Muhammad Hanif

Adjunct Faculty

College of Electrical & Mechanical Engineering

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About

Dr. Muhammad Hanif is working as Adjunct Faculty in the College of Electrical & Mechanical Engineering. Dr. Muhammad Hanif has a PhD in Physics/Laser Sepctroscopy. Dr. Muhammad Hanif has published 36 research articles & conference papers having a citation count of 321, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Physics/Laser Sepctroscopy 1997 - 2001
Quaid-i-Azam University , Pakistan

MPhil in Solid State Physics 1988 - 1990
University of the Punjab , Pakistan

MSc in Physics 1985 - 1987
Islamia University of Bahawalpur , Pakistan

BSc in Physics, Math A & B 1982 - 1984
BZU, Multan , Pakistan

Experience

Adjunct Faculty 2020- Present
College of Electrical & Mechanical Engineering

Adjunct Faculty 2019 - 2020
College of Electrical & Mechanical Engineering

Instr Cl 'A' 2008 - 2016
MCS (NUST) , MCS, Rawalpindi

Post Doctorate 2007 - 2008
University of Glasgow , United Kingdom

Visiting Research Fellow 2002 - 2007
Quaid-i-Azam University , Quaid-i-Azam University, Islamabad

Instr Cl 'B' 2002 - 2007
NUST College of E&ME , College of E&ME, Peshawar road Rawalpindi

Instr Cl 2001 - 2002
PMA,Kakul , PMA,Kakul

GSO-III (Edn) 1995 - 1997
HQ 328 Bde , HQ 328 Bde

Instr C 'C' 1993 - 1995
Military College Jhelum , Military College Jhelum

GSO-III (Edn) 1991 - 1993
HQ Multan Log Area , HQ Multan

Research Articles

Emission Studies of Silicon Plasma Produced by a Nd: YAG Laser 2018
Muhammad Hanif M. Salik
Silicon , Volume: 10 Issue: 3 Pages: 1067-1075
Impact Factor: 1.210 | **Quartile:** 4 | **Citations:** 2

DOI: 10.1007/s12633-017-9573-6

Spectroscopic Studies of Indium Plasma Produced by Fundamental (1064 nm) and Second (532 nm) Harmonics of an Nd: YAG Laser 2018

Muhammad Hanif M. Salik M. A. Baig

Journal of Russian Laser Research, Volume 39, Issue 1, Pages 37-45

Impact Factor: 0.777 | **Quartile:** 4

DOI: 10.1007/s10946-018-9687-3

Laser based diagnostics of slaked lime plasma 2016

M. Salik Muhammad Hanif J. Wang X.Q. Zhang

OPTIK , Volume: 127 Issue: 4 Pages: 1940-1945

Impact Factor: 0.835 | **Quartile:** 4 | **Citations:** 4

DOI: 10.1016/j.ijleo.2015.11.112

Spectroscopic studies of sodium nitrate plasma produced by nanosecond laser ablation 2016

Muahmmad Salik Muhammad Hanif J.wang X. Q. Zhang

Radiation Effects and Defects in Solids , Volume: 171, Issue: 3-4, Pages: 259-270

Impact Factor: 0.443 | **Quartile:** 4

DOI: 10.1080/10420150.2016.1179306

Laser plasma interaction during visible and IR laser ablation of chromite mineral target 2015

Muhammad Salik Muhammad Hanif J. Wang X. Q. Zhang

High Energy Chemistry , Volume 49, Issue 5, Pages 361-366

Impact Factor: 0.690 | **Quartile:** 4 | **Citations:** 1

DOI: 10.1134/S0018143915050112

Diagnostics of Zinc-Selenium plasma produced by Nd:YAG laser 2015

Muhammad Hanif Muhammad Salik Fahim Arif

Optics and Spectroscopy , Volume: 119, Issue: 1, Pages: 7-15

Impact Factor: 0.644 | **Quartile:** 4 | **Citations:** 1

DOI: 10.1134/S0030400X15070127

Diagnostics of Tin Plasma Produced by Visible and IR Nanosecond Laser Ablation 2015

