

Published books and research monographs

1. A. Constantin, *Analysis I*, Springer Spektrum, Berlin, Heidelberg, 2024 (xv+649 pp.)
2. A. Constantin, *Fourier Analysis. Part 1. Theory*, London Mathematical Society Student Texts 85, Cambridge University Press, 2016 (xiv+353 pp.)
3. A. Constantin, *Nonlinear water waves with applications to wave-current interactions and tsunamis*, CBMS-NSF Conf. Ser. Appl. Math. 81, SIAM, Philadelphia, 2011 (xii+321 pp.)

Publications in peer-reviewed research journals

1. A. Constantin and R. S. Johnson, *Atmospheric undular bores*, Math. Ann. 388 (2024), 4011–4036.
2. A. Constantin, *Exact nonlinear mountain waves propagating upwards*, Journal of Physics A: Mathematical and Theoretical 56 (2023), Art. 245702, 18 pp.
3. A. Constantin, *On Saturn's six-sided polar jet stream*, Geophys. Astrophys. Fluid Dyn. 117 (2023), 279–291.
4. A. Constantin and L. Molinet, *Global existence and finite-time blow-up for a nonlinear nonlocal evolution equation*, Comm. Math. Phys. 402 (2023), 3233–3252.
5. A. A. Abrashkin and A. Constantin, *A steady azimuthal stratified flow modelling the Antarctic Circumpolar Current*, Journal of Differential Equations 374 (2023), 632–641.
6. A. Constantin and R. S. Johnson, *On the dynamics of the near-surface currents in the Arctic Ocean*, Nonlinear Analysis: Real World Applications 73 (2023), Art. 103894, 43 pp.
7. A. Constantin, *A uniqueness criterion for ordinary differential equations*, Journal of Differential Equations 342 (2023), 179–192.
8. A. Constantin and P. Germain, *Stratospheric planetary flows from the perspective of the Euler equation on a rotating sphere*, Arch. Ration. Mech. Anal. 245 (2022), 587–644.
9. A. Constantin and R. S. Johnson, *On the propagation of nonlinear waves in the atmosphere*, Proc. A. 478 (2022), 20210895, 26 pp.
10. A. Constantin, *Nonlinear wind-drift ocean currents in arctic regions*, Geophys. Astrophys. Fluid Dyn. 116 (2022), 101–115.
11. A. Constantin, *Comments on: nonlinear wind-drift ocean currents in arctic regions*, Geophys. Astrophys. Fluid Dyn. 116 (2022), 116–121.
12. A. Constantin, W. Strauss, and E. Varvaruca, *Large-amplitude steady downstream water waves*, Comm. Math. Phys. 387 (2021), 237–266.
13. A. Constantin and R. S. Johnson, *On the propagation of waves in the atmosphere*, Proc. A. 477 (2021), 20200424, 25 pp.
14. A. Constantin and R. S. Johnson, *On the modelling of large-scale atmospheric flow*, Journal of Differential Equations, 285 (2021), 751–798.
15. A. Constantin, *Frictional effects in wind-driven ocean currents*, Geophys. Astrophys. Fluid Dyn. 115 (2021), 1–14.
16. A. Constantin, D. G. Crowdy, V. S. Krishnamurthy, and M. H. Wheeler, *Stuart-type polar vortices on a rotating sphere*, Discrete Contin. Dyn. Syst. 41 (2021), 201–215.
17. V. S. Krishnamurthy, M. H. Wheeler, D. G. Crowdy, and A. Constantin, *Liouville chains: new hybrid vortex equilibria of the two-dimensional Euler equation*, J. Fluid Mech. 921 (2021), Paper No. A1, 35 pp.
18. A. Constantin, D. G. Dritschel and N. Paldor, *The deflection angle between a wind-forced surface current and the overlying wind in an ocean with vertically varying eddy viscosity*, Phys. Fluids 32 (2020), 116604.
19. A. Aleman and A. Constantin, *On the decrease of kinetic energy with depth in wave-current interactions*, Math. Ann. 378 (2020), 853–872.
20. D. G. Dritschel, N. Paldor and A. Constantin, *The Ekman spiral for piecewise-uniform viscosity*, Ocean Science 16 (2020), 1089–1093.
21. V. S. Krishnamurthy, M. H. Wheeler, D. G. Crowdy, and A. Constantin, *A transformation between stationary point vortex equilibria*, Proc. A 476 (2020), no. 2240, 20200310, 21 pp.
22. A. Constantin and R. I. Ivanov, *Equatorial wave-current interactions*, Comm. Math. Phys. 370 (2019), 1–48.
23. A. Constantin and R. S. Johnson, *Atmospheric Ekman flows with variable eddy viscosity*, Boundary-Layer Meteorology 170 (2019), 395–414.
