

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. crt.	Articol, referinta bibliografica	Nr. Autori (N)	Factor de impact (FI)	Punctaj $(60*FI+25)/N$
1.	E. Varvaruca and G. S. Weiss, <i>Singularities of steady axisymmetric free surface flows with gravity</i> , Comm. Pure Appl. Math. 67 (2014), 1263-1306	2	3.080	104.9
2.	E. Varvaruca and G. S. Weiss, <i>The Stokes conjecture for waves with vorticity</i> , Ann. Inst. H. Poincaré Anal. Non Linéaire 29 (2012),	2	1.326	52.28

	861-885			
3.	E. Varvaruca and A. Zarnescu, <i>Equivalence of weak formulations of the steady water waves equations</i> , Phil. Trans. Roy. Soc. London 370 (2012), 1703-1719	2	2.864	98.42
4.	E. Varvaruca and G. S. Weiss, <i>A geometric approach to generalized Stokes conjectures</i> , Acta Math. 206 (2011), 363-403	2	3.033	103.49
5.	A. Constantin and E. Varvaruca, <i>Steady periodic water waves with constant vorticity: regularity and local bifurcation</i> , Arch. Rational Mech. Analysis 199 (2011), 33-67	2	2.022	73.16
6.	E. Varvaruca, <i>On the existence of extreme waves and the Stokes conjecture with vorticity</i> , J. Differential Equations 246 (2009), 4043-4076	1	1.570	119.2
7.	E. Varvaruca, <i>On some properties of travelling water waves with vorticity</i> , SIAM J. Math. Anal. 39 (2008), 1686-1692	1	1.396	108.76
8.	E. Varvaruca, <i>Bernoulli free-boundary problems in strip-like domains and a property of permanent waves on water of finite depth</i> , Proc. Roy. Soc. Edinburgh Sect. A 138 (2008), 1345-1362	1	0.777	71.62
9.	E. Varvaruca, <i>Some geometric and analytic properties of solutions of Bernoulli free-boundary problems</i> , Interfaces Free Bound. 9 (2007), 367-381	1	0.574	59.44
10.	E. Varvaruca, <i>Singularities of Bernoulli free boundaries</i> , Comm. Partial Differential Equations 31 (2006), 1451-1477	1	1.194	96.64

11.	E. Varvaruca, <i>Exact rates of convergence as $t \rightarrow +\infty$ for solutions of nonlinear evolution equations</i> , J. Evol. Equ. 4 (2004), 543-565	1	0.643	63.58
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Punctaj Criteriu I.1: 951.49

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. Citate si recenzii ale lucrarilor stiintifice (punctaj P = (20* factor impact FI +10)/numar autori)

Citari lucrarea 2.:

[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 2.: 36.47

Citari lucrarea 3.:

[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 3.: 112.72

Citari lucrarea 4.:

[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 4.: 62.86

Citari lucrarea 5.:

[Trimodal Steady Water Waves](#), By: Ehrnstrom, Mats; Wahlen, Erik, ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS Volume: 216 Issue: 2 Pages: 449-471 Published: MAY 2015; **FI: 2.022 P:25.22**

[The flow beneath a periodic travelling surface water wave](#), By: Constantin, Adrian, JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL Volume: 48 Issue: 14 Article Number: 143001 Published: APR 10 2015 **FI: 1.687 P:21.87**

[Dispersion relations for gravity water flows with two rotational layers](#), By: Martin, Calin Iulian, EUROPEAN JOURNAL OF MECHANICS B-FLUIDS Volume: 50 Pages: 9-18 Published: MAR-APR 2015 **FI: 1.545 P:20.45**

[Analyticity of the streamlines and of the free surface for periodic equatorial gravity water flows with vorticity](#), By: Martin, Calin Iulian, NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS Volume: 21 Pages: 27-33 Published: FEB 2015 **FI: 2.338 P:28.38**

