Emeritus Professor
Mohy Saad Mansour
Mechanical Power Engineering Department
Cairo University

Fellow of the Combustion Institute, USA

Editorial Board
Flow Turbulence and Combustion Journal
https://www.springer.com/journal/10494

Chair
The Egyptian Section of the Combustion Institute (ESCI)

Chair
The Egyptian Society for Renewable Energy (ESRE)

Co-Chair
The Mediterranean Combustion Symposium

Quick links to main item in this Curriculum Vitae

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Personal Information

Family Name	: Mansour
Given Names	: Mohy Saad Abdel-Hamid
Date of Birth	: 22 September 1958 [Giza, Egypt]
Nationality	: Egyptian
Marital Status	: Married (two children)
Home Address	: Vila G91 Dreamland, Wahat Rd, 12578 Giza, Egypt.
Postal Address.	: same as home address.
Telephone	:+202-38583225 (home), +2012 21630863 (mobile)
E-mail	mansour@niles.edu.eg; mansourm@aucegypt.edu
www:	http://www.aucegypt.edu/fac/mohymansour

Education

Ph.D. 1990 – Sydney University – Australia
Studies in Turbulent Hydrocarbon Flames in a Reverse Flow Reactor
Mechanical Engineering Department – The University of Sydney
Advisor: Prof. R.W. Bilger

M.Sc. 1985 – Cairo University – Egypt
Spray Formation and Entrainment Characteristics in Liquid Fuel Sprays of Diesel Engines
Mechanical Power Engineering Department – Cairo University
Advisor: Prof. M.Elkotb, Prof. H. Salem

B.Sc. 1981 – Cairo University – Egypt
Distinction with honor
Mechanical Power Engineering Department – Cairo University

Positions

Current

Professor (Emeritus) Mechanical Power Engineering Department **Cairo University**

Previous

Professor Mechanical Engineering Department – The American University in Cairo 2002-2005, 2012-2020

Professor Mechanical Power Engineering Department - **Cairo University 2002 - 2017**

Vice President Education and Students Affairs — Beni-Suef University, September 2010 – September 2011

Dean Faculty of Engineering - **BeniSuef University**, December 2009 – September 2010

Dean	National Institute for Laser Enhanced Sciences (**NILES**), **Cairo University**, August 2005 – July 2008
Chair	Engineering Applications of Laser dept NILES – **Cairo University** August 2003 – July 2005 **(part time)**
Technical Advisor [Consultant]	Center of Excellence – Energy – Ain Shams University 2019 – July 2020
Professor	[Secondment May 2002 – July 2005] Mechanical Engineering Dept **The American University in Cairo**
Associate Professor	Secondment [September 1999 – May 2002] Mechanical Engineering Dept **The American University in Cairo**
Associate Professor	[April 1997 – May 2002] Mechanical Power Eng. Department - **Cairo University**
Associate Professor	[part time April 1997 – Sept. 1999] National Institute for Laser Enhanced Sciences NILES – **Cairo University**
Assistant Professor	[February 1992 –April 1997] Mechanical Power Engineering Department - **Cairo University**
Assistant Professor	[part time: October 1994 – April 1997] National Institute for Laser Enhanced Science - **Cairo University**
Post-Doctoral	[April 1990 - Dec. 1991] Institut Fuer Technische Mechanik **RWTH Aachen, F.R. Germany**
Assistant Lecturer	[October 1985 - January 1992] Mechanical Power Engineering Department - **Cairo University**
Tutor/Demonstrator	[October 1981 - October 1985] Mechanical Power Engineering Department - **Cairo University**
Research Assistant /Tutor (part time)	[January 1986 - April 1990] Mechanical Engineering Department **Sydney University**, **Australia**

Areas of Expertise and Interests

Education

- Thermodynamics
- Heat Transfer
- Heat Engines
- Combustion
- Laser Based Measuring Techniques (Flow field and reactive scalars)
- Fluid Mechanics
- Refrigeration and Air Conditioning
- Power plants Technology
- Internal Combustion Engines
- Cogeneration and Energy Saving

Research

- Premixed and Partially Premixed Combustion
- Laser Diagnostics on Combustion: Techniques: Raman – Rayleigh – LDV – PIV – LIF – LIPF – PLIF – PLIPF – LIBS – High speed imaging
- Turbulent and Laminar Flames