24. A. Bressan and A. Constantin, *The deflection angle of surface ocean currents from the wind direction*, J. Geophys. Res.: Oceans 124 (2019), 7412–7420.
25. A. Constantin and R. S. Johnson, *On the nonlinear, three-dimensional structure of equatorial oceanic flows*, J. Phys. Oceanography 49 (2019), 2029–2042.
26. A. Constantin and R. S. Johnson, *Ekman-type solutions for shallow-water flows on a rotating sphere: a new perspective on a classical problem*, Phys. Fluids 31 (2019), 021401.
27. A. Constantin and R. S. Johnson, *Large-scale oceanic currents as shallow-water asymptotic solutions of the Navier-Stokes equation in rotating spherical coordinates*, Deep Sea Research Part II: Topical Studies in Oceanography 160 (2019), 32–40.

28. V. S. Krishnamurthy, M. H. Wheeler, D. G. Crowdy, and A. Constantin, *Steady point vortex pair in a field of Stuart-type vorticity*, *J. Fluid Mech.* 874 (2019), R1.
29. A. Constantin and V. S. Krishnamurthy, *Stuart-type vortices on a rotating sphere*, *J. Fluid Mech.* 865 (2019), 1072–1084.
30. A. Constantin and R. S. Johnson, *Steady large-scale ocean flows in spherical coordinates*, *Oceanography* 31 (2019), 42–50.
31. A. Constantin and S. G. Monismith, *Gerstner waves in the presence of mean currents and rotation*, *J. Fluid Mech.* 820 (2017), 511–528.
32. A. Constantin and R. S. Johnson, *Large gyres as a shallow-water asymptotic solution of Euler's equation in spherical coordinates*, *Proc. A.* 473 (2017), no. 2200, 20170063, 17 pp.
33. A. Constantin and R. S. Johnson, *A nonlinear, three-dimensional model for ocean flows, motivated by some observations of the Pacific Equatorial Undercurrent and thermocline*, *Phys. Fluids* 29 (2017), 056604.
34. A. Constantin and R. Ivanov, *Dressing method for the Degasperis-Procesi equation*, *Stud. Appl. Math.* 138 (2017), no. 2, 205–226.
35. A. Constantin, W. Strauss, and E. Varvaruca, *Global bifurcation of steady gravity water waves with critical layers*, *Acta Math.* 217 (2016), no. 2, 195–262.
36. A. Constantin, R. I. Ivanov, and C.-I. Martin, *Hamiltonian formulation for wave-current interactions in stratified rotational flows*, *Arch. Ration. Mech. Anal.* 221 (2016), no. 3, 1417–1447.
37. A. Constantin and R. S. Johnson, *An exact, steady, purely azimuthal flow as a model for the Antarctic Circumpolar Current*, *J. Phys. Oceanography* 46 (2016), 3585–3594.
38. A. Constantin, *Extrema of the dynamic pressure in an irrotational regular wave train*, *Phys. Fluids* 28 (2016), 113604.
39. A. Constantin and R. S. Johnson, *An exact, steady, purely azimuthal equatorial flow with a free surface*, *J. Phys. Oceanography* 46 (2016), 1935–1945.
40. A. Constantin and R. S. Johnson, *Current and future prospects for the application of systematic theoretical methods to the study of problems in physical oceanography*, *Phys. Letters A* 380 (2016), 3007–3012.
41. A. Constantin, *The time evolution of the maximal horizontal surface fluid velocity for an irrotational wave approaching breaking*, *J. Fluid Mech.* 768 (2015), 468–475.
42. A. Constantin and R. S. Johnson, *The dynamics of waves interacting with the Equatorial Undercurrent*, *Geophys. Astrophys. Fluid Dyn.* 109 (2015), no. 4, 311–358.
43. A. Constantin, K. Kalimeris, and O. Scherzer, *A penalization method for calculating the flow beneath traveling water waves of large amplitude*, *SIAM J. Appl. Math.* 75 (2015), no. 4, 1513–1535.
44. A. Constantin, K. Kalimeris, and O. Scherzer, *Approximations of steady periodic water waves in flows with constant vorticity*, *Nonlinear Anal. Real World Appl.* 25 (2015), 276–306.
45. A. Constantin and R. I. Ivanov, *A Hamiltonian approach to wave-current interactions in two-layer fluids*, *Phys. Fluids* 27 (2015), 086603.
46. A. Constantin, *The flow beneath a periodic travelling surface water wave*, *J. Phys. A: Mathematical and Theoretical* 48 (2015), 143001.
47. A. Constantin, *Estimating wave heights from pressure data at the bed*, *J. Fluid Mech.* 743 (2014), R2, 10 pp.
48. A. Constantin, *Stokes waves in water with a non-flat bed*, *J. Fluid Mech.* 740 (2014), 17–27.
49. A. Constantin, *Some nonlinear, equatorially trapped, nonhydrostatic internal geophysical waves*, *J. Phys. Oceanography* 44 (2014), 781–789.