Muhammad Hanif M.Salik

Contributions to Plasma Physics, Volume 55, Issue 4, Pages 290-298

Impact Factor: 1.255 | **Quartile:** 3 | **Citations:** 1

DOI: 10.1002/ctpp.201400055

Spectroscopic study of carbon plasma produced by the first (1064 nm) and second (532 nm) harmonics of Nd:YAG laser 2015

Muhammad Hanif M. Salik Fahim Arif

Plasma Physics Reports, Volume: 41 Issue: 3 Pages: 274-280

Impact Factor: 1.010 | **Quartile:** 3 | **Citations:** 6

DOI: 10.1134/S1063780X15030034

Optical emission characterization of laser ablated zirconium plasma 2015

Muhammad Hanif M. Salik

Optics and Spectroscopy , Volume: 118, Issue: 4, Pages: 631-638

Impact Factor: 0.644 | **Quartile:** 4 | **Citations:** 3

DOI: 10.1134/S0030400X15040062

Optical Emission Studies of Molybdenum Plasma Produced by an Nd:yag Laser 2014

Muhammad Hanif M. Salik

Journal of Russian Laser Research, Volume: 35 Issue: 3 Pages: 230-238

Impact Factor: 0.546 | **Quartile:** 4 | **Citations:** 11

DOI: 10.1007/s10946-014-9417-4

Spectroscopic characterization of laser-ablated manganese sulfate plasma 2014

M. Salik Muhammad Hanif J. WANG X. Q. ZHANG

Laser and Particle Beams, Volume: 32 Issue: 1 Pages: 137-144

Impact Factor: 1.295 | **Quartile:** 3

DOI: 10.1017/S0263034614000020

Optical emission studies of sulphur plasma using laser induced breakdown spectroscopy 2014

Muhammad Hanif M. Salik

Optics and Spectroscopy , Volume: 116 Issue: 2 Pages: 315-323

Impact Factor: 0.723 | **Quartile:** 4 | **Citations:** 17

DOI: 10.1134/S0030400X1402009X

Spectral studies of nanosecond laser interaction with magnesium sulfate target in air 2014

Muhammad Salik Muhammad Hanif Jiasheng Wang

Journal of Plasma Physics, Volume: 80 Pages: 67-80 Part: 1

Impact Factor: N/A | **Citations:** 2

DOI: 10.1017/S0022377813000986

Peristaltic transport of a Maxwell fluid in a porous asymmetric channel through a porous medium 2014

Safia Akram Muhammad Hanif S. Nadeem

Cogent Engineering , Volume 1, Issue 1

Impact Factor: 0 | **Citations:** 9

DOI: http://dx.doi.org/10.1080/23311916.2014.980770

Laser Based Optical Emission Studies of Zinc Oxide (ZnO) Plasma 2013

Muhammad Hanif Muhammad Salik Muhammad Anwar Baig

Plasma Chemistry and Plasma Processing, Volume: 33 Issue: 6 Pages: 1167-1178

Impact Factor: 1.599 | **Quartile:** 2 | **Citations:** 11

DOI: 10.1007/s11090-013-9478-0

Laser-induced breakdown spectroscopic study of ammonium nitrate plasma 2013

Muhammad Hanif M. Salik M. A. Baig

Plasma Physics Reports, Volume: 39 Issue: 12 Pages: 1019-1025

Impact Factor: 0.747 | **Quartile:** 3 | **Citations:** 4

DOI: 10.1134/S1063780X13120040

Numerical and analytical treatment on peristaltic flow of Williamson fluid in the occurrence of induced magnetic field 2013