- Flame Kernel
- Flame Stability
- Turbulence-Chemistry Interactions
- Laser technology and diagnostics
- Combustion Systems
- Laser machining
- Renewable fuels: syngas (Gasification), biogas, biodiesel
- Renewable Energy and Energy Storage

Consultation

- Laser systems and laser design
- Combustion Systems
- Heat Engines
- Boilers
- Burners
- Dryers
- Furnaces
- Ovens
- Bread Ovens
- Steam pipelines
- Compressors
- Cooling Towers
- Laser techniques for combustion and turbulence measurements
- Laser design and manufacturing
- Renewable energy
- Biofuels and syngas
- Waste-to-Energy
- Energy Storage

Awards and Patent

- Cairo University Prize of Appreciation in Engineering Science 2022
- Fellow of the combustion Institute, USA, January 2021
- Recognized among the top 2% impactful scientists globally in the Stanford University Elsevier study, 2020, 2021, 2022, 2023 (Ioannidis, John P.A. (2023), “October 2023 data-update for "Updated science-wide author databases of standardized citation indicators"”, Elsevier Data Repository, V6, doi: 10.17632/btchxktzyw.6) https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6?fbclid=IwAR18c1TQCwf6BgXfJhqg330qYQI1OL2HD28xk0bgCfdDpkkReenbi6GyBxI
- Egyptian National Prize of Encourage in Engineering Science (1997).
- Sharing award with Dr. J-Y- Cheng for young researchers in First Asia-Pacific Conference on Combustion, Osaka, Japan, (1997).
- Most popular doctor at mechanical Engineering Department, the American University in Cairo, (2001).
- Garrett Turbulent Combustion award, University of Sydney, Australia [1 January 1986 - 31 April 1987]
- Peter Nicol Russell Postgraduate award, University of Sydney, Australia [1 May 1987 - 14 Feb. 1990]
- Design of a gaseous fuel burner, patent title “A Concentric Flow Conical Nozzle CFCN Gaseous Fuel Burner for Industrial Applications”. Patent no. 22275, Dec 2002

- Design of fully automated Balady bread production line: patent submitted 2018.

Membership

International

- Chair of the Egyptian section of the combustion institute, one of the International Combustion Institute sections, USA
- Member of the scientific council of the International Center for Heat and Mass Transfer "ICHMT"
- Fellow: Combustion Institute, USA
- Co-chair of the Mediterranean Combustion Symposium, since 2001
- Co-Chair of the International Exergy, Energy, and Environmental Symposium (IEEES-5) 2011.

National

- Chair of the Egyptian Society of Renewable Energy
- Former Member at the Supreme Council of Universities – Egypt - Committee on Engineering Studies Sector
- Former Member at the Supreme Council of Universities – Egypt - Committee on Fundamental Sciences Sector (2005-2008)
- Syndicate of Engineers, Egypt
- Syndicate of Educational Careers, Egypt
- Invited external member of NILES council – Cairo university (period 2003-2005)
- Former member of the supreme council of antiquities [2007-2008]

Editor-Reviewer

Editor:

1. **Flow, Turbulence and Combustion,**
   Editorial Board, since November 2021
2. **Combustion Science and Technology,**
   Volume 174, 11&12, 1-2 (2002)
   Edited by Federico Beretta, Nevin Selçuk, and Mohy S. Mansour
3. **Experimental Thermal and Fluid Science**
   Volume 27, Issue 4 (April 2003)
   Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour, and MM Elkotb
4. **Combustion Science and Technology,**
   Volume 179, 1-2 (2007)
   Edited by Federico Beretta, Nevin Selçuk, and Mohy S. Mansour
5. **Experimental Thermal and Fluid Science**
   Volume 31, (5), 391-394 (2007)
   Edited by Nevin Selçuk, Federico Beretta, and Mohy S. Mansour
6. **Experimental Thermal and Fluid Science**
   Volume 7, 32, (2008)
   Edited by Nevin Selçuk, Federico Beretta, and Mohy S. Mansour
7. **Fifth Mediterranean Combustion Symposium 2008**
   Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour
8. **Sixth Mediterranean Combustion Symposium 2010**
   Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour
9. **Experimental Thermal and Fluid Science**
   Volume 34, ISSN: 0894-1777 (March 2010)
   Edited by Nevin Selçuk, Federico Beretta, and Mohy S. Mansour