[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**

[Dispersion relations for rotational gravity water flows having two jumps in the vorticity distribution](#), By: Martin, Calin Iulian, JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS Volume: 418 Issue: 2 Pages: 595-611 Published: OCT 15 2014 **FI: 1.119 P:16.19**

[Capillary-Gravity Water Waves with Discontinuous Vorticity: Existence and Regularity Results](#), By: Maticiuc, Anca-Voichita; Maticiuc, Bogdan-Vasile, COMMUNICATIONS IN MATHEMATICAL PHYSICS Volume: 330 Issue: 2 Pages: 859-886 Published: SEP 2014 **FI: 1.901 P:24.01**

[Global bifurcation of capillary-gravity-stratified water waves](#), By: Henry, David; Maticiuc, Anca-Voichita PROCEEDINGS OF THE ROYAL SOCIETY OF EDINBURGH SECTION A-MATHEMATICS Volume: 144 Issue: 4 Pages: 775-786 Published: AUG 2014 **FI: 0.777 P:12.77**

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

[Blowup solutions for the generalized two-component Camassa-Holm system on the circle](#), By: Guo, Fei; Peng, Weiwei, NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 105 Pages: 120-133 Published: AUG 2014 **FI: 1.612 P:21.12**

[SMALL-AMPLITUDE EQUATORIAL WATER WAVES WITH CONSTANT VORTICITY: DISPERSION RELATIONS AND PARTICLE TRAJECTORIES](#), By: Ionescu-Kruse, Delia; Maticiuc, Anca-Voichita, DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS Volume: 34 Issue: 8 Special Issue: SI Pages: 3045-3060 Published: AUG 2014 **FI: 0.923 P:14.23**

[PARTICLE TRAJECTORIES IN EXTREME STOKES WAVES OVER INFINITE DEPTH](#), By: Lyons, Tony, DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS Volume: 34 Issue: 8 Special Issue: SI Pages: 3095-3107 Published: AUG 2014 **FI:0.923 P:14.23**

[DISPERSION RELATIONS FOR PERIODIC WATER WAVES WITH SURFACE TENSION AND DISCONTINUOUS VORTICITY](#), By: Martin, Calin Iulian, DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS Volume: 34 Issue: 8 Special Issue: SI Pages: 3109-3123 Published: AUG 2014 **FI: 0.923 P:14.23**

[A CHARACTERIZATION OF THE SYMMETRIC STEADY WATER WAVES IN TERMS OF THE UNDERLYING FLOW](#), By: Matic, Bogdan-Vasile, DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS Volume: 34 Issue: 8 Special Issue: SI Pages: 3125-3133 Published: AUG 2014 **FI:0.923 P.14.23**

[PRESSURE BENEATH A TRAVELING WAVE WITH CONSTANT VORTICITY](#), By: Vasan, Vishal; Oliveras, Katie DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS Volume: 34 Issue: 8 Special Issue: SI Pages: 3219-3239 Published: AUG 2014 **FI:0.923 P:14.23**

[Steady water waves with vorticity: an analysis of the dispersion equation](#), By: Kozlov, V.; Kuznetsov, N.; Lokharu, E. JOURNAL OF FLUID MECHANICS Volume: 751 Article Number: R3 Published: JUL 2014 **FI:2.294 P:25.94**

[Global bifurcation for water waves with capillary effects and constant vorticity](#), By: Matic, Bogdan-Vasile, MONATSHFTE FUR MATHEMATIK Volume: 174 Issue: 3 Pages: 459-475 Published: JUL 2014 **FI: 0.638 P:11.38**

[On Crapper's wave](#), By: Martin, Calin Iulian, APPLICABLE ANALYSIS Volume: 93 Issue: 5 Pages: 1106-1113 Published: MAY 4 2014 **FI: 0.684 P:11.84**

[Non-existence of three-dimensional travelling water waves with constant non-zero vorticity](#), By: Wahlen, E., JOURNAL OF FLUID MECHANICS Volume: 746 Article Number: R2 Published: MAY 2014 **FI: 2.294 P:27.94**

