Shahid Iqbal

Professor

School of Natural Sciences

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About

Dr. Shahid Iqbal is working as Professor in the School of Natural Sciences. Dr. Shahid Iqbal has a PhD in Quantum Optics. Dr. Shahid Iqbal has published 30 research articles & conference papers having a citation count of 293, carried out 3 projects and filed 0 intellectual property.

Qualifications

PhD in Quantum Optics Quaid-i-Azam University , Pakistan. (Duplicate)	2005 - 2011
MPhil in Electronics Quaid-i-Azam University , Pakistan	2004 - 2005
MSc in Physics Government College University Lahore , Pakistan	2001 - 2003
BSc in Physics, Chemistry, Mathematics University of the Punjab , Pakistan	1999 - 2001
Experience	
Professor School of Natural Sciences	2023- Present
Professor School of Natural Sciences	2023 - 2023
Professor School of Natural Sciences	2022 - 2023
Associate Professor School of Natural Sciences	2018 - 2022
Assistant Professor School of Natural Sciences	2015 - 2018
Assistant Professor School of Natural Sciences	2012 - 2015
Assistant Professor School of Natural Sciences	2012 - 2012
Assistant Professor GC University Lahore , Lower Mall, Lahore	2009 - 2012

Awards

Best Researcher Award

SNS Best researcher Award 2017

Research Projects

National Projects	
Engineering Entanglement of Continous-Variable Quantum States via Passive Optical Devices Funding Agency: COMSTECH-TWAS (Italy) Amount: PKR 264,683.00 Status: Completed	2016
Status: Completed Entenglement Assisted Quantum Walks of Compasite Research	2022
Entanglement Assisted Quantum Walks of Composite Bosons Funding Agency: HEC	2022
Amount: PKR 8,081,000.00	
Status: Approved_inprocess	
Entanglement and Interference of Composite Particles Funding Agency: HEC	2018
Amount: PKR 2,790,000.00	
Status: Completed	
International Projects	
Research Articles	
Quantifying Nonclassicality of su(1, 1) Squeezed States by Quantum Fisher Information Sunia Javed Shahid Iqbal	2024
Journal of Russian Laser Physics, Volume 45, Number 3, Page 258-267	
Impact Factor: 0.700 Quartile: 4 Citations: 1 DOI: DOI 10.1007/s10946-024-10210-9	
Tailoring radiation pressure on infinite slab using pair of non-collinear plane waves	2023
Rfaqat Ali R. S. Dutra Shahid Iqbal Optical Materials, Volume 138, Article Number 113639	
Impact Factor: 3.9 Quartile: 2 Citations: 2	
DOI: https://doi.org/10.1016/j.optmat.2023.113639	
Quantum carpets: efficiently probing fractional revivals in position-dependent mass systems	2023
Tooba Bibi Sunia Javed Shahid Iqbal Communications in Theoretical Physics, Volume:75, Issue:1, Article ID:015102	
Impact Factor: 3.1 Quartile: 2 Citations: 2	
DOI: 10.1088/1572-9494/ac9f0d	
Engineering nonclassical SU(1,1) coherent states of light by multiphoton excitation	2022
Sunia Javed Hadiah Bint Monir Naila Amir Shahid Iqbal Laser Physics , Volume 32, Issue 11, Article Number 115201	
Impact Factor: 1.380 Quartile: 4 Citations: 2	
DOI: 10.1088/1555-6611/ac92dd	
Information entropy, fractional revivals and Schrödinger equation with position-dependent mass	2022
Shahid Iqbal Physica Scripta, Volume 97, Number 1, Article Number 015001	
Impact Factor: 2.487 Quartile: 2 Citations: 3	
DOI: https://doi.org/10.1088/1402-4896/ac4633	
Quantum Dynamical Recurrences in Position-Dependent Mass Systems	2022
Shahid Iqbal Journal of Russian Laser Physics, Volume 43, Pages 96-103	
Impact Factor: 0.607 Quartile: 4 Citations: 3	
DOI: https://doi.org/10.1007/s10946-022-10027-4	
Dynamical Interference of Shannon Information Entropy: Identification of Wave-Packet Fractional Revivals	2020
Shahid Iqbal	
Journal of Russian Laser Research, Volume 41(5), Pages 451–458	
Impact Factor: 0.607 Quartile: 4 Citations: 6 DOI: https://doi.org/10.1007/s10946-020-09898-2	