50. A. Constantin, *On equatorial wind waves*, *Differential Integral Equations* 26 (2013), no. 3-4, 237–252.
51. A. Constantin, *Mean velocities in a Stokes wave*, *Arch. Ration. Mech. Anal.* 207 (2013), no. 3, 907–917.
52. A. Constantin and P. Germain, *Instability of some equatorially trapped waves*, *J. Geophys. Res.: Oceans* 118 (2013), 2802–2810.
53. D. Clamond and A. Constantin, *Recovery of steady periodic wave profiles from pressure measurements at the bed*, *J. Fluid Mech.* 714 (2013), 463–475.
54. A. Constantin, *Particle trajectories in extreme Stokes waves*, *IMA J. Appl. Math.* 77 (2012), no. 3, 293–307.
55. A. Constantin, *On the recovery of solitary wave profiles from pressure measurements*, *J. Fluid Mech.* 699 (2012), 376–384.
56. A. Aleman and A. Constantin, *Harmonic maps and ideal fluid flows*, *Arch. Ration. Mech. Anal.* 204 (2012), no. 2, 479–513.
57. A. Constantin and P. Germain, *On the open sea propagation of water waves generated by a moving bed*, *Philos. Trans. R. Soc. Lond. Ser. A Math. Phys. Eng. Sci.* 370 (2012), no. 1964, 1587–1601.
58. A. Constantin, *Some three-dimensional nonlinear equatorial flows*, *J. Phys. Oceanography* 43 (2013), 165–175.
59. A. Constantin, *An exact solution for equatorially trapped waves*, *J. Geophys. Res.: Oceans* 117 (2012), C05029.
60. A. Constantin, *On the modelling of equatorial waves*, *Geophys. Res. Lett.* 39 (2012), L05602.
61. A. Constantin, *Dispersion relations for periodic traveling water waves in flows with discontinuous vorticity*, *Commun. Pure Appl. Anal.* 11 (2012), no. 4, 1397–1406.

62. A. Constantin and W. Strauss, *Periodic traveling gravity water waves with discontinuous vorticity*, Arch. Ration. Mech. Anal. 202 (2011), no. 1, 133–175.
63. A. Constantin, J. Escher, and H.-C. Hsu, *Pressure beneath a solitary water wave: mathematical theory and experiments*, Arch. Ration. Mech. Anal. 201 (2011), no. 1, 251–269.
64. A. Constantin, *A dynamical systems approach towards isolated vorticity regions for tsunami background states*, Arch. Ration. Mech. Anal. 200 (2011), no. 1, 239–253.
65. A. Constantin, *Two-dimensionality of gravity water flows of constant nonzero vorticity beneath a surface wave train*, Eur. J. Mech. B Fluids 30 (2011), no. 1, 12–16.
66. A. Constantin and E. Varvaruca, *Steady periodic water waves with constant vorticity: regularity and local bifurcation*, Arch. Ration. Mech. Anal. 199 (2011), no. 1, 33–67.
67. A. Constantin and J. Escher, *Analyticity of periodic traveling free surface water waves with vorticity*, Ann. of Math. (2) 173 (2011), no. 1, 559–568.
68. A. Constantin, R. I. Ivanov, and J. Lenells, *Inverse scattering transform for the Degasperis-Procesi equation*, Nonlinearity 23 (2010), no. 10, 2559–2575.
69. A. Constantin and W. Strauss, *Trochoidal solutions to the incompressible two-dimensional Euler equations*, J. Math. Fluid Mech. 12 (2010), no. 2, 181–201.
70. A. Constantin and W. Strauss, *Pressure beneath a Stokes wave*, Comm. Pure Appl. Math. 63 (2010), no. 4, 533–557.
71. A. Constantin, *On the particle paths in solitary water waves*, Quart. Appl. Math. 68 (2010), no. 1, 81–90.
72. A. Constantin, *On Nagumo's theorem*, Proc. Japan Acad. Ser. A Math. Sci. 86 (2010), no. 2, 41–44.
73. A. Constantin, *On the relevance of soliton theory to tsunami modelling*, Wave Motion 46 (2009), no. 6, 420–426.
74. A. Constantin and M. Wunsch, *On the inviscid Proudman-Johnson equation*, Proc. Japan Acad. Ser. A Math. Sci. 85 (2009), no. 7, 81–83.
75. A. Constantin, *On the propagation of tsunami waves, with emphasis on the tsunami of 2004*, Discrete Contin. Dyn. Syst. Ser. B 12 (2009), no. 3, 525–537.
76. A. Constantin and D. Lannes, *The hydrodynamical relevance of the Camassa-Holm and Degasperis-Procesi equations*, Arch. Ration. Mech. Anal. 192 (2009), no. 1, 165–186.
