes, S., Millet, P., Bechelany, M.

Highly textured boron/nitrogen co-doped TiO₂ with honeycomb structure showing enhanced visible-light photoelectrocatalytic activity

(2020) *Applied Surface Science*, 505, art. no. 144419, . Cited 1 time.

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Document Type: Article

Publication Stage: Final

Source: Scopus

- 13) Hegazy, A.M., Abdelfatah, R.M., Mahmoud, H.M., Elsayed, M.A.

Development and validation of two robust simple chromatographic methods for estimation of tomatoes specific pesticides' residues for safety monitoring prior to food processing line and evaluation of local samples

(2020) *Food Chemistry*, 306, art. no. 125640, . Cited 1 time.

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Document Type: Article

Publication Stage: Final

Source: Scopus

- 14) Mohammed, E.T., Hashem, K.S., Ahmed, A.E., Aly, M.T., Aleya, L., Abdel-Daim, M.M.

Ginger extract ameliorates bisphenol A (BPA)-induced disruption in thyroid hormones synthesis and metabolism: Involvement of Nrf-2/HO-1 pathway

(2020) *Science of the Total Environment*, 703, art. no. 134664, . Cited 3 times.

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Document Type: Article

Publication Stage: Final

Source: Scopus

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2-s2.0-85025455045

Document Type: Article
Publication Stage: Final

Source: Scopus



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