10. **Laser Science and Applications,** 2010, World Scientific, ISBN 978-981-281-459-3
    Edited by Lotfia M. El-Nadi and Mohy S. Mansour
11. **Experimental Thermal and Fluid Science**
    Volume 43, Pages 1-104 (November 2012)
    Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour and Andrea D'Anna
12. **Seventh Mediterranean Combustion Symposium 2011**
    Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour and Andrea D'Anna
13. **Combustion Science and Technology, Volume 184, 7-9, 2012**
    Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour and Andrea D'Anna
14. **Eighth Mediterranean Combustion Symposium 2013**
    Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour and Andrea D'Anna
15. **Experimental Thermal and Fluid Science**
    Volume 56 (1), (2014)
    Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour and Andrea D'Anna
16. **Ninth Mediterranean Combustion Symposium 2015**
    Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour and Andrea D'Anna
17. **Combustion Science and Technology, Volume 186, 4-6, 2014**
    Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour and Andrea D'Anna
18. **Combustion Science and Technology, Volume 188, 4-6, 2016**
    Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour and Andrea D'Anna
19. **Flow, Turbulence and Combustion, 96 (4), 861 (2016)** "Advanced Analysis of Turbulent Combustion Preface",
    Edited by MS Mansour, E Mastorakos, B Merci
20. **Experimental Thermal and Fluid Science**
    Volume 73, Pages 1-74 (July 2016)
    Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour and Andrea D'Anna
21. **Special Issue on Ninth Mediterranean Combustion Symposium", Taylor & Francis, (2017),** Editors: A.R Masri, M Mansour, A D'Anna
22. **Experimental Thermal and Fluid Science**
    Volume 95, (July 2018)
    Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour and Andrea D'Anna
23. **Combustion Theory and Modelling**
    Volume 21, (2018)
    Edited by A.R. Masri, Mohy S. Mansour, and Andrea D'Anna
24. **Experimental Thermal and Fluid Science, Volume 95 (1-74), (2018)**
    Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour and Andrea D'Anna
25. **Fuel, Volume 234, 1328 (2018)**
    Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour and Andrea D'Anna
26. **Flow, Turbulence and Combustion (November 2018)**
    Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour and Andrea D'Anna
27. **Combustion Science and Technology, Volume 191 (1), 2019**
    Edited by Nevin Selçuk, Federico Beretta, Mohy S. Mansour and Andrea D'Anna
28. **Flow Turbulence and Combustion, Special Issue, "Advances in Combustion Research" Volume 106, No. 4, April 2021**
    Edited by Mohy S. Mansour, Nevin Selçuk, Federico Beretta, and Andrea D'Anna

Reviewer:

- Mediterranean Combustion Symposia
- Combustion and Flame
- Combustion Science and Technology
- Combustion Symposium (International)

- Flow, Turbulence and Combustion
- Experimental Thermal and Fluid Sciences
- Fuel
- Applied Energy

Research Activities

- **Research Student** [Cairo University]
  Period: 1981 - 1985
  Subject: Spray Formation and Entrainment Characteristics in Liquid Fuel Sprays of Diesel Engines.
  Measuring Techniques:
  Isokinetic probe, Hot-wire anemometer and High-speed camera.
- **Research Assistant** [Cairo University]
  Period: 1983 - 1985
  Subject: Air Pollution in the city of Cairo
  Measuring Techniques:
  Gas sampling for CO, C_xH_x and NO_x.
- **Research Student** [Sydney University]
  Period: 1986 - 1990
  Subject: Turbulence/chemistry interactions studies.
  Measuring Techniques:
  Mie-scattering, LDV and thermocouples
  Advisor: Prof. R.W. Bilger
- **Visiting Student** [Sandia National Lab, Livermore, CA] USA
  Period: [15 March 1987 – 28 May 1987]
  Subject: Raman/Rayleigh measurements in a Reverse Flow Reactor (RFR).
  Measuring Techniques: Raman and Rayleigh technique
  Cooperation with: Dr. R.W. Dibble and Prof. R.W Bilger
- **Post-Doc** [Institut für Technische Mechanik, RWTH, Aachen Germany]
  Period: 1990 - 1991
  Subject: Studies in turbulent premixed hydrocarbon flames at high Reynolds number using laser techniques.
  Measuring Techniques:
  Two-plane two-dimensional Rayleigh imaging technique. Developed by myself.
  Co-operation with: Prof. Dr. Ing. N. Peters, head of ITM.
- **Visiting Scientist**: Institut für Technische Mechanik, RWTH, Aachen Germany]
  Period: Regular visits since 1992 - 2020
  (3 weeks during winter and 2 months during summer breaks every year)
  Subject: Laser-based measurements in turbulent premixed and partially premixed hydrocarbon flames.

