

Fisa de autoevaluare (in conformitate cu prevederile fisei de evaluare generala a standardelor universitatii)

EUGEN VARVARUCA

I. Activitatea de cercetare (70%)

I.1 Articole stiintifice publicate in extenso in reviste cotate Web of Science cu factor de impact

Nr.	Articol, referinta bibliografica	Factorul de Impact (FI) al revistei	Numarul de autori (N)	Punctaj (60*FI+25)/ N
1	Global bifurcation of steady gravity water waves with critical layers By: Constantin, Adrian; Strauss, Walter; Varvaruca, Eugen ACTA MATHEMATICA Volume: 217 Issue: 2 Pages: 195-262 Published: DEC 2016	3.045	3	69.23
2	Singularities in Axisymmetric Free Boundaries for ElectroHydroDynamic Equations By: Garcia, Mariana Smit Vega; Varvaruca, Eugen; Weiss, Georg S. ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS Volume: 222 Issue: 2 Pages: 573-601 Published: NOV 2016	2.186	3	52.05

3	Singularities of Steady Axisymmetric Free Surface Flows with Gravity By: Varvaruca, Eugen; Weiss, Georg S. COMMUNICATIONS ON PURE AND APPLIED MATHEMATICS Volume: 67 Issue: 8 Pages: 1263-1306 Published: AUG 2014	3.138	2	106.64
4	The Stokes conjecture for waves with vorticity By: Varvaruca, Eugen; Weiss, Georg S. ANNALES DE L INSTITUT HENRI POINCARÉ-ANALYSE NON LINEAIRE Volume: 29 Issue: 6 Pages: 861-885 Published: NOV-DEC 2012	2.201	2	78.53
5	Equivalence of weak formulations of the steady water waves equations By: Varvaruca, Eugen; Zarnescu, Arghir PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A- MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 370 Issue: 1964 Special Issue: SI Pages: 1703-1719 Published: APR 13 2012	3.093	2	105.29
6	A geometric approach to generalized Stokes conjectures By: Varvaruca, Eugen; Weiss, Georg S. ACTA MATHEMATICA Volume: 206 Issue: 2 Pages: 363-403 Published: JUN 2011	3.045	2	103.85
7	Steady Periodic Water Waves with Constant Vorticity: Regularity and Local Bifurcation By: Constantin, Adrian; Varvaruca, Eugen ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS Volume: 199 Issue: 1 Pages: 33-67 Published: JAN 2011	2.186	2	78.08

8	On the existence of extreme waves and the Stokes conjecture with vorticity By: Varvaruca, Eugen JOURNAL OF DIFFERENTIAL EQUATIONS Volume: 246 Issue: 10 Pages: 4043-4076 Published: MAY 15 2009	1.938	1	141.28
9	Bernoulli free-boundary problems in strip-like domains and a property of permanent waves on water of finite depth By: Varvaruca, Eugen PROCEEDINGS OF THE ROYAL SOCIETY OF EDINBURGH SECTION A-MATHEMATICS Volume: 138 Pages: 1345-1362 Published: 2008	1.045	1	87.7
10	On some properties of traveling water waves with vorticity By: Varvaruca, Eugen SIAM JOURNAL ON MATHEMATICAL ANALYSIS Volume: 39 Issue: 5 Pages: 1686-1692 Published: 2008	1.334	1	105.04
11	Some geometric and analytic properties of solutions of Bernoulli free-boundary problems By: Varvaruca, Eugen INTERFACES AND FREE BOUNDARIES Volume: 9 Issue: 3 Pages: 367-381 Published: 2007	0.675	1	65.5
12	Singularities of Bernoulli free boundaries By: Varvaruca, Eugen COMMUNICATIONS IN PARTIAL DIFFERENTIAL EQUATIONS Volume: 31 Issue: 10 Pages: 1451-1477 Published: OCT 2006	1.239	1	99.34

13	Exact rates of convergence as $t \rightarrow +\infty$ for solutions of nonlinear evolution equations By: Varvaruca, E JOURNAL OF EVOLUTION EQUATIONS Volume: 4 Issue: 4 Pages: 543-565 Published: 2004	1.181	1	95.86
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Punctaj Criteriu I.1: 1188.39