[On the existence of equatorial wind waves](#), By: Henry, David; Matic, Anca-Voichita, NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 101 Pages: 113-123 Published: MAY 2014 **FI:1.612 P:21.12**

[Existence of capillary-gravity water waves with piecewise constant vorticity](#), By: Martin, Calin Iulian; Matic, Bogdan-Vasile, JOURNAL OF DIFFERENTIAL EQUATIONS Volume: 256 Issue: 8 Pages: 3086-3114 Published: APR 15 2014 **FI: 1.570 P:20.70**

[ON THE ANALYTICITY OF PERIODIC GRAVITY WATER WAVES WITH INTEGRABLE VORTICITY FUNCTION](#), By: Escher, Joachim; Matic, Bogdan-Vasile, DIFFERENTIAL AND INTEGRAL EQUATIONS Volume: 27 Issue: 3-4 Pages: 217-232 Published: MAR-APR 2014 **FI: 0.542 P: 10.42**

[Equatorial wind waves with capillary effects and stagnation points](#), By: Martin, Calin Iulian, NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 96 Pages: 1-17 Published: FEB 2014 **FI:1.612 P: 21.12**

[Fully nonlinear long-wave models in the presence of vorticity](#), By: Castro, Angel; Lannes, David, JOURNAL OF FLUID MECHANICS Volume: 759 Published: 2014 **FI: 2.294 P: 27.94**

[Steady water waves with vorticity: spatial Hamiltonian structure](#), By: Kozlov, Vladimir; Kuznetsov, Nikolay JOURNAL OF FLUID MECHANICS Volume: 733 Article Number: R1 Published: OCT 2013 **FI: 2.294 P:27.94**

[A regularity result for Caldern commutators](#), By: Martin, Calin Iulian, MONATSHFTE FUR MATHEMATIK Volume: 172 Issue: 1 Pages: 85-96 Published: OCT 2013 **FI: 0.638 P:11.38**

[On the stability of travelling waves with vorticity obtained by minimization](#), By: Buffoni, B.; Burton, G. R., NODEA-NONLINEAR DIFFERENTIAL EQUATIONS AND APPLICATIONS Volume: 20 Issue: 5 Pages: 1597-1629 Published: OCT 2013 **FI: 0.971 P:14.71**

[Particle trajectories for waves on a linear shear current](#), By: Hsu, Hung-Chu, NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS Volume: 14 Issue: 5 Pages: 2013-2021 Published: OCT 2013 **FI: 2.338 P:28.38**

[Large Amplitude Steady Periodic Waves for Fixed-Depth Rotational Flows](#), By: Henry, David, COMMUNICATIONS IN PARTIAL DIFFERENTIAL EQUATIONS Volume: 38 Issue: 6 Pages: 1015-1037 Published: JUN 3 2013 **FI: 1.194 P:16.94**

[Travelling water waves with compactly supported vorticity](#), By: Shatah, Jalal; Walsh, Samuel; Zeng, Chongchun, NONLINEARITY Volume: 26 Issue: 6 Pages: 1529-1564 Published: JUN 2013 **FI: 1.200 P:17**

[Dispersion relations for steady periodic water waves with an isolated layer of vorticity at the surface](#), By: Henry, David, NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS Volume: 14 Issue: 2 Pages: 1034-1043 Published: APR 2013 **FI: 2.338 P:28.38**

[ON EQUATORIAL WIND WAVES](#), By: Constantin, Adrian, DIFFERENTIAL AND INTEGRAL EQUATIONS Volume: 26 Issue: 3-4 Pages: 237-252 Published: MAR-APR 2013 **FI: 0.542 P:10.42**

[On the Particle Paths and the Stagnation Points in Small-Amplitude Deep-Water Waves](#), By: Ionescu-Kruse, Delia, JOURNAL OF MATHEMATICAL FLUID MECHANICS Volume: 15 Issue: 1 Pages: 41-54 Published: MAR 2013 **FI: 1.305 P:18.05**