Measuring Techniques:

Some laser-based techniques have been developed by myself and research students at ITV, Aachen. Examples:

1. Two-plane, two-dimensional Rayleigh thermometry technique for 3-D temperature measurements.
2. Line Raman-Rayleigh technique for simultaneous Line profiles of temperature and reactive scalars.
3. UV Rayleigh thermometry technique
4. Laser Induced Fluorescence of OH radical in flames.

5. Laser Induced Fluorescence of CH radical in flames.
6. PIV flow field measurements
7. Soot volume fraction measurements for diesel engines

Professional Activities -Consultation-International Training

- **Project:** Air Pollution in the City of Cairo:
  (Joint project between Egypt and USA)
  Period : 1983 - 1985
  Principle Investigator: Prof. M.El-Kotb Cairo University
  Co-workers: Faculty members from Cairo University
  Description: Monitor and study pollution from Vehicles – Factories – Particulates in the city of Cairo. Engines of motor vehicles were tested and tuned for pollution control in some selected traffic departments.
- **Project:** Energy Consumption Improvement in Egyptian Power Stations:
  Joint project: Faculty of Engineering, Cairo University
  and Ministry of electricity
  Period : 1992 - 1996
  Principle Investigator: Eng. Hazem El-Tanbouli
  Team Leader: Prof. M. El-Mahallawy Cairo University
  Co-workers: Faculty members from Cairo University
  Description: Studying and reducing the losses throughout power stations. The study covered all power stations in Egypt.
- **Project:** The Development of Balady Bread Oven Design for Efficient, Unpolluted Bread
  Period: 1993 - 1995
  Principle Investigator: Prof. M. El-Mahallawy
  Co-workers: Prof. E. Mahdy and Dr. M. Gadallah.
  Description: Testing and studying the performance of conventional ovens. A new design was developed for an efficient oven with indirect baking for pollution free bread.
- **Project:** Energy Consumption Improvement in Sugar and Integrated Industries Company (SIIC): Joint project between Cairo University and SIIC
  Period : 1992 – January 1999
  Principle Investigator: Prof. M. El-Mahallawy
  Co-workers: Faculty members from Cairo University
  Description:
  - Testing and studying the performance of bagasse boilers.
  - Pollution test from boilers.
  - Thermal design of a bagasse dryer.
  - Follow the manufacture and testing of the dryer.
  - Training courses to Engineers and technicians at SIIC.
- **National consultant**
  Period: September – December 2000
  Topic: Laser diagnostics of combustion processes
  International organization:
  (UNIDO) United Nations Industrial Development Organization
  (ICS) International Center for Science and High Technology
- **National consultant**

Period: September – December 2001
Topic: Establishing a regional center at Cairo University for laser measurements in combustion systems
International organization:
(UNIDO) United Nations Industrial Development Organization
(ICS) International Center for Science and High Technology

- **International Training Course:**

  Training Course on Laser Diagnostics of Combustion Processes
  Place: The International Center for Science and High Technology (ICS), Trieste, Italy
  Period: 1-5 March 1999
  Organized by:
  (UNIDO) The United Nations Industrial Development Organization
  (ICS) The International Center for Science and High Technology

- **International Training Course:**

  Training Course on Laser Diagnostics of Combustion Processes
  Place: The laser and fiber optics center, Department of Physics, University of Cape Coast, Ghana
  Period: 3-10 July 1999
  Organized by:
  (UNIDO) The United Nations Industrial Development Organization
  (ICS) The International Center for Science and High Technology
  The laser and fiber optics center, University of Cape Coast

- **Training Courses:**
  - Involved in some training courses organized by:
    - The Development Research and Technological Planning Center (DRTPC)
    - Faculty of Engineering, Cairo University.
    - National Institute of Laser Enhanced Science, NILES, Cairo University
    - Syndicate of engineers, Mechanical Engineering section, Cairo.