I.3. Articole stiintifice publicate in extenso in reviste indexate BDI

E. Varvaruca, *Backward uniqueness and unique continuation for evolution inequalities governed by subdifferentials*, Nonlinear Funct. Anal. Appl. 7 (2002), 269-284

Punctaj Criteriu I.3: 15

I.12. Citari si recenzii ale lucrarilor stiintifice (punctaj $P = (20 \cdot \text{factor impact FI} + 10) / \text{numar autori}$)

Citari lucrarea 1.:

LARGE AMPLITUDE STATIONARY SOLUTIONS OF THE MORROW MODEL OF GAS IONIZATION By: Strauss, Walter A.; Suzuki, Masahiro KINETIC AND RELATED MODELS Volume: 12 Issue: 6 Pages: 1297-1312 Published: DEC 2019 FI:1.38 P: 12.53

Stokes waves with constant vorticity: folds, gaps and fluid bubbles By: Dyachenko, Sergey A.; Hur, Vera Mikyoung JOURNAL OF FLUID MECHANICS Volume: 878 Pages: 502-521 Article Number: PII S0022112019006347 Published: NOV 10 2019 FI:3.137 P:24.24

MODIFIED BABENKO'S EQUATION FOR PERIODIC GRAVITY WAVES ON WATER OF FINITE DEPTH By: Dinvay, E.; Kuznetsov, N. QUARTERLY JOURNAL OF MECHANICS AND APPLIED MATHEMATICS Volume: 72 Issue: 4 Pages: 415-428 Published: NOV 2019 **FI:0.8 P:8.66**

DISPERSION RELATIONS FOR STEADY PERIODIC WATER WAVES OF FIXED MEAN-DEPTH WITH TWO ROTATIONAL LAYERS By: Martin, Calin Iulian; Rodriguez-Sanjurjo, Adrian DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS Volume: 39 Issue: 9 Pages: 5149-5169 Published: SEP 2019 **FI:1.143 P:10.95**

Global Bifurcation of Rotating Vortex Patches By: Hassainia, Zineb; Masmoudi, Nader; Wheeler, Miles H. COMMUNICATIONS ON PURE AND APPLIED MATHEMATICS Early Access: AUG 2019 **FI:3.138 P:24.25**

Equatorial Wave-Current Interactions By: Constantin, A.; Ivanov, R. I. COMMUNICATIONS IN MATHEMATICAL PHYSICS Volume: 370 Issue: 1 Pages: 1-48 Published: AUG 2019, **FI:2.239 P:18.26**

Functional-analytic existence results for an integral equation in geophysics By: Yang, Yanjuan MONATSHEFTE FUR MATHEMATIK Volume: 189 Issue: 4 Pages: 771-780 Published: AUG 2019 **FI:0.807 P:8.71**

STUDY OF AN ELLIPTIC PARTIAL DIFFERENTIAL EQUATION MODELLING THE ANTARCTIC CIRCUMPOLAR CURRENT By: Haziot, Susanna V. DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS Volume: 39 Issue: 8 Pages: 4415-4427 Published: AUG 2019 **FI:1.143 P:10.95**

ON STRATIFIED WATER WAVES WITH CRITICAL LAYERS AND CORIOLIS FORCES By: Wheeler, Miles H. DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS Volume: 39 Issue: 8 Pages: 4747-4770 Published: AUG 2019 **FI:1.143 P:10.95**

STUDY OF A NONLINEAR BOUNDARY-VALUE PROBLEM OF GEOPHYSICAL RELEVANCE By: Marynets, Kateryna DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS Volume: 39 Issue: 8 Pages: 4771-4781 Published: AUG 2019 **FI:1.143 P:10.95**

Numerical investigations of two-dimensional irrotational water waves over finite depth with uniform current By: Chen, Lin; Basu, Biswajit APPLICABLE ANALYSIS Early Access: JUL 2019 **FI:1.076 P:10.50**

Explicit two-dimensional solutions for the ocean flow in arctic gyres By: Haziot, Susanna, V MONATSHEFTE FUR MATHEMATIK Volume: 189 Issue: 3 Pages: 429-440 Published: JUL 2019 **FI:0.807 P:8.71**

On some properties of velocity field for two dimensional rotational steady water waves By: NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 184 Pages: 17-34 Published: JUL 2019 **FI: 1.45 P:13**