[Local Bifurcation for Steady Periodic Capillary Water Waves with Constant Vorticity](#), By: Martin, Calin Iulian, JOURNAL OF MATHEMATICAL FLUID MECHANICS Volume: 15 Issue: 1 Pages: 155-170 Published: MAR 2013 **FI: 1.305 P:18.05**

[WAVE-BREAKING PHENOMENA AND GLOBAL SOLUTIONS FOR PERIODIC TWO-COMPONENT DULLIN-GOTTWALD-HOLM SYSTEMS](#), By: Zhu, Min; Xu, Junxiang ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS Article Number: 44 Published: FEB 8 2013 **FI: 0.419 P:9.19**

[On free surfaces in hydrostatic flows](#), By: Henry, David, APPLICABLE ANALYSIS Volume: 92 Issue: 2 Pages: 238-245 Published: FEB 1 2013 **FI: 0.684 P: 11.84**

[Local bifurcation and regularity for steady periodic capillary-gravity water waves with constant vorticity](#), By: Martin, Calin Iulian, NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS Volume: 14 Issue: 1 Pages: 131-149 Published: FEB 2013, **FI: 2.338 P:28.38**

[On the existence of steady periodic capillary-gravity stratified water waves](#), By: Henry, David; Matic, Bogdan-Vasile, ANNALI DELLA SCUOLA NORMALE SUPERIORE DI PISA-CLASSE DI SCIENZE Volume: 12 Issue: 4 Pages: 955-974 Published: 2013 **FI: 0.906 P:14.06**

[STEADY WATER WAVES IN THE PRESENCE OF WIND](#), By: Walsh, Samuel; Buehler, Oliver; Shatah, Jalal, SIAM JOURNAL ON MATHEMATICAL ANALYSIS Volume: 45 Issue: 4 Pages: 2182-2227 Published: 2013 **FI: 1.396 P: 18.96**

[EXISTENCE OF WILTON RIPPLES FOR WATER WAVES WITH CONSTANT VORTICITY AND CAPILLARY EFFECTS](#), By: Martin, Calin Iulian; Matioc, Bogdan-Vasile, SIAM JOURNAL ON APPLIED MATHEMATICS Volume: 73 Issue: 4 Pages: 1582-1595 Published: 2013 **FI: 1.414 P: 19.14**

[Reconstruction of the pressure in long-wave models with constant vorticity](#), By: Ali, Alfatih; Kalisch, Henrik, EUROPEAN JOURNAL OF MECHANICS B-FLUIDS Volume: 37 Pages: 187-194 Published: JAN-FEB 2013 **FI: 1.545 P: 20.45**

[STEADY PERIODIC WAVES BIFURCATING FOR FIXED-DEPTH ROTATIONAL FLOWS](#), By: Henry, David, QUARTERLY OF APPLIED MATHEMATICS Volume: 71 Issue: 3 Pages: 455-487 Article Number: PII S0033-569X(2013)01293-8 Published: 2013 **FI: 0.536 P: 10.36**

[DISPERSION RELATIONS FOR STEADY PERIODIC WATER WAVES OF FIXED MEAN-DEPTH WITH AN ISOLATED BOTTOM VORTICITY LAYER](#), By: Henry, David JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS Volume: 19 Supplement: 1 Article Number: 1240007 Published: OCT 2012 **FI: 0.613 P: 11.13**

[A PROBLEM IN THE CLASSICAL THEORY OF WATER WAVES: WEAKLY NONLINEAR WAVES IN THE PRESENCE OF VORTICITY](#), By: Johnson, Robin Stanley JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS Volume: 19 Supplement: 1 Article Number: 1240012 Published: OCT 2012 **FI: 0.613 P: 11.13**

[REGULARITY OF STEADY PERIODIC CAPILLARY WATER WAVES WITH CONSTANT VORTICITY](#), By: Martin, Calin Iulian, JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS Volume: 19 Supplement: 1 Article Number: 1240006 Published: OCT 2012 **FI: 0.613 P: 11.13**