Safia Akram S. Nadeem Muhammad Hanif

Journal of Magnetism and Magnetic Materials, Volume: 346 Pages: 142-151

Impact Factor: 2.002 | **Quartile:** 2 | **Citations:** 52

DOI: 10.1016/j.jmmm.2013.07.014

Plasma properties of nano-second laser ablated iron target in air 2013

Muhammad Hanif Jiasheng Wang Xiqing Zhang Muhammad Salik

International Journal of Physical Sciences, Vol. 8(35), pp. 1738-1745

Impact Factor: 0

DOI: 10.5897/IJPS2013.3902

Diagnostics of a Potassium Plasma Produced by Visible and IR Nanosecond Laser Ablation 2013

M. Salik Muhammad Hanif J. Wang X. Q. Zhang

Journal of Russian Laser Research, Volume: 34 Issue: 4 Pages: 323-330

Impact Factor: 0.606 | **Quartile:** 4

DOI: 10.1007/s10946-013-9357-4

Diagnostic Study of an Fe-Ni Alloy Plasma Generated by the Fundamental (1064 nm) and Second (532 nm) Harmonics of an Nd: YAG Laser 2013

Muhammad Hanif Muhammad Salik Muhammad Aslam Baig

Plasma Science and Technology , Volume 15, Issue 5, Pages 397-402

Impact Factor: 0.596 | **Quartile:** 4 | **Citations:** 2

DOI: 10.1088/1009-0630/15/5/01

Laser-based optical emission studies of barium plasma 2013

Muhammad Hanif M. Salik Nek M. Sheikh M. A. Baig

Applied Physics B-Lasers and Optics, Volume: 110, Issue: 4, Pages: 563-571

Impact Factor: 1.634 | **Quartile:** 2 | **Citations:** 17

DOI: 10.1007/s00340-012-5293-1

Optical spectroscopic studies of titanium plasma produced by an Nd : YAG laser 2013

Muhammad Hanif M. Salik M. A. Baig

Optics and Spectroscopy , Volume 114, Issue 1, Pages 7-14

Impact Factor: 0.673 | **Quartile:** 4 | **Citations:** 23

DOI: 10.1134/S0030400X13010116

Diagnostic Study of Nickel Plasma Produced by Fundamental (1064 nm) and Second Harmonics (532 nm) of an Nd: YAG Laser 2012

Muhammad Hanif M. Salik M. A. Baig

Journal of Modern Physics, Volume 3, No 10A

Impact Factor: 0

DOI: http://dx.doi.org/10.4236/jmp.2012.330203

Quantitative studies of copper plasma using laser induced breakdown spectroscopy 2011

Muhammad Hanif M. Salik M.A. Baig

Optics and Lasers in Engineering, Volume: 49 Issue: 12 Pages: 1456-1461

Impact Factor: 1.838 | **Quartile:** 2 | **Citations:** 60

DOI: 10.1016/j.optlaseng.2011.06.013

Plasma Diagnostic Study of Alumina (Al2O3) Generated by the Fundamental and Second Harmonics of a Nd:YAG Laser 2011

M. Salik Muhammad Hanif M. A. Baig

IEEE Transactions on Plasma Science, Volume: 39 Issue: 9 Pages: 1861-1867

Impact Factor: 1.174 | **Quartile:** 3 | **Citations:** 17

DOI: 10.1109/TPS.2011.2159852

Spectroscopic Studies of the Laser Produced Lead Plasma 2011

Muhammad Hanif M. Salik M. A. BAIG

Plasma Science and Technology, Volume: 13, Issue: 2, Pages: 129-134

Impact Factor: 0.407 | **Quartile:** 4 | **Citations:** 22

DOI: 10.1088/1009-0630/13/2/01

Laser-Optogalvanic Studies of the 4p5 ns and nd Autoionizing Resonances in Krypton 2008

M.A baig Muhammad Hanif Muhammad Aslam

Journal of Physics B-Atomic Molecular and Optical Physics, Volume: 41 Issue: 3 Article Number: 035004

Impact Factor: 2.089 | **Quartile:** 1 | **Citations:** 3

DOI: 10.1088/0953-4075/41/3/035004

Laser Optogalvanic observations and MQDT analysis of mp(5)nd J = 3 autoionizing resonances in Ar, Kr and Xe 2006

