



Engr. Dr. Mahmood Saleem

Professor of Chemical Engineering

PhD Chemical & Process Engineering (Austria), M.Sc. Eng. Chem.Eng. (PU), B.Sc.Eng. Chem.Eng. (PU)

Member AIChE, Member ACS, Member PEC, Fellow PIChE, ME PCS

Contact:

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Date of Birth: 13. 05. 1967

Highest qualification: Dr. Techn. From Austria (equivalent to Ph.D) in Chemical & Process Engineering

Experience: 20 years (1992-2012) of professional experience in industry, engineering education, and research at National as well as International level. The jobs involved teaching and research, management and leadership, and curriculum and laboratories development.

Research publications: 13 research publications in ISI indexed journals, 15 in HEC approved Journals, 23 National and International conference proceedings, and 1 book.

Research Supervision: Bachelor to Doctoral level (HEC approved Supervisor)

Funded Projects: 02 HEC funded Projects worth PKR 8 Million, 02 University funded projects

Editorial Services: Journal of PIChE, Journal of FET

Reviewer: Powder Technology, JQTM, JFET, JPIChE

A. Academic qualification

Years attended	Board/ University	Certificate/degree year	Major subjects
2003- 2007	Graz University of Technology Graz, Austria	Doctor technik (Ph.D equivalent)	Chemical & Process Engineering
1997–1999	University of the Punjab Lahore, Pakistan	M. Sc. Eng. Chemical Engineering	Chemical Engineering
1986–1991	University of the Punjab Lahore, Pakistan	B. Sc. Eng., Chemical Engineering	Chemical Engineering
1982-1985	Board of Secondary & Higher Secondary Education, Multan, Pakistan	Higher Secondary School Certificate	Mathematics Physics Chemistry English Urdu
1972-1982	Board of Secondary & Higher Secondary Education, Multan, Pakistan	Secondary School Certificate	Mathematics Physics Chemistry Biology English Urdu

B. Research Projects

1. Production of bio-oil using Fast Pyrolysis of Bio-mass (on-going)
2. Co-combustion of coal and waste in CFBC (on-going)
3. Investigations for improving heat economy of gas fired water heaters .
4. Kinetics study of reaction of CaO with moist flue gases in TGA, Graz University of Technology, Graz, Austria.
5. Effect of solid sorbents on filter media in hot gas cleaning with jet pulsed bag filters, industry sponsored study, Graz University of Technology, Graz, Austria.
6. Gas cleaning with jet pulsed bag filter, Doctoral project under the supervision of Prof. Dr. Gernot Krammer at Graz University of Technology, Graz, Austria, which included, collaborative project between Graz University of Technology and NTNU Norway.
7. A technical report on comparative study of liquid-liquid extraction equipments under the supervision of Prof. Dr. Zahoor ul Hassan Rizvi (M.Sc. project).
8. Production of iron free alum from indigenous bauxite under the supervision of Prof. Dr. Asghar Ali Butt (working as research officer).
9. Pulp and paper from indigenous resources like bamboo under the supervision of Prof. Dr. Asghar Ali Butt (working as research officer).
10. Extraction of barium from indigenous barites under the supervision of Dr. Niaz Ahmed.

C. Thesis/Reports/Books

1. A book "Gas Cleaning: An experimental study", 2010, published by VDM-Verlag, Germany.
2. "Experimental study of gas cleaning with jet pulsed bag filter", Ph.D thesis submitted to Graz University of Technology, Graz, Austria in 2007.
3. "Comparative study of liquid-liquid extraction equipments", Master's thesis submitted, in partial fulfillment of the requirements for the degree of M. Sc. Engineering (Chemical), to Institute of Chemical Engineering & Technology, University of the Punjab in 1998.
4. "Manufacturing of Penta-erythritol", Design thesis submitted, in partial fulfillment of the requirements for the degree of B. Sc .Engineering (Chemical), to Institute of Chemical Engineering & Technology, University of the Punjab in 1991.
5. "Extraction of Barium from indigenous barites", Process research report submitted, in partial fulfillment of the requirements for the degree of B. Sc. Engineering (Chemical), to Institute of Chemical Engineering & Technology, University of the Punjab in 1991.