77. A. Constantin and R. I. Ivanov, *On an integrable two-component Camassa-Holm shallow water system*, Phys. Lett. A 372 (2008), no. 48, 7129–7132.
78. A. Constantin and R. S. Johnson, *On the non-dimensionalisation, scaling and resulting interpretation of the classical governing equations for water waves*, J. Nonlinear Math. Phys. 15 (2008), suppl. 2, 58–73.
79. A. Constantin, M. Ehrnström, and G. Villari, *Particle trajectories in linear deep-water waves*, Nonlinear Anal. Real World Appl. 9 (2008), no. 4, 1336–1344.
80. A. Constantin, R. I. Ivanov, and E. M. Prodanov, *Nearly-Hamiltonian structure for water waves with constant vorticity*, J. Math. Fluid Mech. 10 (2008), no. 2, 224–237.
81. A. Constantin and G. Villari, *Particle trajectories in linear water waves*, J. Math. Fluid Mech. 10 (2008), no. 1, 1–18.
82. A. Constantin and R. S. Johnson, *Propagation of very long water waves, with vorticity, over variable depth, with applications to tsunamis*, Fluid Dynam. Res. 40 (2008), no. 3, 175–211.
83. A. Constantin, M. Ehrnström, and E. Wahlen, *Symmetry of steady periodic gravity water waves with vorticity*, Duke Math. J. 140 (2007), no. 3, 591–603.
84. A. Constantin, V. S. Gerdjikov, and R. I. Ivanov, *Generalized Fourier transform for the Camassa-Holm hierarchy*, Inverse Problems 23 (2007), no. 4, 1565–1597.
85. A. Constantin, *Solitons from the Lagrangian perspective*, Discrete Contin. Dyn. Syst. 19 (2007), no. 3, 469–481.
86. A. Constantin and W. Strauss, *Rotational steady water waves near stagnation*, Philos. Trans. R. Soc. Lond. Ser. A Math. Phys. Eng. Sci. 365 (2007), no. 1858, 2227–2239.
87. A. Constantin, T. Kappeler, B. Kolev, and P. Topalov, *On geodesic exponential maps of the Virasoro group*, Ann. Global Anal. Geom. 31 (2007), no. 2, 155–180.
88. A. Constantin and J. Escher, *Particle trajectories in solitary water waves*, Bull. Amer. Math. Soc. (N.S.) 44 (2007), no. 3, 423–431.
89. A. Constantin and W. Strauss, *Stability properties of steady water waves with vorticity*, Comm. Pure Appl. Math. 60 (2007), no. 6, 911–950.
90. A. Bressan and A. Constantin, *Global dissipative solutions of the Camassa-Holm equation*, Anal. Appl. (Singap.) 5 (2007), no. 1, 1–27.
91. A. Bressan and A. Constantin, *Global conservative solutions of the Camassa-Holm equation*, Arch. Ration. Mech. Anal. 183 (2007), no. 2, 215–239.
92. A. Constantin, V. S. Gerdjikov, and R. I. Ivanov, *Inverse scattering transform for the Camassa-Holm equation*, Inverse Problems 22 (2006), no. 6, 2197–2207.
93. A. Constantin, D. Sattinger, and W. Strauss, *Variational formulations for steady water waves with vorticity*, J. Fluid Mech. 548 (2006), 151–163.

94. A. Constantin, *The trajectories of particles in Stokes waves*, Invent. Math. 166 (2006), no. 3, 523–535.
95. A. Constantin and R. I. Ivanov, *Poisson structure and action-angle variables for the Camassa-Holm equation*, Lett. Math. Phys. 76 (2006), no. 1, 93–108.
96. A. Constantin and B. Kolev, *Integrability of invariant metrics on the diffeomorphism group of the circle*, J. Nonlinear Sci. 16 (2006), no. 2, 109–122.
97. A. Constantin and J. Escher, *Global existence for fully parabolic boundary value problems*, NoDEA Nonlinear Differential Equations Appl. 13 (2006), no. 1, 91–118.
98. A. Constantin, B. Kolev, and J. Lenells, *Integrability of invariant metrics on the Virasoro group*, Phys. Lett. A 350 (2006), no. 1-2, 75–80.
99. A. Bressan and A. Constantin, *Global solutions of the Hunter-Saxton equation*, SIAM J. Math. Anal. 37 (2005), no. 3, 996–1026.
100. A. Constantin, *Global existence for parabolic systems by Lyapunov functions*, NoDEA Nonlinear Differential Equations Appl. 12 (2005), no. 3, 383–389.
101. A. Constantin, *On the existence of positive solutions of second order differential equations*, Ann. Mat. Pura Appl. (4) 184 (2005), no. 2, 131–138.