[ON CONSTANT VORTICITY FLOWS BENEATH TWO-DIMENSIONAL SURFACE SOLITARY WAVES](#), By: Stuhlmeier, Raphael, JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS Volume: 19 Supplement: 1 Article **FI: 0.613 P: 11.13**

[Steady Water Waves with Multiple Critical Layers: Interior Dynamics](#), By: Ehrnstroem, Mats; Escher, Joachim; Villari, Gabriele, JOURNAL OF MATHEMATICAL FLUID MECHANICS Volume: 14 Issue: 3 Pages: 407-419 Published: SEP 2012 **FI: 1.305 P: 18.05**

[INTRODUCTION TO THE SPECIAL ISSUE ON HYDRODYNAMIC MODEL EQUATIONS](#), By: Constantin, Adrian; Escher, Joachim, COMMUNICATIONS ON PURE AND APPLIED ANALYSIS Volume: 11 Issue: 4 Pages: I-III Published: JUL 2012 **FI: 0.708 P: 12.08**

[DISPERSION RELATIONS FOR PERIODIC TRAVELING WATER WAVES IN FLOWS WITH DISCONTINUOUS VORTICITY](#), By: Constantin, Adrian COMMUNICATIONS ON PURE AND APPLIED ANALYSIS Volume: 11 Issue: 4 Pages: 1397-1406 Published: JUL 2012 **FI: 0.708 P: 12.08**

[ON THE REGULARITY OF STEADY PERIODIC STRATIFIED WATER WAVES](#), By: Henry, David; Matioc, Bogdan-Vasile, COMMUNICATIONS ON PURE AND APPLIED ANALYSIS Volume: 11 Issue: 4 Pages: 1453-1464 Published: JUL 2012 **FI: 0.708 P: 12.08**

[ELLIPTIC AND HYPERELLIPTIC FUNCTIONS DESCRIBING THE PARTICLE MOTION BENEATH SMALL-AMPLITUDE WATER WAVES WITH CONSTANT VORTICITY](#), By: Ionescu-Kruse, Delia COMMUNICATIONS ON PURE AND APPLIED ANALYSIS Volume: 11 Issue: 4 Pages: 1475-1496 Published: JUL 2012 **FI: 0.708 P: 12.08**

[A SELECTION OF NONLINEAR PROBLEMS IN WATER WAVES, ANALYSED BY PERTURBATION-PARAMETER TECHNIQUES](#), By: Johnson, R. S. COMMUNICATIONS ON PURE AND APPLIED ANALYSIS Volume: 11 Issue: 4 Pages: 1497-1522 Published: JUL 2012 **FI: 0.708 P:12.08**

[ON ISOLATED VORTICITY REGIONS BENEATH THE WATER SURFACE](#), By: Mustafa, Octavian G. COMMUNICATIONS ON PURE AND APPLIED ANALYSIS Volume: 11 Issue: 4 Pages: 1523-1535 Published: JUL 2012 **FI: 0.708 P:12.08**

[EFFECTS OF SHEAR FLOW ON KDV BALANCE - APPLICATIONS TO TSUNAMI](#), By: Stuhlmeier, Raphael, COMMUNICATIONS ON PURE AND APPLIED ANALYSIS Volume: 11 Issue: 4 Pages: 1549-1561 Published: JUL 2012 **FI: 0.708 P:12.08**

[ON THE SYMMETRY OF STEADY PERIODIC WATER WAVES WITH STAGNATION POINTS](#), By: Tulzer, Gerhard, COMMUNICATIONS ON PURE AND APPLIED ANALYSIS Volume: 11 Issue: 4 Pages: 1577-1586 Published: JUL 2012 **FI: 0.708 P:12.08**

[Particle trajectories in extreme Stokes waves](#), By: Constantin, Adrian, IMA JOURNAL OF APPLIED MATHEMATICS Volume: 77 Issue: 3 Special Issue: SI Pages: 293-307 Published: JUN 2012 **FI: 1.194 P:16.94**

