

List of publications - Delia Ionescu-Kruse

Book chapters

1. Ionescu D., *Gravitational Fields in the Relativistic Theory of Gravitation*.
Current Topics in Continuum Mechanics, Vol. III, Editor Lazar Dragos,
Editura Academiei Române, București 2006, 115–150, ISBN: 973-27-1348-8.

Journal articles

1. Ionescu-Kruse D., Matic A., *Small-amplitude equatorial water waves with constant vorticity: dispersion relations and particle trajectories*, **Discrete and Continuous Dynamical Systems - Series A**, accepted for publication; Impact Factor=1.005.
2. Ionescu-Kruse D., *A new two-component system modelling shallow-water waves*, **Quarterly of Applied Mathematics** (2013), in press; IF=0.728.
3. Ionescu-Kruse D., *On the particle paths and the stagnation points in small-amplitude deep-water waves*, **Journal of Mathematical Fluid Mechanics** **15** (2013), 41–54; IF=1.415.
4. Ionescu-Kruse D., *Variational derivation of two-component Camassa-Holm shallow water system*, **Applicable Analysis** **92** (2013), 1241–1253; IF=0.710.
5. Ionescu-Kruse D., *Variational derivation of the Green-Naghdi shallow-water equations*, **Journal of Nonlinear Mathematical Physics** **19** (2012), art. no.: 1240001; IF=0.569.
6. Ionescu-Kruse D., *Elliptic and hyperelliptic functions describing the particle motion beneath small-amplitude water waves with constant vorticity*, **Communications on Pure and Applied Analysis** **11** (2012), 1475–1496; IF=0.589.
7. Ionescu-Kruse D., *Peakons arising as particle paths beneath small-amplitude water waves in constant vorticity flows*, **Journal of Nonlinear Mathematical Physics** **17** (2010), 415–422; IF=0.569.
8. Ionescu-Kruse D., *Small-amplitude capillary-gravity water waves: Exact solutions and particle motion beneath such waves*, **Nonlinear Analysis: Real World Applications** **11** (2010), 2989–3000; IF=2.201.
9. Ionescu-Kruse D., *Exact solutions for small-amplitude capillary-gravity water waves*, **Wave Motion** **46** (2009), 379–388; IF=1.467.
10. Ionescu-Kruse D., *Particle trajectories beneath small amplitude shallow water waves in constant vorticity flows*, **Nonlinear Analysis: Theory, Methods & Applications** **71** (2009), 3779–3793; IF=1.640.

11. Ionescu-Kruse D., *Particle trajectories in linearized irrotational shallow water flows*, **Journal of Nonlinear Mathematical Physics** **15** (2008), 13–27; IF=0.569.
12. Ionescu-Kruse D., *Variational derivation of the Camassa-Holm shallow water equation with non-zero vorticity*, **Discrete and Continuous Dynamical Systems - Series A** **19** (2007), 531-543; IF=1.005.
13. Ionescu-Kruse D., *Variational derivation of the Camassa-Holm shallow water equation*, **Journal of Nonlinear Mathematical Physics** **14** (2007), 303-312; IF=0.569.
14. Ionescu-Kruse D., *Liapunov's direct method for Birkhoffian systems: Applications to electrical networks*, **Journal of Geometry and Physics** **57** (2007), 2213-2228; IF=1.055.
15. Ionescu D., Scheurle J., *Birkhoffian formulation of the dynamics of LC circuits*, **Zeitschrift für angewandte Mathematik und Physik** **58** (2007), 175–208; IF=0.938.
16. Ionescu D., *A geometric Birkhoffian formalism for nonlinear RLC networks*, **Journal of Geometry and Physics** **56** (2006), 2545–2572; IF=1.055.
17. Ionescu D., *The Gravitational Field of an Electrically Charged Mass Point and the Causality Principle in RTG*, **Theoretical and Mathematical Physics** **136** (2003), 1177–1187; IF=0.669.
18. Ionescu D., *Comparative Analysis of the Electrogravitational Kepler Problem in GRT and RTG*, **International Journal of Non-Linear Mechanics** **38** (2003), 1251–1268; IF=1.345.
19. Ionescu D., *Can the Notion of a Homogeneous Gravitational Field be Transferred from Classical Mechanics to the Relativistic Theory of Gravity?*, **Theoretical and Mathematical Physics** **130** (2002), 287–297; IF=0.669.
20. Ionescu D., Soós E., *Simultaneity and non-holonomy*, **Annals of the University of Timișoara, Mathematics and Computer Science series** **39** (2001), 277–282.
21. Ionescu D., Soós E., *Electrogravitational Field Produced by a Charged Mass Point in RTG*, **Revue Romaine de Mathématiques Pures et Appliqués** **45** (2000), 251–260.

Conference proceedings

1. Ionescu-Kruse D., *The Camassa-Holm equation modelling shallow water waves over a constant vorticity flow*, **Proceedings of the 6-th Congress of Romanian Mathematicians, Publishing House of the Romanian Academy** (2007), vol. 1, 511-519, ISBN: 978-973-27-1781-3/v.1.
2. Ionescu D., *A geometric modelling of nonlinear RLC networks*, **Proceedings in Applied Mathematics and Mechanics (PAMM)** **6** (2006), 813–814, WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim, ISSN: 1617-7061.

3. Ionescu D., *Geometric modelling of the dynamics of electrical circuits*, **Modern Trends in Geometry and Topology, Deva 5–11 September 2005**, Editors: Dorin Andrica, Paul A. Blaga, Sergiu Moroianu, Cluj University Press (2006), 215–229, ISBN: 973-610-429-X;978-973-610-429-9.
4. Ionescu D., Soós E., *Consequences of the Causality Principle in the Relativistic Theory of Gravitation*, **Proceedings of the XXIII International Workshop on High Energy Physics and Field Theory, Protvino (Russia), June 21-23 (2000)**, 180–190, ISBN: 5-88738-038-1.