  Period: 1992 - 2000
  (An average of five courses a year.)

  <u>The courses cover the following topics:</u>
  - I C Engines: Classifications, Maintenance and Tuning.
  - Gas Turbines.
  - Burners: Simple and automatic burners
  - Boilers
  - Lubricating and cooling systems.
  - Measurements and instruments for pressure and temperature.
  - Industrial Applications of lasers.
  - Laser diagnostics of combustion and turbulence.

Invited Speaker, Chair, Co-chair

Year	Participation	Event name	Title
1999	Invited Keynote Speaker	The first Mediterranean Combustion Symposium, Antalya - Turkey	Turbulent Premixed and Partially Premixed Combustion Diagnostics Based on Advanced Laser Techniques
2001	Invited Plenary Lecture	Mechanical Engineering Technologies and Applications in the Beginning of the Third Millennium, Thirteenth Conference on Mechanical Engineering, Mechanical Engineering Association, Egypt, Alexandria, 28-31 March 2001, in proceedings, (2001).	Industrial and Technological Applications of Lasers
2001	Invited Plenary Lecture	The Third International Symposium on Radiative Transfer, Antalya, Turkey, in proceedings, 292-310 (2001).	Advanced Laser Techniques for Turbulent Combustion Measurements
2001	Local Organizer	The second Mediterranean Combustion Symposium	
2003	Invited Plenary Lecture	International Congress of Spectroscopy, CIS2033, Marrakech 22-25 April 2003, (2003).	Laser Techniques for Turbulent Reacting Flow Measurements
2003	Symposium Co-Chair	The third Mediterranean Combustion Symposium	
2003	Session Chair	The third Mediterranean Combustion Symposium	
2005	Conference Co-Chair	The fifth International Conference on Lasers and Applications, NILES-Cairo University, Egypt	
2005	Symposium Co-Chair	The fourth Mediterranean Combustion Symposium	
2005	Session Chair	The fourth Mediterranean Combustion Symposium	
2007	Conference Chair	The sixth International Conference on Lasers and Applications, NILES-Cairo University, Egypt	
2007	Symposium Co-Chair	The fifth Mediterranean Combustion Symposium	
2007	Session Chair	The fifth Mediterranean Combustion Symposium	
2008	Chair	workshop on Lasers and Plasma between NILES and the 10th Easter Plasma Meeting, Cairo University	
2009	Symposium Co-Chair	The sixth Mediterranean Combustion Symposium	
2009	Session Chair	The sixth Mediterranean Combustion Symposium	
2010	Invited lecturer	Workshop on Laser Science and Applications, Damascus - Syria, May 2010	Laser applications
2010	Invited Speaker	Active Learning in Optics and Photonics, ALOP Constantine Constantine-Algeria, May 2010	The application of laser induced breakdown spectroscopy for the study of the structure of partially premixed flames
2010	Invited Speaker	Active Learning in Optics and Photonics, ALOP Constantine Constantine-Algeria, May 2010	Lasers in Combustion: Diagnostics, Applications and Control
2011	Symposium Co-Chair	The seventh Mediterranean Combustion Symposium	