Rotational waves generated by current-topography interaction By: Flamarion, Marcelo V.; Milewski, Paul A.; Nachbin, Andre STUDIES IN APPLIED MATHEMATICS Volume: 142 Issue: 4 Special Issue: SI Pages: 433-464 Published: MAY 2019 **FI: 2.419 P:19.46**

On an infinite-interval boundary-value problem in geophysics By: Chu, Jifeng MONATSHEFTE FUR MATHEMATIK Volume: 188 Issue: 4 Pages: 621-628 Published: APR 2019 **FI:0.807 P:8.71**

Dispersion relations for fixed mean-depth flows with two discontinuities in vorticity By: Kluczek, Mateusz; Martin, Calin Iulian [NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS](#) Volume: 181 Pages: 62-86 Published: APR 2019 **FI:1.45 P:13**

On a two-point boundary-value problem in geophysics By: Marynets, Kateryna [APPLICABLE ANALYSIS](#) Volume: 98 Issue: 3 Pages: 553-560 Published: FEB 17 2019 **FI:1.076 P:10.50**

The Antarctic Circumpolar Current as a shallow-water asymptotic solution of Euler's equation in spherical coordinates By: Marynets, Kateryna Conference: Conference on Mathematical Aspects of Physical Oceanography Location: Erwin Schrodinger Inst Math & Phys, Vienna, AUSTRIA Date: JAN 22-MAR 23, 2018 [DEEP-SEA RESEARCH PART II-TOPICAL STUDIES IN OCEANOGRAPHY](#) Volume: 160 Special Issue: SI Pages: 58-62 Published: FEB 2019 **FI:2.43 P:19.53**

Stokes waves with constant vorticity: I. Numerical computation By: Dyachenko, Sergey A.; Hur, Vera Mikyoung [STUDIES IN APPLIED MATHEMATICS](#) Volume: 142 Issue: 2 Pages: 162-189 Published: FEB 2019 **FI:2.419 P:19.46**

A nonlinear two-point boundary-value problem in geophysics By: Marynets, Kateryna [MONATSHEFTE FUR MATHEMATIK](#) Volume: 188 Issue: 2 Pages: 287-295 Published: FEB 2019 **FI:0.807 P:8.71**

On the dynamics of a free surface of an ideal fluid in a bounded domain in the presence of surface tension By: Dyachenko, Sergey A. [JOURNAL OF FLUID MECHANICS](#) Volume: 860 Pages: 408-418 Published: FEB 2019 **FI:3.137 P:24.24**

A COMPARISON THEOREM FOR SUPER- AND SUBSOLUTIONS OF $\Delta u + f(u)=0$ AND ITS APPLICATION TO WATER WAVES WITH VORTICITY By: Kozlov, V.; Kuznetsov, N. [ST PETERSBURG MATHEMATICAL JOURNAL](#) Volume: 30 Issue: 3 Pages: 471-483 Published: 2019 **FI:1.0 P:10**

Numerical Approximation of Water Waves Through a Deterministic Algorithm By: Amann, Dominic; Kalimeris, Konstantinos [JOURNAL OF MATHEMATICAL FLUID MECHANICS](#) Volume: 20 Issue: 4 Pages: 1815-1833 Published: DEC 2018 **FI:1.532 P:13.54**

Resonant interactions of rotational water waves in the equatorial f-plane approximation By: Basu, B.; Martin, C. I. [JOURNAL OF MATHEMATICAL PHYSICS](#) Volume: 59 Issue: 10 Article Number: 103101 Published: OCT 2018 **FI: 1.355 P: 12.36**

Non-existence of time-dependent three-dimensional gravity water flows with constant non-zero vorticity By: Martin, Calin Iulian [PHYSICS OF FLUIDS](#) Volume: 30 Issue: 10 Article Number: 107102 Published: OCT 2018 **FI:2.627 P:20.84**

[A Weighted Sturm-Liouville Problem Related to Ocean Flows](#) By: Marynets, Kateryna [JOURNAL OF MATHEMATICAL FLUID MECHANICS](#) Volume: 20 Issue: 3 Pages: 929-935 Published: SEP 2018 **FI:1.532 P:13.54**