D. Research papers in Journals

Authors	Title	Journal	Vol.	No.	Pages	Year	Publisher	Impact Factor	HEC Approved (Category)
Mahmood Saleem, Gernot Krammer, M. Suleman Tahir	Measurement and Simulation of Axial Velocity in a Filter Bag	Chemical Engineering & Technology	Accepted	Oct. 2012	xx	2012	WILEY VCH Verlag	1.394	W
Mahmood Saleem et al.	Effect of Operating Parameters on Resistance Parameters of Filter Media and Limestone Dust Cake for Uniformly Loaded Needle Felts in a Pilot Scale Test Facility at Ambient Conditions	Powder Technology	228	Sep. 2012	100-107	2012	Elsevier	2.009	W
Saleem, M.; Krammer, G.;	On the Stability of Pulse Jet Regenerated Bag Filter Operation	Chemical Engineering & Technology	35	5	904-910	2012	WILEY VCH Verlag	1.394	W
Saleem, M.; Krammer, G.; Khan, R.U.; Tahir, M.S.;	Influence of operating parameters on cake formation in pilot scale pulse-jet bag filter	Powder Technology	224		28-35	2012	Elsevier	2.009	W
Tahir, M.S.; Saleem, M.; Malik, S.R.; Khan, J.R.; Siebenhofer, M.;	An innovative and advanced oxidation process for effluent treatment through wet tube-type electrostatic precipitation	Chemical Engineering and Processing: Process Intensification	52		16-20	2011	Elsevier	1.957	W

Curriculum Vitae

Suleman Tahir, M.; Saleem, M.; Siebenhofer, M.;	Characterization of brush type discharge electrodes and impact of enhanced corona discharge on operation of electrostatic precipitators	Journal of Electrostatics	70	1	144-148	2011	Elsevier	1.078	W
Saleem, M.; Khan, R.U.; Tahir, M.S.; Krammer, G.;	Experimental study of cake formation on heat treated and membrane coated needle felts in a pilot scale pulse jet bag filter using optical in-situ cake height measurement	Powder Technology	214	3	388-399	2011	Elsevier	2.009	W
Tahir, MS; Saleem, M.; Siebenhofer, M.;	Effect of the Geometry of Discharge Electrodes on Corona Onset Field Intensity and Collection Efficiency of Electrostatic Precipitators	Chemie Ingenieur Technik	82	9	1383-1384	2010	Wiley Online Library	0.347	W
Koch, M.; Saleem, M.; Krammer, G.;	Measurement Error Correction for Distributed Properties- Filter Cake Thickness Measurements	Particle & Particle Systems Characterization	24	6	431-439	2007	Wiley Online Library	0.633	W
Saleem, M.; Krammer, G.;	Effect of filtration velocity and dust concentration on cake formation and filter operation in a pilot scale jet pulsed bag filter	Journal of hazardous materials	144	3	677-681	2007	Elsevier	3.997	W
Saleem, M.; Krammer, G.;	Optical in-situ measurement of filter cake height during bag filter plant operation	Powder Technology	173	2	93-106	2007	Elsevier	2.009	W
Ruether, M.; Saleem, M.; Bischof, H.; Krammer, G.;	measurement of dust deposition on bag filters using stereo vision and non-rigid registration	Assembly Automation	25	3	196-203	2005	Emerald Group Publishing Limited	0.65	W