Coherent states of position-dependent mass trapped in an infinite square well	2020
Naila Amir Shahid Iqbal Journal of Mathematical Physics, Volume 61, Article Number 082102 Impact Factor: 1.488 Quartile: 3 Citations: 11 DOI: https://doi.org/10.1063/5.0015418	
Construction and Properties of Photon-Added su (1,1) Algebraic Squeezed States Shahid Iqbal Hadiah Bint Monir Journal of Russian Laser Research, Volume 41, Pages 1-10 Impact Factor: 0.607 Quartile: 4 Citations: 5	2020
DOI: https://doi.org/10.1007/s10946-020-09843-3 Photon-Added SU(1, 1) Coherent States and their Non-Classical Properties Hadiah Bint Monir Naila Amir Shahid Iqbal International Journal of Theoretical Physics, Volume 58, Issue 6, Pages 1776-1790	2019
Impact Factor: 1.347 Quartile: 3 Citations: 10 DOI: 10.1007/s10773-019-04071-1	0040
Quantum Dynamical Behavior of The Morse Oscillator: The Wigner Function Approach Abdul Jalal Shahid Iqbal Journal of Russian Laser Research, NULL Impact Factor: 0.777 Quartile: 4 Citations: 2 DOI: https://doi.org/10.1007/s10946-018-9750-0	2018
Coherent States of Nonlinear Oscillators with Position-Dependent Mass: Temporal Stability and Fractional Revivals Shahid Iqbal Naila Amir Communications in Theoretical Physics, Volume: 68, Issue: 2, Pages: 181-190 Impact Factor: 1.178 Quartile: 3 Citations: 17 DOI: https://doi.org/10.1088/0253-6102/68/2/181	2017
Generalized Coherent States for Position-Dependent Effective Mass Systems Naila Amir Shahid Iqbal Communications in Theoretical Physics, Volume: 66, Issue: 6, Pages: 615-620 Impact Factor: 0.989 Quartile: 3 Citations: 12 DOI: 10.1088/0253-6102/66/6/615	2016
Quantum Carpets: a Probe to Identify Wave-Packet Fractional Revivals Iqra Yousaf Shahid Iqbal Journal of Russian Laser Research, JOURNAL OF RUSSIAN LASER RESEARCH Volume: 37 Issue: 4 Pages: 328-336 Impact Factor: 0.546 Quartile: 4 Citations: 10 DOI: 10.1007/s10946-016-9579-3	2016
Barut-Girardello Coherent States for Nonlinear Oscillator with Position-Dependent Mass Naila Amir Shahid Iqbal Communications in Theoretical Physics, Volume: 66, Issue: 1, Pages: 41-48 Impact Factor: 0.989 Quartile: 3 Citations: 20 DOI: https://doi.org/10.1088/0253-6102/66/1/041	2016
Algebraic solutions of shape-invariant position-dependent effective mass systems Naila Amir Shahid Iqbal Journal of Mathematical Physics, Volume: 57, Issue: 6, Article Number: 062105 Impact Factor: 1.077 Quartile: 3 Citations: 23 DOI: http://dx.doi.org/10.1063/1.4954283	2016
Ladder operators and associated algebra for position-dependent effective mass systems Naila Amir Shahid Iqbal EPL, Volume: 111, Issue: 2, Article Number: 20005 Impact Factor: 1.963 Quartile: 1 Citations: 15 DOI: https://doi.org/10.1209/0295-5075/111/20005	2015
Coherent states for nonlinear harmonic oscillator and some of its properties Naila Amir Shahid Iqbal Journal of Mathematical Physics, Volume: 56, Issue: 6, Article Number: 062108 Impact Factor: 1.234 Quartile: 2	2015