On the Vorticity of Mesoscale Ocean Currents By: Martin, Calin Iulian [OCEANOGRAPHY](#) Volume: 31 Issue: 3 Special Issue: SI Pages: 28-35 Published: SEP 2018 **FI: 3.913 P:29.42**

[APPLYING THE STEREOGRAPHIC PROJECTION TO MODELING OF THE FLOW OF THE ANTARCTIC CIRCUMPOLAR CURRENT](#) By: Haziot, Susanna, V; Marynets, Kateryna [OCEANOGRAPHY](#) Volume: 31 Issue: 3 Special Issue: SI Pages: 68-75 Published: SEP 2018 **FI:3.913 P:29.42**

Upper bound on the slope of steady water waves with small adverse vorticity By: So, Seung Wook; Strauss, Walter A. JOURNAL OF DIFFERENTIAL EQUATIONS Volume: 264 Issue: 6 Pages: 4136-4151 Published: MAR 15 2018 **FI:1.938 P:16.25**

TWO-POINT BOUNDARY PROBLEM FOR MODELING THE JET FLOW OF THE ANTARCTIC CIRCUMPOLAR CURRENT By: Marynets, Kateryna ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS Article Number: 56 Published: FEB 28 2018 **FI:0.69 P:7.93 P:23.95**

On periodic geophysical water flows with discontinuous vorticity in the equatorial f-plane approximation By: Martin, Calin Iulian PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 376 Issue: 2111 Article Number: 20170096 Published: JAN 28 2018 **FI:3.093 P:23.95**

Wave height estimates from pressure and velocity data at an intermediate depth in the presence of uniform currents By: Basu, Biswajit PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 376 Issue: 2111 Article Number: 2017.0087 Published: JAN 28 2018 **FI:3.093 P:23.95**

New exact relations for steady irrotational two-dimensional gravity and capillary surface waves By: Clamond, Didier PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 376 Issue: 2111 Article Number: 20170220 Published: JAN 28 2018 **FI:3.093 P:23.95**

Nonlinear water waves: introduction and overview By: Constantin, A. PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 376 Issue: 2111 Article Number: 20170310 Published: JAN 28 2018 **FI:3.093 P:23.95**

Recent advances on the global regularity for irrotational water waves By: Ionescu, A. D.; Pusateri, F. PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 376 Issue: 2111 Article Number: 20170089 Published: JAN 28 2018 **FI:3.093 P:23.95**

Analytical approximation and numerical simulations for periodic travelling water waves By: Kalimeris, Konstantinos PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 376 Issue: 2111 Article Number: 20170093 Published: JAN 28 2018 **FI:3.093 P:23.95**

Existence and amplitude bounds for irrotational water waves in finite depth By: Kogelbauer, Florian PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 376 Issue: 2111 Article Number: 20170094 Published: JAN 28 2018 **FI:3.093 P:23.95**

The dynamic pressure in deep-water extreme Stokes waves By: Lyons, Tony PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 376 Issue: 2111 Article Number: 2017.0095 Published: JAN 28 2018 **FI:3.093 P:23.95**

Capturing the flow beneath water waves By: Nachbin, A.; Ribeiro-Junior, R. PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 376 Issue: 2111 Article Number: 20170098 Published: JAN 28 2018 **FI:3.093 P:23.95**

On the existence of two-dimensional irrotational water waves over finite depth with uniform current By: Basu, Biswajit APPLICABLE ANALYSIS Volume: 97 Issue: 14 Pages: 2523-2532 Published: 2018 **FI:1.076 P:10.50**

TWO-DIMENSIONAL SURFACE WAVE PROPAGATION OVER ARBITRARY RIDGE-LIKE TOPOGRAPHIES By: Andrade, David; Nachbin, Andre SIAM JOURNAL ON APPLIED MATHEMATICS Volume: 78 Issue: 5 Pages: 2465-2490 Published: 2018 **FI:1.449 P:12.99**

[Monotone solutions of a nonlinear differential equation for geophysical fluid flows](#) By: [Chu, Jifeng](#) [NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS](#) Volume: 166 Pages: 144-153 Published: JAN 2018 **FI:1.45 P:13**

[Resonant Interactions of Capillary-Gravity Water Waves](#) By: [Martin, Calin Iulian](#) [JOURNAL OF MATHEMATICAL FLUID MECHANICS](#) Volume: 19 Issue: 4 Pages: 807-817 Published: DEC 2017 **FI:1.532 P:13.54**