Curriculum Vitae

G. Krammer, M. Saleem, K. O. Sonju, P.O. Nos	Evaluation of high temperature large scale granular bed filter operation for fly ash removal from bark combustion	Chemical Engineering Transactions ISBN 88- 900775-7-3	6		347- 352	2005	AIDIC, Italy	0.004	W
Michael Koch, Mahmood Saleem, Peter Puecher, Gernot Krammer	Conditioning of Filter Bags with Reactiv CaO and Ca(OH) ₂ dusts in flue gas	Filtration: the International Journal for filtration and separation	9	3	219- 223	2009	The Filtration Society. UK	0.111	w
Kamil, M.; Saleem, M.; Hameed, S.R.; Rizvi, Z.U.H.;	Pulping of Wheat Straw using Sulfite Process: An Experimental Study	JOURNAL OF FACULTY OF ENGINEERI NG & TECHNOLO GY	16	1	40915	2009	PU, Lahore- Pakistan		Y
Younis, MN; Saeed, MS; Khan, S.; Furqan, MU; Khan, RU; Saleem, M.;	Production and Characterization of Biodiesel from Waste and Vegetable Oils	Journal of Quality and Technology Managemen t	5	1	111- 121	2009	PU, Lahore- Pakistan		Y
U. Irshad, MN Sharif, F Rabbani, A Rauf, M Saleem	Experimental study of urea granulation	The Nucleus	46	3	95-99	2009	PAEC, Islamabad , Pakistan		Y
M.S.Tahir, M. Saleem, C. Gruber, M. Siebenhofer	Impact of the design of discharge electrode on the Current/Voltage Characteristics and the rate of migration in ESP	The Nucleus	46	3	231- 235	2009	PAEC, Islamabad , Pakistan		Y
SALEEM, M.; TAHIR, MS; KRAMMER, G.;	EXPERIMENTAL STUDY OF FILTER CAKE FORMATION ON DIFFERENT FILTER MEDIA	The Nucleus	46	3	83-89	2009	PAEC, Islamabad		Y
Ahmed, A.; Ahmad, N.; Shah, R.; Bhatti, M.N.; Saleem, M.;	Coal Desulfurization by Solvent Leaching Methods	Journal of Faculty of Engineering & Technology	200 7		47-56	2007- 2008	PU, Lahore- Pakistan		Y
Tahir, M.S.; Saleem, M.;	Experimental Study of Chemical De- scaling-I: Effect of Acid Concentration	Journal of Faculty of Engineering & Technology	200 7		1 to 9	2007- 2008	PU, Lahore- Pakistan		Y

Curriculum Vitae

M.N, Younis et al.	Production and Characterization of Biodiesel from Waste and Vegetable Oils	Journal of Quality and Technology Management	5	1	111-121	2009	PU, Lahore-Pakistan		Y
Mahmood Saleem, Ahsan Riaz	Experimental Study of the Effect of Stack Area on Thermal Performance of Storage Type Water Heaters Burning Natural Gas	JPICHE	37		2 to 6	2010	PU, Lahore-Pakistan		Y
Mahmood Saleem, Niaz Ahmed	Gas Cleaning with Jet Pulsed Bag Filter: A review	JPICHE	35	1	65-90	2007	Pakistan Institute of Chemical Engineering & Technology		Y
Khan, RU; Saleem, M.; Shafeeq, A.;	Vacuum Gas Carburizing with Acetylene-Gas Phase Modeling of a Bench Scale Reactor	JPICHE	37	1	25-29	2009	Pakistan Institute of Chemical Engineering & Technology		Y
M Saleem, NA Akhter, MA Butt, MA Jamil	Preparation of Iron Free Aluminium Sulphate from Indigeneous Bauxite Through Bayers Process	JPICHE	23		95-97	1995	Pakistan Institute of Chemical Engineering & Technology		Y
M Saleem, RU Khan, NA Akhter, ZU Sheikh	Recovery of Barium from Indigenous Barytes	JPICHE	23		109-111	1995	Pakistan Institute of Chemical Engineering & Technology		Y
Mahmood Saleem	Experimental study of the dust cake height distribution on flexible filter media	Scale Up: Magazine for Process Engineering	3		14-16	2006	Graz University of Technology	Nil	

