Anexa nr. 3

ACADEMIA ROMÂNĂ
SCOSAAR

AVIZAT
PREŞEDINTE SCOSAAR
Acad. Bogdan C. SIMIONESCU

ÎNDEPLINIREA STANDARDELOR MINIMALE [X] DA | [] | NU

FIŞA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE conform CNATDCU

Candidat: *Ionescu-Kruse Delia-Mariela*

FIŞA DE VERIFICARE
a îndeplinirii standardelor minimale

Data: 07.04.2021

Semnătura:

Fisa de verificare a indeplinirii standardelor minimale

Delia-Mariela Ionescu-Kruse

- **S=55,6655 ≥ 5 ; S_recent =36,928≥ 2,5**

Lista de articole in reviste cu scor relativ de influenta (iunie 2017) ≥ 0.5

Nr. Crt.	Referinta bibliografica	Publicat in ultimii 7 ani	s_i (scorul relativ influenta	n_i (nr.de autori)	s_i/n_i
1.	D. Ionescu-Kruse, Analytical Atmospheric Ekman-Type Solutions with Height-Dependent Eddy Viscosities, *J. Math. Fluid Mech.* 23 (2021), Art. No. 18.	x	2,158	1	2,158
2.	D. Ionescu-Kruse, A three-dimensional autonomous nonlinear dynamical system modelling equatorial ocean flows, *J. Differential Equations* 268 (2020), 1326-1344.	x	2,596	1	2,596
3.	D. Dutykh, D. Ionescu-Kruse, Effects of vorticity on the travelling waves of some shallow water two-component systems, *Discrete Contin. Dyn. Syst. A* 39 (2019), 5521-5541	x	1,588	2	0,794
4.	J. Chu, D. Ionescu-Kruse, Y. Yang, Exact solution and instability for geophysical waves with centripetal forces at arbitrary latitude, *J. Math. Fluid Mech.* 21 (2019), Art. no. UNSP 19.	x	2,158	3	0,719
5.	J. Chu, D. Ionescu-Kruse, Y. Yang, Exact solution and instability for geophysical waves at arbitrary latitude, *Discrete Contin. Dyn. Syst. A* 39 (2019), 4399-4414.	x	1,588	3	0,529
6.	D. Ionescu-Kruse, A three-dimensional autonomous nonlinear dynamical system modelling equatorial ocean flows, *J. Differential Equations* 264 (2018), 4650-4668.	x	2,596	1	2,596
7.	D. Ionescu-Kruse, On the short-wavelength stabilities of some geophysical flows, *Philos. Trans. R. Soc. A* 376 (2018), 20170090.	x	2,694	1	2,694
8.	D. Ionescu-Kruse, C. I. Martin, Local Stability for an Exact Steady Purely Azimuthal Equatorial Flow, *J. Math. Fluid Mech.* 20 (2018), 27-34.	x	2,158	2	1,079
9.	D. Ionescu-Kruse, Local stability for an exact steady purely azimuthal flow which models the Antarctic Circumpolar Current, *J. Math. Fluid Mech.* 20 (2018), 569-579.	x	2,158	1	2,158

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10.	D. Ionescu-Kruse, Variational derivation of a geophysical Camassa-Holm type shallow water equation, *Nonlinear Analysis* 156 (2017), 286–294.	x	1,274	1	1,274
11.	D. Ionescu-Kruse, C. I. Martin, Periodic equatorial water flows from a Hamiltonian perspective, *J. Differential Equations* 262 (2017), 4451–4474.	x	2,596	2	1,298
12.	D. Ionescu-Kruse, Exact steady azimuthal edge waves in rotating fluids, *J. Math. Fluid Mech.* 19 (2017), 501-513.	x	2,158	1	2,158
13.	D. Ionescu-Kruse, Instability of Pollard's exact solution for geophysical ocean flows, *Physics of Fluids* 28 (2016), 086601.	x	2,036	1	2,036
14.	D. Dutykh, D. Ionescu-Kruse, Travelling wave solutions for some two-component shallow water models, *J Differential Equations* 261 (2016), 1099-1114.	x	2,596	2	1,298
15.	D. Ionescu-Kruse, Instability of equatorially trapped waves in stratified water, *Ann. Mat. Pura Appl.* 195 (2016), 585-599.	x	1,421	1	1,421
16.	D. Ionescu-Kruse, An exact solution for geophysical edge waves in the f-plane approximation, *Nonlinear Anal. Real World Appl.* 24 (2015), 190-195.	x	1,407	1	1,407
17.	D. Ionescu-Kruse, An exact solution for geophysical edge waves in the beta-plane approximation, *J. Math. Fluid Mech.* 17 (2015), 699-706.	x	2,158	1	2,158
18.	D. Ionescu-Kruse, Short-wavelength instabilities of edge waves in stratified water, *Discrete Contin. Dyn. Syst. A* 35 (2015), 2053-2066 .	x	1,588	1	1,588
19.	D. Ionescu-Kruse, A new two-component system modelling shallow-water waves, *Quart. Appl. Math.* 73 (2015), 331-346.	x	0,824	1	0,824
20.	D. Ionescu-Kruse, On Pollard's wave solution at the Equator, *J. Nonlinear Math. Phys.* 22 (2015), 523-530.	x	0,595	1	0,595
21.	D. Ionescu-Kruse, Instability of edge waves along a sloping beach, *J Differential Equations* 256 (2014), 3999-4012.	x	2,596	1	2,596
22.	D. Ionescu-Kruse, On the small-amplitude long waves in linear shear flows and the Camassa-Holm equation, *J. Math. Fluid Mech.* 16 (2014), 365-374.	x	2,158	1	2,158
23.	D. Ionescu-Kruse, A. Matioc, Small-amplitude equatorial water waves with constant vorticity: dispersion relations and particle trajectories,	x	1,588	2	0,794