[On the symmetry of equatorial travelling water waves with constant vorticity and stagnation points](#) By: [Aivaliotis, Alexios](#) [NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS](#) Volume: 34 Pages: 159-171 Published: APR 2017 **FI:2.085 P:17.23**

[Pressure Transfer Functions for Interfacial Fluids Problems](#) By: [Chen, Robin Ming](#); [Hur, Vera Mikyoung](#); [Walsh, Samuel](#) [JOURNAL OF MATHEMATICAL FLUID MECHANICS](#) Volume: 19 Issue: 1 Pages: 59-76 Published: MAR 2017 **FI:1.532 P:13.54**

[Flow structure beneath rotational water waves with stagnation points](#) By: [Ribeiro, Roberto, Jr.](#); [Milewski, Paul A.](#); [Nachbin, Andre](#) [JOURNAL OF FLUID MECHANICS](#) Volume: 812 Pages: 792-814 Published: FEB 10 2017 **FI:3.137 P:24.24**

[.A HAMILTONIAN APPROACH FOR NONLINEAR ROTATIONAL CAPILLARY-GRAVITY WATER WAVES IN STRATIFIED FLOWS](#) By: [Martin, Calin Iulian](#) [DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS](#) Volume: 37 Issue: 1 Pages: 387-404 Published: JAN 2017 **FI:1.143 P:10.95**

[Bound on the Slope of Steady Water Waves with Favorable Vorticity](#) By: [Strauss, Walter A.](#); [Wheeler, Miles H.](#) [ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS](#) Volume: 222 Issue: 3 Pages: 1555-1580 Published: DEC 2016 **FI:2.186 P:17.90**

[Hamiltonian Formulation for Wave-Current Interactions in Stratified Rotational Flows](#) By: [Constantin, A.](#); [Ivanov, R. I.](#); [Martin, C. -I.](#) [ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS](#) Volume: 221 Issue: 3 Pages: 1417-1447 Published: SEP 2016 **FI: 2.186 P:17.90**

[Hamiltonian structure for rotational capillary waves in stratified flows](#) By: [Martin, Calin Iulian](#) [JOURNAL OF DIFFERENTIAL EQUATIONS](#) Volume: 261 Issue: 1 Pages: 373-395 Published: JUL 5 2016 **FI:1.938 P:16.25**

[Exact Travelling Periodic Water Waves in Two-Dimensional Irrotational Flows](#) By: [Constantin, Adrian](#) Conference: Meeting on Nonlinear Water Waves Location: Cetraro, ITALY Date: JUN 24-28, 2013 Sponsor(s): Int Mathl Summer Ctr; Inst Nazl Alta Matematica; Ministero Istruzione, Univ & Ric; Ente Cassa Risparmio Firenze [NONLINEAR WATER WAVES](#) Book Series: Lecture Notes in Mathematics Volume: 2158 Pages: 1-82 Published: 2016 **FI:0.345 P:5.63**

Punctaj citari lucrarea 1.: 854.81

Citari lucrarea 3.:

[OBSTACLE PROBLEM WITH A DEGENERATE FORCE TERM](#) By: [Yeressian, Karen](#) [ANALYSIS & PDE](#) Volume: 9 Issue: 2 Pages: 397-437 Published: 2016 **FI:1.462 P:19.62**

Punctaj citari lucrarea 3.: 19.62

Citari lucrarea 4.:

On some properties of velocity field for two dimensional rotational steady water waves By: Basu, Biswajit [NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS](#) Volume: 184 Pages: 17-34 Published: JUL 2019 **FI:1.45 P:19.5**

TRAVELING WAVE SOLUTIONS OF A HIGHLY NONLINEAR SHALLOW WATER EQUATION By: Geyer, Anna; Quirchmayr, Ronald [DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS](#) Volume: 38 Issue: 3 Pages: 1567-1604 Published: MAR 2018 **FI: 1.143 P:16.43**

[Pressure Transfer Functions for Interfacial Fluids Problems](#) By: [Chen, Robin Ming](#); [Hur, Vera](#) Mikyoung; [Walsh, Samuel](#) [JOURNAL OF MATHEMATICAL FLUID MECHANICS](#) Volume: 19 Issue: 1 Pages: 59-76 Published: MAR 2017 **FI:1.532 P:20.32**