102. A. Constantin, *Finite propagation speed for the Camassa-Holm equation*, J. Math. Phys. 46 (2005), 023506, 4 pp.
103. A. Constantin, *A Hamiltonian formulation for free surface water waves with non-vanishing vorticity*, J. Nonlinear Math. Phys. 12 (2005), suppl. 1, 202–211.
104. A. Constantin and J. Escher, *Symmetry of steady periodic surface water waves with vorticity*, J. Fluid Mech. 498 (2004), 171–181.
105. A. Constantin and J. Escher, *Symmetry of steady deep-water waves with vorticity*, European J. Appl. Math. 15 (2004), no. 6, 755–768.
106. A. Constantin, J. Escher, and Z. Yin, *Global solutions for quasilinear parabolic systems*, J. Differential Equations 197 (2004), no. 1, 73–84.
107. A. Constantin and W. Strauss, *Exact steady periodic water waves with vorticity*, Comm. Pure Appl. Math. 57 (2004), no. 4, 481–527.
108. A. Constantin, *Comment on “Steep sharp-crested gravity waves on deep water”*, Phys. Rev. Lett. 93 (2014), 069402.
109. A. Constantin and B. Kolev, *Geodesic flow on the diffeomorphism group of the circle*, Comment. Math. Helv. 78 (2003), no. 4, 787–804.
110. A. Constantin and B. Kolev, *H^k -metrics on the diffeomorphism group of the circle*, J. Nonlinear Math. Phys. 10 (2003), no. 4, 424–430.
111. A. Constantin and J. Lenells, *On the inverse scattering approach to the Camassa-Holm equation*, J. Nonlinear Math. Phys. 10 (2003), no. 3, 252–255.
112. A. Constantin and J. Lenells, *On the inverse scattering approach for an integrable shallow water wave equation*, Phys. Lett. A 308 (2003), no. 5-6, 432–436.
113. A. Constantin and W. Strauss, *Exact periodic traveling water waves with vorticity*, C. R. Math. Acad. Sci. Paris 335 (2002), no. 10, 797–800.
114. A. Constantin and B. Kolev, *On the geometric approach to the motion of inertial mechanical systems*, J. Phys. A 35 (2002), no. 32, R51–R79.
115. A. Constantin and L. Molinet, *The initial value problem for a generalized Boussinesq equation*, Differential Integral Equations 15 (2002), no. 9, 1061–1072.
116. A. Constantin and W. Strauss, *Stability of the Camassa-Holm solitons*, J. Nonlinear Sci. 12 (2002), no. 4, 415–422.
117. A. Constantin and J. Escher, *Global solutions for quasilinear parabolic problems*, J. Evol. Equ. 2 (2002), no. 1, 97–111.
118. A. Constantin, *Edge waves along a sloping beach*, J. Phys. A 34 (2001), no. 45, 9723–9731.
119. A. Constantin, *On the scattering problem for the Camassa-Holm equation*, R. Soc. Lond. Proc. Ser. A Math. Phys. Eng. Sci. 457 (2001), no. 2008, 953–970.
120. A. Constantin and L. Molinet, *Orbital stability of solitary waves for a shallow water equation*, Phys. D 157 (2001), no. 1-2, 75–89.
121. A. Constantin, *A Lagrangian approximation to the water-wave problem*, Appl. Math. Lett. 14 (2001), no. 7, 789–795.
122. A. Constantin, *The construction of an evolution system in the hyperbolic case and applications*, Math. Nachr. 224 (2001), 49–73.
123. A. Constantin, *On the deep water wave motion*, J. Phys. A 34 (2001), no. 7, 1405–1417.
124. A. Constantin and S. Peszat, *Global existence of solutions of semilinear parabolic evolution equations*, Differential Integral Equations 13 (2000), no. 1-3, 99–114.
125. A. Constantin, *Existence of permanent and breaking waves for a shallow water equation: a geometric approach*, Ann. Inst. Fourier (Grenoble) 50 (2000), no. 2, 321–362.
126. A. Constantin and G. Villari, *Positive solutions of quasilinear elliptic equations in two-dimensional exterior domains*, Nonlinear Anal. 42 (2000), no. 2, Ser. A: Theory Methods, 243–250.

127. A. Constantin, *A note on a second-order nonlinear differential system*, Glasg. Math. J. 42 (2000), no. 2, 195–199.
128. A. Constantin and W. Strauss, *Stability of a class of solitary waves in compressible elastic rods*, Phys. Lett. A 270 (2000), no. 3-4, 140–148.
129. A. Constantin and L. Molinet, *Global weak solutions for a shallow water equation*, Comm. Math. Phys. 211 (2000), no. 1, 45–61.
130. A. Constantin, *On the blow-up of solutions of a periodic shallow water equation*, J. Nonlinear Sci. 10 (2000), no. 3, 391–399.
131. A. Constantin and J. Escher, *On the blow-up rate and the blow-up set of breaking waves for a shallow water equation*, Math. Z. 233 (2000), no. 1, 75–91.
