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Education Information

Doctorate, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, Turkey 1983 - 1990

Post Graduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, Turkey 1980 - 1983

Under Graduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, Turkey 1975 - 1980

Research Areas

Mathematics, Physics

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2005 - Continues

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1997 - 2005

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1992 - 2002

Research Assistant PhD, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1990 - 1992

Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1980 - 1990

Advising Theses

KARASU E. A. , Suggestion of a new model for newtonian thermal analysis of solidification, Doctorate, K.CAN(Student), 2013

KARASU E. A. , Some properties and conserved quantities of the short pulse equation, Post Graduate, K.CAN(Student), 2008

KARASU E. A. , Prolongation structures Bäcklund transformations and painlevé analysis of nonlinear evolution equations, Post Graduate, İ.YURDUŞEN(Student), 2004

KARASU E. A. , Painleve integrability test, Post Graduate, T.KILIÇ(Student), 2002

KARASU E. A. , Use of lie symmetries in solving nonlinear ordinary differential equations, Post Graduate, H.YILDIRIM(Student), 2001

KARASU E. A. , Integrable systems of classical mechanics and lax tensors, Post Graduate, Ö.KAYA(Student), 2000

KARASU E. A. , The Prolongation structures of nonlinear evolution equations, Post Graduate, İ.YURDUŞEN(Student), 1999

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **A new integrable generalization of the Korteweg-de Vries equation**
Karasu-Kalkanli A., KARASU A., Sakovich A., Sakovich S., TURHAN R.
JOURNAL OF MATHEMATICAL PHYSICS, vol.49, 2008 (Journal Indexed in SCI)
- **Singularity analysis of spherical Kadomtsev-Petviashvili equation**
Karasu-Kalkanli A., Sakovich S.
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN, vol.74, pp.505-507, 2005 (Journal Indexed in SCI)
- **A strange recursion operator for a new integrable system of coupled Korteweg-de Vries equations**
Karasu A., Karasu A., Sakovich S.
ACTA APPLICANDAE MATHEMATICAE, vol.83, pp.85-94, 2004 (Journal Indexed in SCI)
- **Integrability of a nonautonomous coupled KdV system**
Karasu A., Kilic T.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, vol.15, pp.609-617, 2004 (Journal Indexed in SCI)
- **The Lie algebra $sl(2, \mathbb{R})$ and so-called Kepler-Ermakov systems**
Leach P., Karasu A.
JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS, vol.11, pp.269-275, 2004 (Journal Indexed in SCI)
- **Integrability of Kersten-Krasil'shchik coupled KdV-mKdV equations: singularity analysis and Lax pair**
Kalkanli A., Sakovich S., Yurdusen I.
JOURNAL OF MATHEMATICAL PHYSICS, vol.44, pp.1703-1708, 2003 (Journal Indexed in SCI)
- **On the Lie symmetries of Kepler-Ermakov systems**
Karasu A., Yildirim H.
JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS, vol.9, pp.475-482, 2002 (Journal Indexed in SCI)
- **Prolongation algebra and Backlund transformations of Drinfeld-Sokolov system of equations**
Karasu A., Yurdusen I.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.16, pp.4261-4269, 2001 (Journal Indexed in SCI)
- **On soliton solutions of nonlinear sigma models of symmetric spaces**
Karasu A.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.16, pp.4409-4427, 2001 (Journal Indexed in SCI)
- **Backlund transformation and special solutions for the Drinfeld-Sokolov-Satsuma-Hirota system of coupled equations**
Karasu A., Sakovich S.
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL, vol.34, pp.7355-7358, 2001 (Journal Indexed in SCI)
- **Integrability of a generalized Ito system: The Painleve test**
Karasu-Kalkanli A., Karasu A., Sakovich S.
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN, vol.70, pp.1165-1166, 2001 (Journal Indexed in SCI)
- **About geometrization of the dynamics**
Baleanu D., Karasu A., Makhaldiani N.
CZECHOSLOVAK JOURNAL OF PHYSICS, vol.50, pp.17-22, 2000 (Journal Indexed in SCI)
- **Lax tensors, killing tensors and geometric duality**
Baleanu D., Karasu A.
MODERN PHYSICS LETTERS A, vol.14, pp.2587-2594, 1999 (Journal Indexed in SCI)
- **The Burgers-Hlavaty equation**
Karasu A.
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA B-GENERAL PHYSICS RELATIVITY ASTRONOMY AND MATHEMATICAL PHYSICS AND METHODS, vol.112, pp.1373-1380, 1997 (Journal Indexed in SCI)
- **Painleve classification of coupled Korteweg-de Vries systems**
KARASU E. A.
JOURNAL OF MATHEMATICAL PHYSICS, vol.38, pp.3616-3622, 1997 (Journal Indexed in SCI)
- **COLLIDING ABELIAN GAUGE PLANE-WAVES**

GURSES M., KALKANLI A.

CLASSICAL AND QUANTUM GRAVITY, vol.6, 1989 (Journal Indexed in SCI)

● **PROLONGATION STRUCTURE AND PAINLEVE PROPERTY OF THE GURSES-NUTKU EQUATIONS**
KALKANLI A.

INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.26, pp.1085-1092, 1987 (Journal Indexed in SCI)

Citations

Total Citations (WOS):207

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