On the recovery of traveling water waves with vorticity from the pressure at the bed By: Hur, Vera Mikyoung; Livesay, Michael R. [EUROPEAN JOURNAL OF MECHANICS B-FLUIDS](#) Volume: 60 Pages: 99-109 Published: NOV-DEC 2016 **FI:1.811 P: 23.11**

OBSTACLE PROBLEM WITH A DEGENERATE FORCE TERM By: Yeressian, Karen [ANALYSIS & PDE](#) Volume: 9 Issue: 2 Pages: 397-437 Published: 2016 **FI: 1.462 P: 19:62**

[Dispersion Equation for Water Waves with Vorticity and Stokes Waves on Flows with Counter-Currents](#), By: Kozlov, Vladimir; Kuznetsov, Nikolay, [ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS](#) Volume: 214 Issue: 3 Pages: 971-1018 Published: DEC 2014 **FI: 2.022 P: 27.22**

[On the Hamiltonian structure of the planar steady water-wave problem with vorticity](#), By: Groves, Mark D.; Stylianou, Athanasios, [COMPTES RENDUS MATHEMATIQUE](#) Volume: 352 Issue: 3 Pages: 205-211 Published: MAR 2014 **FI: 0.425 P:9.25**

Punctaj citari lucrarea 4.: 135.45

Citari lucrarea 5.:

Solitary water waves with discontinuous vorticity By: Akers, Adelaide; Walsh, Samuel [JOURNAL DE MATHEMATIQUES PURES ET APPLIQUEES](#) Volume: 124 Pages: 220-272 Published: APR 2019 **IF:1.961 P:24.61**

STEADY PERIODIC WATER WAVES BIFURCATING FOR FIXED-DEPTH ROTATIONAL FLOWS WITH DISCONTINUOUS VORTICITY By: Henry, David; Sastre-Gomez, Silvia [DIFFERENTIAL AND INTEGRAL EQUATIONS](#) Volume: 31 Issue: 1-2 Pages: 1-26 Published: JAN-FEB 2018 **IF:0.915 P:14.15**

[EQUIVALENT FORMULATIONS FOR STEADY PERIODIC WATER WAVES OF FIXED MEAN-DEPTH WITH DISCONTINUOUS VORTICITY](#) By: Sastre-Gomez, Silvia [DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS](#) Volume: 37 Issue: 5 Pages: 2669-2680 Published: MAY 2017 **IF: 1.143 P: 16.43**

[Continuous Dependence on the Density for Stratified Steady Water Waves](#) By: Chen, Robin Ming; Walsh, Samuel [ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS](#) Volume: 219 Issue: 2 Pages: 741-792 Published: FEB 2016 **IF 2.186 P: 26.86**

[On bounds and non-existence in the problem of steady waves with vorticity](#), By: Kozlov, V.; Kuznetsov, N.; Lokharu, E., [JOURNAL OF FLUID MECHANICS](#) Volume: 765 Article Number: R1 Published: FEB 2015 **FI: 2.294 P: 27.94**

[Dispersion Equation for Water Waves with Vorticity and Stokes Waves on Flows with Counter-Currents](#), By: Kozlov, Vladimir; Kuznetsov, Nikolay, [ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS](#) Volume: 214 Issue: 3 Pages: 971-1018 Published: DEC 2014 **FI: 2.022 P: 25.22**

[Steady Periodic Water Waves with Unbounded Vorticity: Equivalent Formulations and Existence Results](#), By: Martin, Calin Iulian; Matic, Bogdan-Vasile, [JOURNAL OF NONLINEAR SCIENCE](#) Volume: 24 Issue: 4 Pages: 633-659 Published: AUG 2014 **FI: 2.092 P: 25.92**

[Nonlinear water waves](#), By: Constantin, Adrian, [PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES](#) Volume: 370 Issue: 1964 Special Issue: SI Pages: 1501-1504 Published: APR 13 2012 **FI: 2.864 P: 33.64**

Punctaj citari lucrarea 5.: 194.77

Citari lucrarea 6.:

[EQUIVALENT FORMULATIONS FOR STEADY PERIODIC WATER WAVES OF FIXED MEAN-DEPTH WITH DISCONTINUOUS VORTICITY](#) By: Sastre-Gomez, Silvia [DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS](#) Volume: 37 Issue: 5 Pages: 2669-2680 Published: MAY 2017 **FI: 1.143 P: 16.43**

[Asymptotic Methods for Weakly Nonlinear and Other Water Waves](#) By: Johnson, Robin Stanley Conference: Meeting on Nonlinear Water Waves Location: Cetraro, ITALY Date: JUN 24-28, 2013 Sponsor(s): Int Mathl Summer Ctr; Inst Nazl Alta Matematica; Ministero Istruzione, Univ & Ric; Ente Cassa Risparmio Firenze [NONLINEAR WATER WAVES](#) Book Series: Lecture Notes in Mathematics Volume: 2158 Pages: 121-196 Published: 2016 **IF: 0.345 P: 8.45**

[OBSTACLE PROBLEM WITH A DEGENERATE FORCE TERM](#) By: Yeressian, Karen [ANALYSIS & PDE](#) Volume: 9 Issue: 2 Pages: 397-437 Published: 2016 **FI: 1.462 P: 19.62**

[Regularity of the Free Boundary in Problems with Distributed Sources](#) By: De Silva, Daniela; Ferrari, Fausto; Salsa, Sandro Conference: Indam Meeting on Geometric Methods in PDEs on the Occasion of the 70th birthday of Ermanno Lanconelli Location: Cortona, ITALY Date: MAY 27-31, 2013 [GEOMETRIC METHODS IN PDE'S](#) Book Series: Springer INdAM Series Volume: 13 Pages: 313-340 Published: 2015 **FI – P --**

[The second variation of the stream function energy of water waves with vorticity](#) By: Weiss, Georg S.; Zhang, Guanghui, JOURNAL OF DIFFERENTIAL EQUATIONS Volume: 253 Issue: 9 Pages: 2646-2656 Published: NOV 1 2012 **FI: 1.570 P: 20.70**

[A Free Boundary Approach to Two-Dimensional Steady Capillary Gravity Water Waves](#) By: Weiss, Georg S.; Zhang, Guanghui, ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS Volume: 203 Issue: 3 Pages: 747-768 Published: MAR 2012 **FI: 2.022 P: 25.22**

[On a Variational Approach for Water Waves](#) By: Arama, D.; Leoni, G., COMMUNICATIONS IN PARTIAL DIFFERENTIAL EQUATIONS Volume: 37 Issue: 5 Pages: 833-874 Published:2012; **FI: 1.194 P: 16.94**

Punctaj citari lucrarea 6.: 107.36

Citari lucrarea 7.:

[Qualitative study of effects of vorticity on traveling wave solutions to the two-component Zakharov-Ito system](#) By: Wen, Zhenshu APPLICABLE ANALYSIS Early Access: OCT 2019 **IF: 1.076 P:15.76**

[DISPERSION RELATIONS FOR STEADY PERIODIC WATER WAVES OF FIXED MEAN-DEPTH WITH TWO ROTATIONAL LAYERS](#) By: Martin, Calin Iulian; Rodriguez-Sanjurjo, Adrian DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS Volume: 39 Issue: 9 Pages: 5149-5169 Published: SEP 2019 **IF: 1.143 P: 16.43**

[EFFECTS OF VORTICITY ON THE TRAVELLING WAVES OF SOME SHALLOW WATER TWO-COMPONENT SYSTEMS](#) By: Dutykh, Denys; Ionescu-kruse, Delia DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS Volume: 39 Issue: 9 Pages: 5521-5541 Published: SEP 2019 **IF: 1.143 P: 16.43**

[STEADY PERIODIC EQUATORIAL WATER WAVES WITH VORTICITY](#) By: Chu, Jifeng; Escher, Joachim DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS Volume: 39 Issue: 8 Pages: 4713-4729 Published: AUG 2019 **IF: 1.143 P: 16.43**

[On some properties of velocity field for two dimensional rotational steady water waves](#) By: Basu, Biswajit NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 184 Pages: 17-34 Published: JUL 2019 **IF: 1.45 P: 19.5**