132. A. Constantin and W. Strauss, *Stability of peakons*, Comm. Pure Appl. Math. 53 (2000), no. 5, 603–610.
133. A. Constantin, *On an infinite interval boundary value problem*, Ann. Mat. Pura Appl. (4) 176 (1999), 379–394.
134. A. Constantin, *Nonlinear alternative: application to an integral equation*, J. Appl. Anal. 5 (1999), no. 1, 119–123.
135. A. Constantin and H. P. McKean, *A shallow water equation on the circle*, Comm. Pure Appl. Math. 52 (1999), no. 8, 949–982.
136. A. Constantin and J. Escher, *Global weak solutions for a shallow water equation*, Indiana Univ. Math. J. 47 (1998), no. 4, 1527–1545.
137. A. Constantin and J. Escher, *Wave breaking for nonlinear nonlocal shallow water equations*, Acta Math. 181 (1998), no. 2, 229–243.
138. A. Constantin and J. Escher, *On the structure of a family of quasilinear equations arising in shallow water theory*, Math. Ann. 312 (1998), no. 3, 403–416.
139. A. Constantin, *Quasi-periodicity with respect to time of spatially periodic finite-gap solutions of the Camassa-Holm equation*, Bull. Sci. Math. 122 (1998), no. 7, 487–494.
140. A. Constantin and J. Escher, *On the Cauchy problem for a family of quasilinear hyperbolic equations*, Comm. Partial Differential Equations 23 (1998), no. 7-8, 1449–1458.
141. A. Constantin and J. Escher, *Global existence and blow-up for a shallow water equation*, Ann. Scuola Norm. Sup. Pisa Cl. Sci. (4) 26 (1998), no. 2, 303–328.
142. A. Constantin, *On the inverse spectral problem for the Camassa-Holm equation*, J. Funct. Anal. 155 (1998), no. 2, 352–363.
143. A. Constantin, *On the pathwise uniqueness of solutions of stochastic differential equations*, Stochastic Anal. Appl. 16 (1998), no. 2, 231–232.
144. A. Constantin, *On the existence and uniqueness of solutions of McShane type stochastic differential equations*, Stochastic Anal. Appl. 16 (1998), no. 2, 217–229.
145. A. Constantin and J. Escher, *Well-posedness, global existence, and blowup phenomena for a periodic quasi-linear hyperbolic equation*, Comm. Pure Appl. Math. 51 (1998), no. 5, 475–504.
146. A. Constantin, *A general-weighted Sturm-Liouville problem*, Ann. Scuola Norm. Sup. Pisa Cl. Sci. (4) 24 (1997), no. 4, 767–782 (1998).
147. A. Constantin, *On the Cauchy problem for the periodic Camassa-Holm equation*, J. Differential Equations 141 (1997), no. 2, 218–235.
148. A. Constantin, *Ein Differentialsystem in der Modellierung der Sonnenkollektoren*, Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. 8 (1997), 9–15.
149. A. Constantin, *Positive solutions of quasilinear elliptic equations*, J. Math. Anal. Appl. 213 (1997), no. 1, 334–339.
150. A. Constantin, *A note on the uniqueness of solutions of ordinary differential equations*, Appl. Anal. 64 (1997), no. 3-4, 273–276.
151. A. Constantin, *Soliton interactions for the Camassa-Holm equation*, Exposition. Math. 15 (1997), no. 3, 251–264.
152. A. Constantin, *On the spectral problem for the periodic Camassa-Holm equation*, J. Math. Anal. Appl. 210 (1997), no. 1, 215–230.
153. A. Constantin, *On the approximation of solutions for nonlinear random equations*, Atti Sem. Mat. Fis. Univ. Modena 45 (1997), no. 1, 53–61.
154. A. Constantin, *Study of a stochastic integral equation using integral contractors*, Demonstratio Math. 30 (1997), no. 1, 71–83.
155. A. Constantin, *The Hamiltonian structure of the Camassa-Holm equation*, Exposition. Math. 15 (1997), no. 1, 53–85.
156. A. Constantin, *On a stability theorem of Liapunov*, Arch. Math. (Basel) 68 (1997), no. 4, 297–299.
157. A. Constantin, *Positive solutions of Schrödinger equations in two-dimensional exterior domains*, Monatsh. Math. 123 (1997), no. 2, 121–126.
158. A. Constantin, *Monotone iterative technique for a nonlinear integral equation*, J. Math. Anal. Appl. 205 (1997), no. 1, 280–283.
159. A. Constantin, *On the oscillation of solutions of the Liénard equation*, J. Math. Anal. Appl. 205 (1997), no. 1, 207–215.
160. A. Constantin, *On a boundary value problem*, Ann. Univ. Ferrara Sez. VII (N.S.) 42 (1996), 51–56.

161. A. Constantin, *On the unicity of solutions for high-order differential equations*, Istit. Lombardo Accad. Sci. Lett. Rend. A 130 (1996), no. 1-2, 171–181.