E. Research papers in proceedings

Authors	Title	In Proceedings	Year	Publisher
WAKhan, MS Tahir, K Shahzad, M Saleem, NA Akhtar	Burning of Pakistani (Salt Range) Coal in a CFB and Radial Heat Transfer Investigations	UK-Pakistan Coal Conference 2012, Leeds, UK	July, 2012	University of Leeds, UK
Saleem., M.; Tahir, M.S.; Krammer, G.;	Experimental measurement of axial gas flow distribution in pulse-jet bag filter	11th World Filtration Congress, Graz, Austria	2012	Filtech Exhibitions Germany
M. S. Tahir, M. Saleem, S.R. malik, J.R. Khan, M.S.;	UV-radiation in Wet-tube Electrostatic Precipitator (WESP),	International Conference on Engineering Sciences, Lahore-Pakistan	2012	ICET, PU, Lahore-Pakistan
Tahir, M.S.; Saleem, M.; Siebenhofer, M.;	Advanced Oxidation Processes with DC-Corona Discharge	AICHE 2011 Annual Meeting, Minneapolis, USA	2011	American Institute of Chemical Engineers
Saleem, M.; Tahir, M.S.; Krammer, G.;	On the Stability of Pulse-Jet Regenerated Bag Filter In Case of One Regeneration Pulse At Upper Pressure Drop Limit	AICHE 2011 Annual Meeting, Minneapolis, USA	2011	American Institute of Chemical Engineers
Tahir, M.S.; Saleem, M.; Siebenhofer, M.;	Degradation of Phenol in Tubular Corona Reactor (TCR)	4th Symposium on Engineering Sciences	2011	ICET, PU, Lahore-Pakistan
Saleem, M.;	Comparative Study of combustion of waste in combination of coal in CFBC	4th Symposium on Engineering Sciences	2011	ICET, PU, Lahore-Pakistan
Saleem, M.;	Characterization of fuel blends (coal and biomass) using TGA	4th Symposium on Engineering Sciences	2011	ICET, PU, Lahore-Pakistan
LATIF, M.; Saleem, M.; Khan, G.;	Pre-Treatment Methods of Minerals for Ex-Situ Mineral Carbonation of Mafic and Ultramafic Minerals	4th Symposium on Engineering Sciences	2010	ICET, PU, Lahore-Pakistan
Mahmood Saleem, Gernot Krammer, Aamir Ijaz	Effect of operating parameters on stability of Jet Pulsed Bag Filter: an experimental study	10th World Filtration Congress, Leipzig, 14-18 April, 2008, Germany	2008	Filtech Exhibitions Germany

Curriculum Vitae

Aamir Ijaz, Mahmood Saleem	Experimental study on flow through concentric porous filter candle	10th World Filtration Congress, Leipzig, 14-18 April, 2008, Germany	2008	Filtech Exhibitions Germany
Michael Koch, Peter Puecher, Mahmood Saleem, Gernot Krammer	Conditioning of Filter Bags with Reactive CaO and Ca(OH) ₂ dusts in flue gas	ACHEMA, 27/2/2007-1/3/2007	2007	AECHEMA
Mahmood Saleem, Gernot Krammer, Aamir Ijaz	Investigation of concave shape of transient pressure drop increase in pulse jet cleaned bag filter	ACHEMA, 19/05/2006, Frankfurt, Germany	2006	ACHEMA
Mahmood Saleem, Gernot Krammer	Influence of Dust loading and Filtration Velocity on Bag Filter Operation and Cake Formation	5th European Meeting on Chemical Industry and Environment, May 3-5, 2006	2006	EUChIE, Austria
Mahmood Saleem, Mihael Koch, Gernot Krammer	Study of dust cake on bag filter: thickness, patch size and fractal dimension	10th Nordic Filtration Symposium, September 3-5, 2006, Norway	2006	NFSO, NORWAY
Mathias Ruether, M. Uray, Horst Bischof, Gernot Krammer, Mahmood Saleem	An optical measurement device for evaluating dust deposition on flexible filter surface	10th Computer Vision Winter Workshop, February 2-4, 2005, Vienna Austria	2005	TU, Vienna, Austria
Gernot Krammer, Sonju, K., NOS,P.O.,	Model Evaluation of derailing high temperature large scale granular bed filter for fly ash removal from bark combustion	AIDIC Conference Series, 2005, Italy	2005	AIDIC, Italy
Mahmood Saleem, Gernot Krammer, Mathias Ruether, Horst Bischof	In-situ optical measurement of cake thickness distribution and cake detachment on patchily cleaned commercial bag filter	Filtech, October 11-13, 2005, Wiesbaden, Germany	2005	Filtech Exhibitions Germany
Gernot Krammer, Andreas Kavouras, Mahmood Saleem	Low frequency pressure drop pattern during continuous filter	PARTEC, 2004, Germany	2004	PARTEC, GERMANY
Niaz Ahmed, AK durrani, M. Zafar, BM Gibbs, Mahmood Saleem	The Control of gaseous emissions from fluidised bed combustion burning coal	First International conference on fuel and environment, July, 1996, Peshawar	1996	University of Peshawar

