

## Brief CV of Dr. Tasawar Hayat



**Title:** Distinguished Professor  
& Secretary General Pakistan Academy of Sciences  
(Hilal-i-Imtiaz, Sitara-i-Imtiaz, Tamgha-i-Imtiaz)

**Qualification:** PhD from Quaid-i-Azam University, Islamabad

**Postdoc:** Technical University Darmstadt, Germany

**Field:** Mathematics

**Seminars delivered at the national and international levels = 77**

**Attended conferences at the national and international levels = 46**

**International Conferences organized = 7; National & Int. Projects completed = 17**

**International Speaker in Turkey, USA, Germany, China, Italy, South Africa, Iran, Malaysia, Saudi Arabia, UAE, Sudan, Jordan etc.**

**Reviewer of the international journals = 95**

**Associate editor/member of editorial board of the international journals = 21**

**Established research collaboration with the leading international researchers = 97**

### Research Guidance

- **Promoted scientific cooperation among member institutions of FUIW = 10**  
[This includes institutions in Turkey, Saudi Arabia, Malaysia, Iran, UAE, Qatar, Kuwait, Egypt, Jordan and Pakistan]. In addition, **collaborated with several High Rated Scientists in China by Thomson Reuters/Clarivate Analytics, USA.**
- **Total research students produced in terms of MS and PhD : 196**  
(MS students Produced = 142 and PhD produced = 54)  
Number of **research students** under supervision: 18 (M. Phil.: 7 and Ph.D.: 11)

### Research Publications

- **Total research Publications = 2559**
- **International Publications = 2555 National Publications = 4**
- **Sci publications through ISI WEB. = 2453**
- **Research papers published in the USA journals > 1000**
- **Research papers published in the UK journals = 1088**
- **Total ISI WEB citations of research conducted = 70707**
- **Without self citations through ISI WEB.= 50949**
- **Total impact factor > 6500 ISI WEB h-index = 104**
- **Total google scholar citations = 90621 Google Scholar h-index = 123**
- **Highly cited/hot papers = 131**
- **Total documents by Scopus = 2539, Scopus Citations = 77531**
- **Scopus h-index = 108 Book published by Springer = 01**

## **Standing in the Profession**

- **The Only Pakistani Scientist who is listed “Highly Cited Researcher” in both Mathematics and Engineering by Thomson Reuters/Clarivate Analytics.**
- **There are total twelve TWAS Fellows in Mathematical Science from OIC countries. He is one of such twelve TWAS Fellows.**
- **There are total eight Fellows of Islamic World Academy of Sciences in Mathematics. He is one amongst the eight such fellows.**
- **There are total five Fellows of Pakistan Academy of Sciences in Mathematics. He is one of such five fellows.**
- **An internationally acclaimed Mathematician who has made outstanding contributions to the advancement of science through research collaborations with 97 leading scientists especially in the 10 OIC countries (Turkey, Saudi Arabia, Malaysia, Iran, UAE, Qatar, Kuwait, Egypt, Jordan and Pakistan), China, Vietnam, Germany, Italy, South Africa, USA and UK.**
- **Rated topmost mathematician in the Country by a book (in 2011) published by Pakistan Council for Science and Technology (PCST) to date.**
- **Rated the best researcher in the Country for research productivity allowance for the years 2007 to 2012 by PCST.**
- **Recognized World’s authority for homotopic and boundary layer theories of non-Newtonian fluids with nanodynamics.**
- **Rated high amongst the excellent researchers in the scientific community of the fields for neurodynamics, Cattaneo-Christove theories with entropy optimization and nonlinear dynamics about peristalsis, system ecology, renewable energy and climate change thermodynamics.**

## **Awards and Honors      Total = 42 (International = 26 and National = 16)**

The detail is as follows:

1. Recipient of 17<sup>th</sup> **Khwarizmi International Award (KIA)** in 2004
2. Winner of **KIA ISESCO International Prize**
3. Winner of **ISESCO Int. Award** (2004, 2012).
4. Winner of **COMSTECH Int. Award** in Mathematics (2015).
5. Awarded **M. Raziuddin Siddiqui Gold Medal** in Physical Sciences by the Pakistan Academy of Sciences, 1999.
6. Earned **Abdus Salam Prize** in Mathematics (1999).
7. Awarded **Young Scientist of the South Award** of the Third World Academy of Sciences (**TWAS**), Trieste, Italy, 2000.
8. Recipient of **Alexander Von Humboldt (AVH.)** fellowship by an international organization from Germany (2000).
9. Awarded **Silver medal** for standing second in order of merit in B.Sc. examination in 1988.
10. **Associate Member** of Abdus Salam ICTP, Italy.
11. **Distinguished National Professor** of Higher Education Commission (HEC) (2007).

12. Awarded **Research Productivity Allowance** every year by PCST, Pakistan.
13. Awarded **Tamgha-i-Imtiaz (T.I) (Civil award)** by the President of Pakistan (2005)
14. Awarded **PAS Gold Medal** by the Pakistan Academy of Sciences (2006)
15. **Fellow of Pakistan Academy of Sciences** (2006).
16. **Best University Teacher Award** (2005) awarded by the Higher Education Commission (HEC).
17. **Honorary Professorship** at University of Witwatersrand, Johannesburg, South Africa (2007)
18. Included in **Who's Who in Science and Engineering, USA**
19. Included in **Who's Who in the World, USA**
20. **Honorary Professorship** at Northwest University, Mafikeng, South Africa (2008)
21. **Adjunct Professorship** at International Islamic University, Islamabad, Pakistan (2008)
22. **Recipient of Best Researcher Productivity Award** by Pakistan Council for Science and Technology (PCST) in (2008).
23. **Declared Best Researcher** by PCST in 2008.
24. **Recipient of Best Researcher Productivity Award** by Pakistan Council for Science and Technology (PCST) (2010)
25. **Visiting Professorship** at University Technology Malaysia, Malaysia (2009)
26. **Visiting Professorship** at King Saud University, Saudi Arabia (2009)
27. **Adjunct Professorship** at University Technology Malaysia, Malaysia (2009)
28. **Fellow of Third World Academy of Sciences** (2010).
29. Awarded **Sitara-i-Imtiaz (S.I) (Civil award)** by the President of Pakistan (2010)
30. **Distinguished Adjunct Professorship** at King Abdulaziz University, Saudi Arabia (2010).
31. **Best Young Research Scholar award** (2010) by HEC.
32. **Distinguished Scientist of the year award** (2010) by PAS
33. **Fellow of Islamic World Academy of Sciences** (2011).
34. **Ranked Highly Cited Researcher in (Mathematics, Engineering) (2014 to 2017).**
35. **Ranked Highly Cited Research in Engineering (2018).**
36. Awarded **Hilal-I-Imtiaz (Civil award)** by the President of Pakistan (2018).
37. **Adjunct Research Professor** at Ajman University, UAE (2020).
38. **Guest Professor** at Nanjing Southeast University, China (2018).
39. **Distinguished Adjunct Professor** at NCEPU, Beijing, China (2019).
40. **Visiting Professor** at Tsinghua University, China (2019).
41. **Distinguished Adjunct Professor** at China Petroleum University, China (2020).
42. **Visiting Professor** at Science Island of Chinese Academy of Sciences, Hefei, China (2020).
43. Awarded **International OBADA PRIZE 2021** for his outstanding research and scholarly contribution in the field of Mathematics. Obada-Prize is an international award, endowed by the Natural Sciences Publishing supported by the African Academy of Sciences (North Africa Branch).