162. A. Constantin, *Sur l'existence des ondes solitaires dans des problèmes du type Klein-Gordon*, Rend. Sem. Mat. Univ. Politec. Torino 54 (1996), no. 2, 163–166.
163. A. Constantin, *On the global existence of solutions of differential inclusions*, Rend. Sem. Fac. Sci. Univ. Cagliari 66 (1996), no. 1, 1–29.
164. A. Constantin, *Sur un problème aux limites de la théorie du transfert de masse et de chaleur*, Ann. Math. Blaise Pascal 3 (1996), no. 2, 63–66.
165. A. Constantin, *A note on the Emden-Fowler equation*, Nonlinear World 3 (1996), no. 3, 277–279.
166. A. Constantin, *Existence of positive solutions of quasilinear elliptic equations*, Bull. Austral. Math. Soc. 54 (1996), no. 1, 147–154.
167. A. Constantin, *On the existence and pathwise uniqueness of solutions of stochastic differential equations*, Stochastics Stochastics Rep. 56 (1996), no. 3-4, 227–239.
168. A. Constantin, *A note on a boundary value problem*, Nonlinear Anal. 27 (1996), no. 1, 13–16.
169. A. Constantin, *Critical values of differentiable maps*, Exposition. Math. 14 (1996), no. 1, 93–95.
170. A. Constantin, *Topological transversality: application to an integrodifferential equation*, J. Math. Anal. Appl. 197 (1996), no. 3, 855–863.
171. A. Constantin, *On the boundedness of solutions of nonlinear differential equations in Hilbert spaces*, Ann. Univ. Ferrara Sez. VII 41 (1995), 1–4 (1997).
172. A. Constantin, *A random integral equation with applications*, Indian J. Math. 37 (1995), no. 2, 151–163 (1996).
173. A. Constantin, *On a non-linear stochastic integral equation*, Ganita 46 (1995), no. 1-2, 111–117.
174. A. Constantin, *Global existence of solutions for perturbed differential equations*, Ann. Mat. Pura Appl. (4) 168 (1995), 237–299.
175. A. Constantin, *A backward stochastic differential equation with non-Lipschitz coefficients*, C. R. Math. Rep. Acad. Sci. Canada 17 (1995), no. 6, 280–282.
176. A. Constantin, *Positive solutions of elliptic equations in two-dimensional exterior domains*, Portugal. Math. 52 (1995), no. 4, 471–474.
177. A. Constantin, *Solutions globales d'équations différentielles perturbées*, C. R. Acad. Sci. Paris 320 (1995), no. 11, 1319–1322.
178. A. Constantin, *Sur un problème aux limites en mécanique non linéaire*, C. R. Acad. Sci. Paris 320 (1995), no. 12, 1465–1468.
179. A. Constantin, *On a two-point boundary value problem*, J. Math. Anal. Appl. 193 (1995), no. 1, 318–328.
180. A. Constantin, *On the existence of standing waves for the nonlinear Schrödinger equation*, C. R. Math. Rep. Acad. Sci. Canada 17 (1995), no. 1, 22–24.
181. A. Constantin, *An oscillation theorem for Schrödinger equations*, Note Mat. 14 (1994), no. 2, 229–236.
182. A. Constantin, *On some fixed point theorems in metric spaces*, Zb. Rad. Prirod.-Mat. Fak. Ser. Mat. 24 (1994), no. 2, 9–21.
183. A. Constantin, *A unified approach for some fixed point theorems*, Indian J. Math. 36 (1994), no. 2, 91–101.
184. A. Constantin, *On a Hadzic's common fixed point theorem in 2-metric spaces*, Zb. Rad. Prirod.-Mat. Fak. Ser. Mat. 24 (1994), no. 1, 13–21.
185. A. Constantin, *On the approximation of fixed points of operators*, Bull. Calcutta Math. Soc. 86 (1994), no. 4, 323–326.
186. A. Constantin, *On positive solutions of Emden-Fowler equations*, C. R. Math. Rep. Acad. Sci. Canada 16 (1994), no. 6, 268–270.
187. A. Constantin and B. Kolev, *The theorem of Kerekjarto on periodic homeomorphisms of the disc and the sphere*, Enseign. Math. (2) 40 (1994), no. 3-4, 193–204.
188. A. Constantin, *Stability of solution sets of differential equations with multivalued right-hand side*, J. Differential Equations 114 (1994), no. 1, 243–252.
189. A. Constantin, *On some fixed point theorems on expansion mappings*, Publ. Math. Debrecen 44 (1994), no. 3-4, 269–274.
190. A. Constantin, *On the existence, uniqueness and parametric dependence on the coefficients of the solution processes in McShane's stochastic integral equations*, Publ. Mat. 38 (1994), no. 1, 11–24.