F. Employment Record

Sr. No.	Duration	Institution	Position	Responsibilities
1	30 April 2008 – to date	University of the Punjab, Lahore, Pakistan	Professor of Chemical Engineering	▪ Teaching of the following modules to B.Sc. Engineering (Chemical) classes: ▪ Chemical Plant Design, ▪ Chemical Engineering Thermodynamics, ▪ Unit operations, ▪ Transport Phenomena, and ▪ Computer applications in Chemical Engineering ▪ Teaching of Modeling and simulation to Ph.D. class ▪ Research and supervision ▪ In charge Industrial Training and Tours ▪ Advisor Students ▪ Chief Coordinator CPDC ▪ Coordinator Chemical Plant Design Projects
1.	2007-to 29 April 2008	University of the Punjab, Lahore, Pakistan	Assistant Professor	▪ Teaching of the following modules to B.Sc. Engineering (Chemical) classes: ▪ Chemical Plant Design, ▪ Chemical Engineering Thermodynamics, ▪ Unit operations, ▪ Transport Phenomena, and ▪ Computer applications in Chemical Engineering ▪ Teaching of Modeling and simulation to Ph.D. class ▪ Research and supervision ▪ In charge Industrial Training ▪ Coordinator Chemical Plant Design Projects
2.	2003-2007	Graz University of Technology, Graz, Austria	Doctoral Fellow	Worked on research projects gas cleaning projects including: ▪ Hot Flue gas cleaning,

				▪ Kinetics of CaO in humid flue gas, and ▪ Gas cleaning with Jet pulse bag filter
3.	2002-2003	Bahrain Training Institute, Kingdom of Bahrain	Head of Chemical Technology Section	▪ Management of Chemical Technology section ▪ Programs management ▪ Resources development (Curriculum, Modules, & Labs) ▪ In charge Quality assurance circle ▪ Teaching of Unit operations and Fluid flow modules ▪ Member advisory council ▪ Member selection committee ▪ Senior invigilator during examinations
4.	2000–2002	Bahrain Training Institute, Kingdom of Bahrain	Lecturer of Chemical Technology	▪ Teaching of Unit operations, Fluid Flow, Heat & Mass Transfer and labs ▪ Program management ▪ Curriculum development ▪ Quality assurance
5.	1994-2000	University of the Punjab Lahore, Pakistan	Lecturer/Assistant professor of Chemical Technology	▪ Teaching of Chemical Plant design, Chemical Engineering Thermodynamics ▪ Conducting labs of Transport Phenomena, Particle Technology, and Instrumentation & process control ▪ Research and design project supervision ▪ Member board of studies ▪ External examiner for the board of Technical education ▪ Member syllabi review committee
6.	1992-	University of the Punjab	Research	▪ Management of pulp & paper research lab

	1994	Lahore, Pakistan	Officer	▪ Conducting industry sponsored research project ▪ Labs development ▪ Research coordination ▪ Teaching of process design
7.	1992- 1992	Dawood Hercules Ltd., Sheikhpura, Pakistan	Trainee Engineer (Chemical)	▪ In house and on job training of ammonia, Urea and, Utilities Plant Operation

G. Lectures delivered at International/National forums

- 11th World Filtration Congress, 16-20 April, 2012, Graz, Austria
- One Day Symposium on Energy Crisis in Pakistan and its Solutions, December 29, 2011, NFC IEFER, Faisalabad, Pakistan.
- International Conference (ICAPE 2008), 2008, Islamabad, Pakistan
- 10th World Filtration Congress, Wiesbaden, Germany, 2008..
- Recent Trends in Chemical Engineering Research, PIChE seminar, 2007, Lahore.
- Energy Conservation and Gas Cleaning Technologies to control Air Pollution, workshop at NFC Institute of Engineering and Fertilizer research, Faisalabad, 29 Aug.-1st Sept., 2007.
- Mini Symposium on Chemical & Processing Engineering, 2006, Graz, Austria.
- ACHEMA 2006, Frankfurt, Germany.
- FILTECH 2005, Wiesbaden, Germany.