[Analyticity of the Free Surface for Periodic Travelling Capillary-Gravity Water Waves with Vorticity](#), By: Henry, David, JOURNAL OF MATHEMATICAL FLUID MECHANICS Volume: 14 Issue: 2 Pages: 249-254 Published: JUN 2012 **FI: 1.305 P:18.05**

[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**

[Theoretical and experimental study of particle trajectories for nonlinear water waves propagating on a sloping bottom](#), By: Chen, Yang-Yih; Li, Meng-Syue; Hsu, Hung-Chu; et al., PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 370 Issue: 1964 Special Issue: SI Pages: 1543-1571 Published: APR 13 2012 **FI: 2.864 P:33.64**

[Regularity of rotational travelling water waves](#), By: Escher, Joachim, PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 370 Issue: 1964 Special Issue: SI Pages: 1602-1615 Published: APR 13 2012 **FI: 2.864 P: 33.64**

[Regularity for steady periodic capillary water waves with vorticity](#), By: Henry, David, PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 370 Issue: 1964 Special Issue: SI Pages: 1616-1628 Published: APR 13 2012 **FI: 2.864 P:33.64**

[Models for the formation of a critical layer in water wave propagation](#), By: Johnson, R. S. PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 370 Issue: 1964 Special Issue: SI Pages: 1638-1660 Published: APR 13 2012 **FI: 2.864 P:33.64**

[Trajectories of fluid particles in a periodic water wave](#), By: Okamoto, Hisashi; Shoji, Mayumi, PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 370 Issue: 1964 Special Issue: SI Pages: 1661-1676 Published: APR 13 2012 **FI: 2.864 P:33.64**

[On the modelling of equatorial waves](#), By: Constantin, A., GEOPHYSICAL RESEARCH LETTERS Volume: 39 Article Number: L05602 Published: MAR 3 2012 **FI: 4.456 P:44.56**

[STEADY INTERNAL WATER WAVES WITH A CRITICAL LAYER BOUNDED BY THE WAVE SURFACE](#), By: Matic, Anca-Voichita, JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS Volume: 19 Issue: 1 Article Number: 1250008 Published: MAR 2012 **FI: 0.613 P:11.13**

[On stratified steady periodic water waves with linear density distribution and stagnation points](#), By: Escher, Joachim; Matic, Anca-Voichita; Matic, Bogdan-Vasile, JOURNAL OF DIFFERENTIAL EQUATIONS Volume: 251 Issue: 10 Pages: 2932-2949 Published: NOV 15 2011 **FI: 1.570 P:20.70**

[Periodic Traveling Gravity Water Waves with Discontinuous Vorticity](#), By: Constantin, Adrian; Strauss, Walter, ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS Volume: 202 Issue: 1 Pages: 133-175 Published: OCT 2011 **FI: 2.022 P:25.22**

[Stokes waves with vorticity](#), By: Hur, Vera Mikiyoung, JOURNAL D ANALYSE MATHEMATIQUE Volume: 113 Pages: 331-386 Published: JAN 2011 **FI:0.838 P: 13.38**

[Two-dimensionality of gravity water flows of constant nonzero vorticity beneath a surface wave train](#) By: Constantin, A., EUROPEAN JOURNAL OF MECHANICS B-FLUIDS Volume: 30 Issue: 1 Pages: 12-16 Published: JAN-FEB 2011 **FI: 1.545 P:20.45**

[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 **P: 50**

[STEADY WATER WAVES WITH MULTIPLE CRITICAL LAYERS](#), By: Ehrnstroem, Mats; Escher, Joachim; Wahlen, Erik, SIAM JOURNAL ON MATHEMATICAL ANALYSIS Volume: 43 Issue: 3 Pages: 1436-1456 Published: 2011 **FI: 1.396 P:18.96**

Punctaj citari lucrarea 5.: 1394.77

Citari lucrarea 6.:

[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:50.44**

[ON TWO PHASE FREE BOUNDARY PROBLEMS GOVERNED BY ELLIPTIC EQUATIONS WITH DISTRIBUTED SOURCES](#), By: De Silva, Daniela; Ferrari, Fausto; Salsa, Sandro, DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES S Volume: 7 Issue: 4 Pages: 673-693 Published: AUG 2014 **FI: 0.923 P: 28.46**

[On the Particle Paths and the Stagnation Points in Small-Amplitude Deep-Water Waves](#), By: Ionescu-Kruse, Delia, JOURNAL OF MATHEMATICAL FLUID MECHANICS Volume: 15 Issue: 1 Pages: 41-54 Published: MAR 2013 **FI: 1.305 P: 36.10**

[LARGE-AMPLITUDE SOLITARY WATER WAVES WITH VORTICITY](#), By: Wheeler, Miles H., SIAM JOURNAL ON MATHEMATICAL ANALYSIS Volume: 45 Issue: 5 Pages: 2937-2994 Published: 2013 **FI: 1.396 P:37.92**

[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:41.4**

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[ELLIPTIC AND HYPERELLIPTIC FUNCTIONS DESCRIBING THE PARTICLE MOTION BENEATH SMALL-AMPLITUDE WATER WAVES WITH CONSTANT VORTICITY](#), By: Ionescu-Kruse, Delia, COMMUNICATIONS ON PURE AND APPLIED ANALYSIS Volume: 11 Issue: 4 Pages: 1475-1496 Published: JUL 2012 **FI: 0.708 P:24.16**

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[Stokes waves with vorticity](#), By: Hur, Vera Mikyoung, [JOURNAL D ANALYSE MATHEMATIQUE](#) Volume: 113 Pages: 331-386 Published: JAN 2011 **FI: 0.838 P:26.76**

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[Recovery of the wave profile for irrotational periodic water waves from pressure measurements](#), By: Kogelbauer, Florian, [NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS](#) Volume: 22 Pages: 219-224 Published: APR 2015 **FI: 2.338 P:56.76**

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[The Benjamin-Lighthill Conjecture for Steady Water Waves \(revisited\)](#), By: Kozlov, Vladimir; Kuznetsov, Nikolay, [ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS](#) Volume: 201 Issue: 2 Pages: 631-645 Published: AUG 2011 **FI: 2.022 P: 50.44**

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[Trimodal Steady Water Waves](#), By: Ehrnstrom, Mats; Wahlen, Erik, [ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS](#) Volume: 216 Issue: 2 Pages: 449-471 Published: MAY 2015 **FI: 2.022 P:50.44**

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[Two-dimensionality of gravity water flows of constant nonzero vorticity beneath a surface wave train](#), By: Constantin, A., [EUROPEAN JOURNAL OF MECHANICS B-FLUIDS](#) Volume: 30 Issue: 1 Pages: 12-16 Published: JAN-FEB 2011 **FI: 1.545 P: 40.9**

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[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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Citari lucrarea 11.:

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Punctaj citari lucrarea 11.: 41.4

Punctaj Criteriu I.12: 4200.14

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

Am sustinut lucrari in calitate de invitat la 39 de activitati stiintifice in strainatate si una in Romania, a caror lista completa este continuta in Curriculum Vitae.

Punctaj Criteriu I.13: 985

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

Am fost invitat de 4 ori la institute de cercetare, a caror lista este continuta in Curriculum Vitae.

Punctaj Criteriu I.13: 100

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: 6351.63

II. Activitatea didactica (30%)

II.3 Materiale suport curs, seminar, si programme analitice detaliate (10 puncte pentru fiecare activitate)

Am pregatit asemenea materiale pentru cursurile MA3TLA Topology and Linear Analysis si MA2VAD Vector Analysis and Differential Equations la Universitatea din Reading.

Punctaj Criteriu II.3: 20

Numar total de puncte pentru activitatea didactica: 20

PUNCTAJ TOTAL: 4452.141