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	Discrete Contin. Dyn. Syst. A 34 (2014), 3045-3060.				
24.	D. Ionescu-Kruse, On the particle paths and the stagnation points in small-amplitude deep-water waves, *J. Math. Fluid Mech.* 15 (2013), 41-54.		2,158	1	2,158
25.	D. Ionescu-Kruse, Variational derivation of two-component Camassa-Holm shallow water system, *Appl. Anal.* 92 (2013), 1241-1253.		0,815	1	0,815
26.	D. Ionescu-Kruse, Variational derivation of the Green-Naghdi shallow-water equations, *J. Nonlinear Math. Phys.* 19 (2012), 1240001.		0,595	1	0,595
27.	D. Ionescu-Kruse, Elliptic and hyperelliptic functions describing the particle motion beneath small-amplitude water waves with constant vorticity, *Comm. Pure Appl. Anal.* 11 (2012), 1475-1496.		1,170	1	1,170
28.	D. Ionescu-Kruse, Peakons arising as particle paths beneath small-amplitude water waves in constant vorticity flows, *J. Nonlinear Math. Phys.* 17 (2010), 415-422.		0,595	1	0,595
29.	D. Ionescu-Kruse, Small-amplitude capillary-gravity water waves: Exact solutions and particle motion beneath such waves, *Nonlinear Anal. Real World Appl.* 11 (2010), 2989-3000.		1,407	1	1,407
30.	D. Ionescu-Kruse, Exact solutions for small-amplitude capillary-gravity water waves, *Wave Motion* 46 (2009), 379-388.		1,837	1	1,837
31.	D. Ionescu-Kruse, Particle trajectories beneath small amplitude shallow water waves in constant vorticity flows, *Nonlinear Analysis* 71 (2009), 3779-3793.		1,274	1	1,274
32.	D. Ionescu-Kruse, Particle trajectories in linearized irrotational shallow water flows, *J. Nonlinear Math. Phys.* 15 (2008), 13-27.		0,595	1	0,595
33.	D. Ionescu-Kruse, Variational derivation of the Camassa-Holm shallow water equation with non-zero vorticity, *Discrete Contin. Dyn. Syst. A* 19 (2007), 531-543.		1,588	1	1,588
34.	D. Ionescu-Kruse, Liapunov's direct method for Birkhoffian systems: Applications to electrical networks, *J. Geom. Phys.* 57 (2007), 2213-2228.		1,004	1	1,004
35.	D. Ionescu-Kruse, Variational derivation of the Camassa-Holm shallow water equation, *J. Nonlinear Math. Phys.* 14 (2007), 303-312.		0,595	1	0,595
36.	D. Ionescu, J. Scheurle, Birkhoffian formulation of the dynamics of LC circuits, *Z. Angew. Math. Phys.* 58 (2007), 175-208.		1,317	2	0,6585

37.	D. Ionescu, A geometric Birkhoffian formalism for nonlinear RLC networks, *J. Geom. Phys.* 56 (2006), 2545-2572.		1,004	1	1,004
38.	D. Ionescu, The Gravitational Field of an Electrically Charged Mass Point and the Causality Principle in RTG, *Theoret. and Math. Phys.* 136 (2003), 1177-1187.		1,008	1	1,008
39.	D. Ionescu, Comparative Analysis of the Electrogravitational Kepler Problem in GRT and RTG, *Internat. J. Non-Linear Mech.* 38 (2003), 1251-1268.		1,426	1	1,426
40.	D. Ionescu, Can the Notion of a Homogeneous Gravitational Field be Transferred from Classical Mechanics to the Relativistic Theory of Gravity?, *Theoret. and Math. Phys.* 130 (2002), 287-297.		1,008	1	1,008
Total		**S=** **S_recent=**		**55,6655** **36,928**	