[Dispersion relations for fixed mean-depth flows with two discontinuities in vorticity](#) By: Kluczek, Mateusz; Martin, Calin Iulian NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 181 Pages: 62-86 Published: APR 2019 **IF: 1.45 P: 19.5**

[TWO-DIMENSIONAL GRAVITY WATER WAVES WITH CONSTANT VORTICITY I: CUBIC LIFESPAN](#) By: Ifrim, Mihaela; Tataru, Daniel ANALYSIS & PDE Volume: 12 Issue: 4 Pages: 903-967 Published: 2019 **IF: 1.462 P: 19.62**

Numerical Approximation of Water Waves Through a Deterministic Algorithm By: Amann, Dominic; Kalimeris, Konstantinos JOURNAL OF MATHEMATICAL FLUID MECHANICS Volume: 20 Issue: 4 Pages: 1815-1833 Published: DEC 2018 IF: **1.532 P: 20.32**

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[Nonlinear Water Waves with Applications to Wave-Current Interactions and Tsunamis](#), By: Constantin, A, NONLINEAR WATER WAVES WITH APPLICATIONS TO WAVE-CURRENT INTERACTIONS AND TSUNAMIS Book Series: CBMS-NSF Regional Conference Series in Applied Mathematics Volume: 81 Pages: 1-321 Published: 2011, Publisher: SIAM, 3600 UNIV CITY SCIENCE CENTER, PHILADELPHIA, PA 19104-2688 USA P:50

[On the global uniqueness of Stokes' wave of extreme form](#), By: Kobayashi, Kenta, [IMA JOURNAL OF APPLIED MATHEMATICS](#) Volume: 75 Issue: 5 Pages: 647-675 Published: OCT 2010 FI: 1.194 P:33.88

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[Symmetry of steady periodic gravity water waves with vorticity](#), By: Constantin, Adrian; Ehrnstrom, Mats; Wahlen, Erik, [DUKE MATHEMATICAL JOURNAL](#) Volume: 140 Issue: 3 Pages: 591-603 Published: DEC 1 2007 FI: 1.724 P: 44.48

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Punctaj citari lucrarea 12.: 758.04

Citari lucrarea 13. :

[Analytic Inequalities and Their Applications in PDEs](#) By: Qin, Y. ANALYTIC INEQUALITIES AND THEIR APPLICATIONS IN PDES Book Series: Operator Theory Advances and Applications Volume: 241 Pages: 1-564 Published: 2017 P: 50

[Convergence and decay rate to equilibrium of bounded solutions of quasilinear parabolic equations](#), By: Chill, Ralph; Fiorenza, Alberto, [JOURNAL OF DIFFERENTIAL EQUATIONS](#) Volume: 228 Issue: 2 Pages: 611-632 Published: SEP 15 2006 FI: 1.938 P:48.76

Punctaj citari lucrarea 13.: 98.76

Punctaj Criteriu I.12: 7845.43

I.13. Lucrari sustinute in calitate de invitat la manifestari stiintifice (25 puncte pentru fiecare activitate in strainatate, 10 puncte pentru fiecare actitivate in Romania)

Am sustinut lucrari in calitate de invitat la 44 de activitati stiintifice in strainatate si 3 in Romania, a caror lista completa este continuta in Curriculum Vitae.

Punctaj Criteriu I.13: 1130

I.14. Profesor/cercetator invitat la universitati/institute de cercetare (25 puncte pentru fiecare activitate in strainatate)

Am fost invitat de 6 ori la institute de cercetare, a caror lista este continuta in Curriculum Vitae.

Punctaj Criteriu I.14: 150

I.16. Premii internationale obtinute printr-un process de selectie (100 puncte)

Premiul Whitehead decernat de London Mathematical Society in 2012

Punctaj Criteriu I.16: 100

Numar total de puncte pentru activitatea de cercetare: 9225.43

II. Activitatea didactica (30%)

II.1 Tratatate si manuale universitare (30 puncte la 100 de pagini/ numar de autori)

N. Katzourakis and E. Varvaruca, An Illustrative Introduction to Modern Analysis, CRC Press, Taylor and Francis Group, Boca Raton, 2017, 558 pagini **P: 83.7**

Punctaj Criteriu II.1: 83.7

Numar total de puncte pentru activitatea didactica: 83.7

PUNCTAJ TOTAL: 6482.91