Impact Factor: $1.468 \mid$ Quartile: $2 \mid$ Citations: 25

DOI: 10.1016/j.physleta.2006.03.046

Exact solutions of schrodinger equation for the position-dependent effective mass harmonic oscillator Naila Amir Shahid Iqbal	2014
Communications in Theoretical Physics, Volume: 62, Issue: 6, Pages: 790-794	
Impact Factor: 0.893 Quartile: 3 Citations: 30 DOI: https://doi.org/10.1088/0253-6102/62/6/03	
Comment on "Coherent states for the nonlinear harmonic oscillator" [J. Math. Phys.53, 062104 (2012)]	2014
Naila Amir Shahid Iqbal	
Journal of Mathematical Physics, Volume: 55, Issue: 11, Article Number: 114101 Impact Factor: 1.243 Quartile: 2 Citations: 11	
DOI: https://doi.org/10.1063/1.4901559	
Electronic excitation by short x-ray pulses: from quantum beats to wave packet revivals	2014
Paula Reviere Shahid Iqbal JM Rost	
Journal of Physics B - Atomic, Molecular and Optical Physics, Volume: 47, Issue: 12, Special Issue: SI, Article Number: 124039	
Impact Factor: 1.975 Quartile: 2 Citations: 11 DOI: https://doi.org/10.1088/0953-4075/47/12/124039	
Comment on "Stringy" coherent states inspired by generalized uncertainty principle'[Phys. Lett. B 711	2013
(5)(2012) 423-427]	
Shahid Iqbal Physics Letters B , Volume 725, Issues 4–5, Pages 487-488	
Impact Factor: 6.019 Quartile: 1 Citations: 2	
DOI: https://doi.org/10.1016/j.physletb.2013.07.048	
Gazeau-Klauder coherent states of the triangular-well potential	2013
Shahid Iqbal Farhan Saif	
Journal of Russian Laser Research, Volume: 34, Issue: 1, Pages: 77-86 Impact Factor: 0.606 Quartile: 4 Citations: 17	
DOI: https://doi.org/10.1007/s10946-013-9327-x	
Comment on 'Generalized Heisenberg algebra coherent states for power-law potentials'[Phys. Lett. A	2012
375 (3)(2011) 298]	
Farhan Saif Shahid Iqbal Physics Letters A , Volume 376, Issue 17, Pages 1531-1533	
Impact Factor: 1.766 Quartile: 2 Citations: 10	
DOI: https://doi.org/10.1016/j.physleta.2012.01.035	
Generalized coherent states and their statistical characteristics in power-law potentials	2011
Shahid Iqbal Farhan Saif Journal of Mathematical Physics, Volume: 52, Issue: 8, Article Number: 082105	
Impact Factor: 1.291 Quartile: 2 Citations: 18	
DOI: https://doi.org/10.1063/1.3626936	
Space-time dynamics of Gazeau-Klauder coherent states in power-law potentials	2010
Farhan Saif Paula Reviere Shahid Iqbal	
International Journal of Theoretical Physics, Volume: 49, Issue: 10, Pages: 2540-2557 Impact Factor: 0.67 Quartile: 3 Citations: 18	
DOI: https://doi.org/10.1007/s10773-010-0446-7	
Quantum computing with particle in a driven square well	2008
Shahid Iqbal Farhan Saif	
Journal of Russian Laser Research, Volume: 29, Issue: 5, Pages: 466-473 Impact Factor: 0.628 Quartile: 3 Citations: 7	
DOI: https://doi.org/10.1007/s10946-008-9036-z	
Quantum recurrences in driven power-law potentials	2006
Qurat-ul-Ann Shahid Iqbal Farhan Saif	
Physics Letters A, Volume 356, Issue 3, Pages 231-236	

Conference Proceedings

Conference Proceedings	
On the Algebraic Solutions of Quantum Systems with Position-Dependent Effective Mass Naila Amir Shahid Iqbal 14th Regional Conference on Mathematical Physics Quaid-i-Azam University, Islamabad, res.country(177,)	2015
Citations: N/A DOI: https://www.researchgate.net/publication/324158054_On_the_Algebraic_Solutions_of_Quantum_Systems_with_Position-Dependent_	Effective Mass
	-
Atomic quantum revivals produced by ultrashort laser pulses: the effect of energy discretization Paula Reviere Shahid Iqbal JM Rost	2009
XXVI International Conference on Photonic, Electronic and Atomic Collisions, res.country(233,)	
Citations: N/A DOI: 10.1088/1742-6596/194/2/022015	
Editorial Activities	
Journal of Physics G	2024
Reviewed Papers for Journals	
Impact Factor: 3.4	
Nonlinear Dynamics	2024
Reviewed Papers for Journals Impact Factor: 5.2	
	0004
Journal of Optics Reviewed Papers for Journals	2024
Impact Factor: 2.0	
Physica Scripta	2024
Reviewed Papers for Journals	
Impact Factor: 2.9	
Physica Scripta	2024
Reviewed Papers for Journals	
Impact Factor: 2.9	
Physica Scripta	2023
Reviewed Papers for Journals Impact Factor: 3.081	
·	2022
Physica Scripta Reviewed Papers for Journals	2023
Impact Factor: 3.081	
Quantum Information Processing	2023
Reviewed Papers for Journals	
Impact Factor: 1.965	
Physica Scripta	2023
Reviewed Papers for Journals	
Impact Factor: 3.081	
Quantum Information Processing Reviewed Papers for Journals	2022
Impact Factor: 1.965	
Journal of Physics Communications	2022
Reviewed Papers for Journals	2022
Impact Factor: N/A	
Journal of Physics A	2022
Reviewed Papers for Journals	
Impact Factor: 2.331	
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Quantum Information Processing	2022

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Reviewed Papers for Journals Impact Factor: 2.11	2020

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Reviewed Papers for Journals Impact Factor: 2.222	2019
Reviewed Papers for Journals Impact Factor: 1.242	2019
Reviewed Papers for Journals Impact Factor: 1.453	2019
Reviewed Papers for Journals Impact Factor: 1.963	2018
Reviewed Papers for Journals Impact Factor: 1.963	2017