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2. Chu J., Yang Y., A cylindrical coordinates approach to constant vorticity geophysical waves with centripetal forces at arbitrary latitude, **Journal of Differential Equations 279** (2021). 46–62; SRI=2.596.
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3. Su D., Gao H., Exact solution and instability for geophysical waves in modified equatorial β-plane approximation with and without centripetal forces, **European Journal of Mechanics-B/Fluids 87** (2021), 47–60; SRI=1.584.
   Cited: Ionescu-Kruse D., *An exact solution for geophysical edge waves in the β-plane approximation*, **Journal of Mathematical Fluid Mechanics 17** (2015), 699–706.

4. Martin C. I., Some Explicit Solutions to the Three-Dimensional Nonlinear Water Wave Problem, **Journal of Mathematical Fluid Mechanics 23** (2021), 1–8; SRI=2.158.
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5. Martin C. I., Geophysical water flows with constant vorticity and centripetal terms, **Annali di Matematica Pura ed Applicata 200** (2021), 101–116; SRI=1.421
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8. Wang J., Feckan M., Wen Q., O'Regan D., Existence and uniqueness results for modeling jet flow of the antarctic circumpolar current, **Monatshefte für Mathematik 194** (2021), 601–621; SRI=0.880.
Cited: Ionescu-Kruse D., *Variational derivation of the Camassa-Holm shallow water equation.* **Journal of Nonlinear Mathematical Physics 14** (2007). 303-312.

9. Fan L., Gao H., On three-dimensional geophysical capillary-gravity water flows with constant vorticity, **Annali di Matematica Pura ed Applicata 200** (2021), 711-720; SRI=1.421.
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11. Martin C. I., Azimuthal equatorial flows in spherical coordinates with discontinuous stratification, **Physics of Fluids 33** (2021), 026602; SRI=2.036.
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12. Henry D., Lyons T., Pollard waves with underlying currents. **Proceedings of the American Mathematical Society 149** (2021), 1175–1188; SRI=1.213.
Cited: Chu J., Ionescu-Kruse D., Yang Y., *Exact solution and instability for geophysical waves at arbitrary latitude*, **Discrete and Continuous Dynamical Systems 39** (2019), 4399-4414.

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16. Henry D., Lyons T., Pollard waves with underlying currents. **Proceedings of the American Mathematical Society 149** (2021), 1175–1188; SRI=1.213.
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17. Henry D., Lyons T., Pollard waves with underlying currents. **Proceedings of the American Mathematical Society 149** (2021), 1175–1188; SRI=1.213.
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19. Su D., Gao H., Exact solution and instability for geophysical waves in modified equatorial β-plane approximation with and without centripetal forces, **European Journal of Mechanics-B/Fluids 87** (2021), 47–60; SRI=1.584.
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21. Roberti L., The Ekman spiral for piecewise-constant eddy viscosity, **Applicable Analysis** (2021), doi: 10.1080/00036811.2021.1896709; SRI=0.815.
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23. Chu J., Wang L. J., Analyticity of rotational traveling gravity two-layer waves, **Studies in Applied Mathematics** (2021), doi.org/10.1111/sapm.12358; SRI=1.366.
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25. Henry D., Lyons T., Pollard waves with underlying currents. **Proceedings of the American Mathematical Society 149** (2021), 1175–1188; SRI=1.213.
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32. Martin C. I., Some Explicit Solutions to the Three-Dimensional Nonlinear Water Wave Problem, **Journal of Mathematical Fluid Mechanics 23** (2021), 1–8; SRI=2.158.
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33. Henry D., Lyons T., Pollard waves with underlying currents. **Proceedings of the American Mathematical Society 149** (2021), 1175–1188; SRI=1.213.
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Cited: Ionescu-Kruse D., *Exponential profiles producing genuine three-dimensional nonlinear flows relevant for equatorial ocean dynamics*. **Journal of Differential Equations 268** (2020), 1326–1344.

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Cited: Dutykh D., Ionescu-Kruse D., *Travelling wave solutions for some two-component shallow water models*, **Journal of Differential Equations 261** (2016), 1099–1114.

48. Li J., Chen G., Song J., Completing the Study of Traveling Wave Solutions for Three Two-Component Shallow Water Wave Models, **International Journal of Bifurcation and Chaos 30** (2020), art no. 2050036; SRI=0.704.
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