H. Workshops/ Symposia conducted/Organised

- Organized International Conference on Engineering Sciences (ICES2012) in Feb., 2012, Lahore, Pakistan.
- Organized 4th symposium on Engineering Sciences in March 2011, Lahore, Pakistan.
- Organized 3rd symposium on Engineering Sciences in March 2010, Lahore, Pakistan.
- Organized 2nd symposium on Engineering and Applied Sciences in April 2009.
- Organised 1st symposium on Engineering and Applied Sciences in April 2008.
- Organized workshop on LaTeX for document preparation for faculty members at the institute of Chemical Engineering, University of the Punjab in 2007.
- Organized workshop on Matlab for technical computing for Pakistani research students in Graz, Austria in 2006.
- Organized workshop on LaTeX for document preparation for Pakistani research students in Graz, Austria in 2006.

- i. Organized workshop on Matlab for technical computing for Pakistani research students in Graz, Austria in 2005.
- j. Organized workshop on LaTeX for document preparation for Pakistani research students in Graz, Austria in 2005.

I. Countries Visited

Bahrain – worked there for three years (200-2003)

Austria- Studied there for three and half year (2003-2007), 2012

Germany- Visited in 2005, and 2006, and 2008 for attending conferences

France- Visited in 2007 for excursion

Italy – Visited in 2007 for excursion

Saudi Arabia- Visited in 2004 to perform Hajj

Dubai- Visited for one day during transit at Dubai airport

J. Industries Visited

Visited many industries in central Punjab, upper Punjab, and northern part of Pakistan (1986-2000)

Visited all major industries of Bahrain (200-2003)

Also visited many chemical and process engineering industries in Austria and Germany during my stay in Austria (2003-2007)

K. Distinctions/Awards

- a. Punjab University research Incentive Award for 2011
- b. Punjab University research Incentive Award for 2010
- c. Punjab University research Incentive Award for 2007
- d. Overseas merit scholarship for higher studies by the Higher Education Commission, Pakistan 2003-2007
- e. Merit scholarship of University of the Punjab, Lahore 1986, 1987. 1988, 1989.
- f. Merit scholarship of Board of intermediate and secondary education, Multan, 1982-1984.

L. Memberships of professional/Academic/social/

Literary bodies

- a. Member American Chemical Society
- b. Member American Institute of Chemical Engineers
- c. Life Member PEC
- d. General Secretary PIChE
- e. Life Fellow PIChE
- f. Member Academic Council, University of the Punjab
- g. Member Senate, University of the Punjab
- h. Member board of studies, ICET, PU, Lahore.

- i. Member BOS of Polymer Technology, NTU, Faisalabad.
- j. Member Board of Faculty, UoP, Lahore.
- k. Member Curriculum Review Committee of HEC for Chemical Engineering.
- l. Member Curriculum Review Committee.
- m. Member Curriculum Development Committee of the Institute.
- n. Member Disciplinary committee of the Institute.
- o. Executive member of Corrosion Society
- p. Editor of the journal of PIChE.
- q. Editor, Journal of Faculty of Engineering & Technology, University of the Punjab, Lahore.
- r. Co-editor of journal of quality & Technology management.
- s. Former Member advisory council at Bahrain Training Institute, Bahrain.
- t. Former Member recruitment committee at Bahrain Training Institute, Bahrain.
- u. Former Member board of studies at the Institute of Chemical Engineering & Technology.
- v. Elected Secretary of students union (1989) at the Institute of Chemical Engineering & Technology.
- w. External Examiner University of Engineering & Technology, Lahore.
- x. External Examiner Board of Technical Education Punjab.

M. Languages

English, German, Arabic, Urdu, Punjabi, Seraiki

N. Computational Skills

Competent in the use of modern computation tools like MS office, Matlab, Fluent, ASPEN, CHEMCAD

P. Future research interests

Future research interests include Fuel and Energy, chemical gas cleaning processes, gas solid reacting and non reacting systems, filtration and separation,

Q. Supervision

- Supervised approximately 30 design projects at undergraduate level at the institute of chemical engineering & Technology, University of the Punjab
- 6 Master Thesis completed and 2 on going
- Supervised 5 collaborative projects in Bahrain
- Supervised one MS project in Austria
- Co-supervisor of one PhD student.

R. Formal Trainings

- Development and Management of Development Projects (2012)
- Scientific Computing using Matlab (2005)
- Computational Fluid Dynamics using FLUENT (2005)

- Numerical Methods (2006)
- Statistical Theory of Stochastic processes (2006)
- Faculty development training workshop (1996)

L. References

1. Prof. Dr. Niaz Ahmed

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2. Prof. Dr. Rafi Ullah Khan

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