191. A. Constantin, *A random fixed point theorem for multifunctions*, Stochastic Anal. Appl. 12 (1994), no. 1, 65–73.
192. A. Constantin, *On the asymptotic behavior of second order nonlinear differential equations*, Rend. Mat. Appl. (7) 13 (1993), no. 4, 627–634 (1994).
193. A. Constantin, *On the unicity of solutions for the differential equation $x^{(n)}(t) = f(t, x)$* , Rend. Circ. Mat. Palermo (2) 42 (1993), no. 1, 59–64.
194. A. Constantin, *On the global inversion of analytic functions*, Rev. Roumaine Math. Pures Appl. 39 (1994), no. 7, 629–633.

195. A. Constantin, *Sur les points fixes communs de deux applications*, An. Univ. Timisoara 30 (1992), no. 1, 3–8.
196. A. Constantin, *Asymptotic properties of solutions of differential equations*, An. Univ. Timisoara 30 (1992), no. 2-3, 183–225 (1993).
197. A. Constantin, *On fixed points in noncomplete metric spaces*, Publ. Math. Debrecen 40 (1992), no. 3-4, 297–302.
198. A. Constantin, *On pointwise estimates for solutions of Volterra integral equations*, Boll. Un. Mat. Ital. A (7) 6 (1992), no. 2, 215–225.
199. A. Constantin, *A note on the φ -stability for differential systems*, Boll. Un. Mat. Ital. A (7) 6 (1992), no. 2, 233–243.
200. A. Constantin, *On the stability of solution sets for operational differential inclusions*, An. Univ. Timisoara 29 (1991), no. 2-3, 115–124.
201. A. Constantin, *On the approximation of solutions for random operator equations* An. Univ. Timisoara 29 (1991), no. 2-3, 125–136.
202. A. Constantin, *Common fixed points of weakly commuting mappings in 2-metric spaces*, Math. Japon. 36 (1991), no. 3, 507–514.
203. A. Constantin, *Coincidence point theorems for multivalued contraction mappings*, Math. Japon. 36 (1991), no. 5, 925–933.
204. A. Constantin, *Some observations on a Conti's result*, Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. Rend. Lincei (9) Mat. Appl. 2 (1991), no. 2, 137–145.
205. A. Constantin, *A Gronwall-like inequality and its applications*, Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. Rend. Lincei (9) Mat. Appl. 1 (1990), no. 2, 111–115.

Miscellaneous publications (conference proceedings, book chapters, surveys)

1. A. Constantin, *Equatorial wave-current interactions*, Waves in flows, pp. 49–92, Adv. Math. Fluid Mech., Birkhäuser/Springer, Cham, 2021.
2. A. Constantin and R. S. Johnson, *On the rôle of nonlinearity in geostrophic ocean flows on a sphere*, Nonlinear systems and their remarkable mathematical structures. Vol. 1, pp. 500–519, CRC Press, Boca Raton, FL, 2019.
3. A. Constantin, *Exact travelling periodic water waves in two-dimensional irrotational flows*, Nonlinear water waves, pp. 1–82, Lecture Notes in Math., 2158, Springer, Cham, 2016.
4. A. Constantin, *Some mathematical aspects of water waves*, European Congress of Mathematics, pp. 1–12, Eur. Math. Soc., Zürich, 2013.
5. A. Constantin and B. Kolev, *On the geometry of the diffeomorphism group of the circle*, Number theory, analysis and geometry, pp. 143–160, Springer, New York, 2012.
6. A. Constantin and R. I. Ivanov, *The Camassa-Holm equation as a geodesic flow for the right-invariant metric*, Topics in contemporary differential geometry, complex analysis and mathematical physics, pp. 33–41, World Sci. Publ., Hackensack, NJ, 2007.
7. A. Constantin and J. Escher, *Zur mathematischen Modellierung von Tsunamis*, Mitt. DMV 15 (2007), 118–121.
8. A. Constantin and R. S. Johnson, *Modelling tsunamis*, J. Phys. A 39 (2006), no. 14, L215–L217.
9. A. Constantin, *Wave-current interactions*, EQUADIFF 2003, pp. 207–212, World Sci. Publ., Hackensack, NJ, 2005.
10. A. Constantin, *Geometrical methods in hydrodynamics*, Journées “Équations aux Dérivées Partielles” (Plestin-les-Grèves, 2001), Exp. No. II, 14 pp., Univ. Nantes, Nantes, 2001.
11. A. Constantin and B. Kolev, *Least action principle for an integrable shallow water equation*, J. Nonlinear Math. Phys. 8 (2001), no. 4, 471–474.
12. A. Constantin, *Some existence results for nonlinear integral equations*, Qualitative problems for differential equations and control theory, pp. 105–111, World Sci. Publ., River Edge, NJ, 1995.