2011	Session Chair	The seventh Mediterranean Combustion Symposium	
2011	Symposium Chair	5th International Exergy, Energy and Environment Symposium, IEEES-5, Egypt, Dec 2011	
2012	Session Chair	International Conference of Photodynamic and Nanomedicine for Cancer Diagnostics and Therapy, the German University in Cairo, 2012	
2013	Symposium Co-Chair	The eighth Mediterranean Combustion Symposium	
2013	Session Chair	The eighth Mediterranean Combustion Symposium	
2014	Invited speaker	FCE-14 The Fuel-Fire-Combustion Engineering Conference, Istanbul, Turkey, Jan, 2014	Laser-Based Combustion Diagnostics
2015	Invited Lecture	Tianjin University, year 2015	Laser Diagnostics for Turbulent Reacting Flows
2015	Symposium Co-Chair	The ninth Mediterranean Combustion Symposium	
2015	Session Chair	The ninth Mediterranean Combustion Symposium	
2016	Invited speaker	FCE-16 The Fuel-Fire-Combustion Engineering Conference, Istanbul, Turkey, Jan, 2016	Partially Premixed Combustion: Detailed Structure Study Using Advanced Laser Techniques
2016	Invited speaker	2nd annual international Exhibition & Conferences for, Renewable energy | Green oil & Gas | Green building	Green Fuel and Applications: Egyptian Biofuels and Syngas
2016	Session Chair	The Thirty-Sixth International Symposium on Combustion, Seoul-Korea	
2017	Referee	Water-Energy-Food (WEF) Nexus, The New Research Frontier in Egypt , International Conference, Feb 2017	
2017	Symposium Co-Chair	The tenth Mediterranean Combustion Symposium	
2107	Session Chair	The tenth Mediterranean Combustion Symposium	
2019	Symposium Co-Chair	The eleventh Mediterranean Combustion Symposium	
2019	Session Chair	The eleventh Mediterranean Combustion Symposium	
2019	Invited Keynote Speaker	The tenth International Conference on Lasers and Applications, NILES-Cairo University, Egypt	Laser Diagnostics for Turbulent Combustion and Energy Efficiency
2022	Invited Keynote Speaker	The Global Summit and Expo on Aerospace and Mechanical Engineering (GSEAME2022), Dubai, UAE on October 17-19, 2022	Generation and Combustion of Alternative Renewable Green Fuels
2023	Invited Keynote Speaker	The Twelfth Mediterranean Combustion Symposium, Luxor, January 23-26, 2023	Combustion Stability: Effects of the Mixing Field
2023	Symposium Co-Chair	The twelfth Mediterranean Combustion Symposium, Luxor, January 23-26, 2023	
2023	Local Organization Chair	The twelfth Mediterranean Combustion Symposium, Luxor, January 23-26, 2023	

2023	Invited Keynote Speaker	Workshop on Solar Cell: Current Technologies and New Trends, National Institute of Laser Enhanced Sciences – Cairo University, 27th February 2023	Solar Energy: PV Technology Development
2025	Symposium Co-Chair	The Thirteenth Mediterranean Combustion Symposium, Corfu-Greece, June 1-5, 2025	

Funds

Funds and Projects				
Year	**Title**	**Budget**	**My Role**	**Sponsor**
1992-1996	Energy Consumption Improvement in Egyptian Power Stations	EGP250,000	member within team	Ministry of electricity
1993-1995	The Development of Balady Bread Oven Design for Efficient, Unpolluted Bread	EGP120,000	PI	Ministry of social solidarity.
1992-1999	Energy Consumption Improvement in Sugar and Integrated Industries Company (SIIC): Joint project between Cairo University and SIIC	EGP400,000	member within the team	SIIC
Jan-00	AUC - research grant for January visit -Aachen-University - Germany	$ 6,000	PI	AUC
Aug-00	AUC - research grant for summer visit - Aachen-University - Germany	$ 6,000	PI	AUC
Nov-00	Grant by UNIDO-ICS Italy to organize training course in Egypt - Laser diagnostics	$ 20,000	PI	UNIDO-ICS Italy
Jan-01	AUC - research grant for January visit - Aachen-University - Germany	$ 6,000	PI	AUC
Jan-02	AUC - research grant for January visit - Aachen-University - Germany	$ 6,000	PI	AUC
Jun-02	Grant by UNIDO-ICS Italy to organize training course in Egypt - Laser diagnostics	$ 20,000	PI	UNIDO-ICS Italy
Jan-03	AUC - research grant for January visit - Aachen-University - Germany	$ 6,000	PI	AUC
2003-2006	Research grant: Experimental and Computational Investigation of Random-Fiber Matrices for Stirling-Engine Regenerator. Prof. Mounir Ibrahim Mechanical Eng. Dept. Cleveland State University Mech. Power Eng. Dept. Cairo University	$ 50,000	PI	US-Egypt
2005-2008	Laser design and manufacturing (High energy lasers)	EGP3,200,000	PI	Ministry of defense