M A Baig Muhammad Hanif M Aslam S A Bhatti

Journal of Physics B-Atomic Molecular and Optical Physics, Volume: 39 Issue: 20 Pages: 4221-4229

Impact Factor: 2.024 | **Quartile:** 1 | **Citations:** 8

DOI: 10.1088/0953-4075/39/20/019

Laser Optogalvanic Measurements and line-shape analysis of the 5p5 7p and 5p5 4-5f Autoionizing Resonances in Xenon 2005

Muhammad Hanif M Aslam M Riaz S A Bhatti M A Baig

Journal of Physics B, Atomic, Molecular and Optical Physics, Volume: 38 Issue: 2 Pages: S65-S75 Special Issue: SI

Impact Factor: 1.913 | **Quartile:** 2 | **Citations:** 14

DOI: 10.1088/0953-4075/38/2/005

Experimental and Theoretical Investigation of Odd 5p5 ? nl Autoionizing Resonances in Xenon Atoms; Energy Dependence of the Reduced Width 2004

Muhammad Hanif M Aslam Raheel Ali S A Bhatti M A Baig D Klar M-W Ruf I D Petrov V L Sukhorukov H Hotop

Journal of Physics B: Atomic, Molecular and Optical Physics, Volume: 37 Issue: 10 Pages: 1987-2009

Impact Factor: 1.761 | **Quartile:** 2 | **Citations:** 19

DOI: 10.1088/0953-4075/37/10/001

Laser optogalvanic spectroscopy of 5p5nf J = 1-5 even-parity Rydberg levels of xenon 2000

Raheel Ali Ali Nadeem M Riaz S A Bhatti M A Baig M Aslam Muhammad Hanif

Journal of Physics B: Atomic, Molecular and Optical Physics, Volume 33

Impact Factor: 2.332 | **Quartile:** 1

DOI: 10.1017/S0263034614000020

High-resolution photoabsorption spectrum of copper in the 3d-subshell excitation region 1997

M A Baig S A Bhatti J Hormes Muhammad Hanif

Journal of physics B-atomic Molecular and optical physics, Volume: 30 Issue: 23 Pages: 5381-5399

Impact Factor: 2.442 | **Quartile:** 1 | **Citations:** 6

DOI: 10.1088/0953-4075/30/23/007

Level structure of the 3 d 9 4s6p, 3 d 9 4s4f, 4 d 9 5s7p, and 4 d 9 4s4f configurations in copper and silver 1992

M. Aslam Baig A. Rashid W. Dussa Ishaq Ahmad J. Hormes Muhammad Hanif

Physical Review A , Volume 45, No. 3, Pages 2108-2111

Impact Factor: N/A | **Citations:** 6

DOI: 10.1103/PhysRevA.45.2108

Conference Proceedings

Laser Spectroscopic Characterization of Corundum Crystal Plasma 2019

Muhammad Hanif

46th IOP Plasma Physics Conference, res.country(231,)

Citations: N/A

DOI: http://plasma2019.iopconfs.org/IOP/media/uploaded/EVIOP/event_1250/Plasma_2019_Final_Programme.pdf

SPECTROSCOPIC STUDIES OF INDIUM PLASMA PRODUCED BY FUNDAMENTAL (1,064 nm) AND SECOND (532 nm) HARMONICS OF AN Nd:YAG LASER 2018

Muhammad Hanif M. Salik M. A. Baig

2nd Asia-Pacific Conference on Plasma Physics, res.country(113,)

Citations: N/A

DOI: 10.1007/s10946-018-9687-3

Spectroscopic Studies of Silicon Plasma Produced by an Nd: YAG Laser 2017

Muhammad Hanif

18th International Conference on Laser Aided Plasma Diagnostics (LAPD), res.country(56,)

Citations: N/A

DOI: 10.1007/s12633-017-9573-6