2006-2009	Research grant: MENA – SWEDISH RESEARCH LINKS PROGRAMME "Detailed Studies of Premixed and Partially Premixed Burners Using Highly Advanced Laser-Based Techniques". Prof. Marcus Alden from the combustion division Lund University is the Swedish PI	450,000 kr	PI	MENA – SWEDISH RESEARCH LINKS PROGRAMME
Feb-June 2010	Awarded a grant for bread production line model by the Ministry of social solidarity.	EGP150,000	PI	Ministry of social solidarity.
2009-2012	Research grant:U.S. - Egypt Joint Science & Technology Board to fund a joint project entitled "Computational and Experimental Studies of Turbulent Premixed Flame Kernels" Dr. Tarek Echekki, Mechanical and Aerospace Engineering Dept. North Carolina State University	$ 60,000	PI	US-Egypt
2017-2020	Research grant: AUC grant: Generation and Combustion Characteristics of Biogas	$ 26,500	PI	AUC
2018-2020	Research grant: Ministry of Military Production: Fully automated Balady Bread production line	EGP3,000,000	Consultant	Ministry of Military Production
2019-2020	Center of Excellence for Energy, MIT, Ain-Shams, Mansour and Aswan Universities-USAID fund and MIT is the implementing USA University. My role was the technical advisor	$30,000,000	Technical Advisor	USAID
2025-2027	Egypt-Germany Mobility project: Renewable Green Fuels Combustion Characteristics Study for Sustainable Energy	Euro 29,870	PI	STDF
		$		**30,206,500**
Total budget		**Euro**		**29,870**
		EGP		**7,120,000**
				450,000 kr

Publications:

AU-ID "Mansour, Mohy S." 7202600190 Scopus
Scopus Author ID: 7202600190
ORCID: 0000-0003-3497-4682

Citations:

	Google Scholar	Scopus
• Citations	2703	1930
• h-index	30 (117 articles)	26 (92 articles)
• i10-index	50	

Web of Science ResearcherID: KYP-1420-2024

Journal Papers

1. Mansour M.S., Bilger R.W., and Dibble R.W., "Raman/Rayleigh and Mie-Scattering Measurements in a Reverse Flow Reactor Close to Extinction.", *Proceedings of the Combustion Institute, 22,* ***pp. 711-719, (1989).***
2. Mansour, M. S., Bilger, R.W. and Starner, S.H., "A Reverse Flow Reactor for Turbulence/Chemistry Interaction Studies." *Combustion Science and Technology,* ***65, 1-3, 83 (1989).***
3. Mansour M. S., Bilger R.W., Dibble R.W., "Spatial Averaging Effects in Raman/Rayleigh Measurements in a Turbulent Flame." *Combustion and Flame,* ***82, 411, (1990).***
4. Mansour, M. S., Bilger, R.W. and Dibble, R.W., "Turbulent Partially Premixed Flames of Nitrogen-Diluted Methane Near Extinction." *Combustion and Flame* ***85, 215, (1991).***
5. Mansour M. S., Chen Y-C., Peters N. "The Reaction Zone Structure of Turbulent Premixed Methane-Helium Flames Near Extinction." *Proceedings of the Combustion Institute, 24,* ***pp. 461-468, (1992).***
6. Mansour, M. S., "Two-Plane Two-Dimensional Rayleigh Thermometry Technique for Turbulent Combustion." *Optics Letters,* ***18, 537, (1993).***
7. Mansour, M. S. and Chen, Y-C. "Line Raman/Rayleigh/LIPF Technique for Combustion Using a Tunable KrF Excimer Laser." *Applied Optics, 35(21),* ***pp. 4252-4260 (1996).***
8. Chen, Y-C., Peters, N. and Mansour, M.S. "Measurements of the Detailed Structure in Turbulent H_2-Ar Jet Diffusion Flames with Line-Raman/Rayleigh LIPF-OH Technique." *Proceedings of the Combustion Institute, 26,* ***pp. 97-103 (1996).***
9. Chen, Y-C., Peters, N., Schneemann, G.A., Wruck, Renz, U., and Mansour, M. S., "The Detailed Structure of Highly Stretched Turbulent Premixed Methane-Air Flames." *Combustion and Flame,****107:223-244 (1996).***
10. Chen, Y-C. Fabrizi, M. and Mansour, M. S., "Simultaneous Rayleigh Scattering and Laser Induced CH Fluorescence for Reaction Zone Imaging in High Speed Premixed Hydrocarbon Flames." *Applied Physics B, volume* ***64, pp. 599-605****, (1997).*
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12. Plessing, T., Terhoven, P., Peters, N., and Mansour, M. S. "An Experimental and Numerical Simulation of a Laminar Triple Flame." *Combustion and Flame,* ***115:335-353 (1998)***
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