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LIST OF PUBLICATIONS

(last modified in March, 2021)

RESEARCH PAPERS

1. Anosov endomorphisms. *Studia Math.* 58.3 (1976), 249–285.
2. On Ω -stability and structural stability of endomorphisms satisfying Axiom A. *Studia Mathematica* 60.1 (1977), 61–77.
3. On hyperbolic endomorphisms. Collection: VII. Internationale Konferenz über Nichtlineare Schwingungen (Berlin, 1975), Band I, Teil 2, pp. 159–161.
4. Entropy conjecture for tori. Co-author M. Misiurewicz. *Bull. Acad. Polon. Sci. Ser. Sci. Math. Astronom. Phys.* 25.6 (1977), 575–578.
5. Topological entropy and degree of smooth mappings. Co-author M. Misiurewicz. *Bull. Acad. Polon. Sci. Ser. Sci. Math. Astronom. Phys.* 25.6 (1977), 573–574.
6. On local models of k -tuples of vector fields. Co-author B. Jakubczyk. Collection: *Dynamical systems, Vol. I—Warsaw*, pp. 97–108. *Asterisque*, No. 49 (1977)
7. On J. Martinet’s conjecture. Co-author B. Jakubczyk. *L’Academie Polonaise des Sciences. Bulletin. Serie des Sciences Mathematiques* 27.9 (1979), 731–735.
8. Construction of invariant sets for Anosov diffeomorphisms and hyperbolic attractors. *Studia Mathematica* 68.2 (1980), 199–213.
9. An upper estimation for topological entropy of diffeomorphisms. *Inventiones Mathematicae* 59.3 (1980), 205–213.
10. Examples of conservative diffeomorphisms of the two-dimensional torus with coexistence of elliptic and stochastic behaviour. *Ergodic Theory and Dynamical Systems* 2, no. 3-4 (1982), 439–463.
11. Ergodicity of toral linked twist mappings. *Annales Scientifiques de l’Ecole Normale Superieure. Quatrieme Serie* 16.3 (1983), 345–354.
12. Singularities of k -tuples of vector fields. Co-author B. Jakubczyk. *Dissertationes Mathematicae (Rozprawy Matematyczne)* 213 (1984), 64 pp.
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14. Riemann map and holomorphic dynamics. *Inventiones Mathematicae* 85.3 (1986), 439–455.
15. Periodic points of linked twist mappings. *Studia Mathematica* 83.1 (1986), 1–18.
16. On holomorphic perturbations of $z \rightarrow z^n$. *Bulletin of the Polish Academy of Sciences. Mathematics* 34. no. 3-4 (1986), 127–132.
17. Chaos after bifurcation of a Morse-Smale diffeomorphism through a one-cycle saddle-node and iterations of multivalued mappings of an interval and a circle. *Boletim da Sociedade Brasileira de Matematica* 18.1 (1987), 29–79.
18. On the Hausdorff dimension of some fractal sets. Co-author M. Urbański. *Studia Mathematica* 93 (1989), 155–186.

19. The conjugacy of Collet – Eckmann’s map of the interval with the tent map is Hölder continuous. Co-author T. Nowicki. *Ergodic Theory and Dynamical Systems* 9 (1989), 379–388.
20. Harmonic, Gibbs and Hausdorff measures on repellers for holomorphic maps. I. Co-authors: M. Urbański, A. Zdunik. *Annals of Mathematics* 130.1 (1989), 1–40.
21. On the law of iterated logarithm for Bloch functions. *Studia Mathematica* 93.2 (1989), 145–154.
22. Remarks on the simple connectedness of basins of sinks for iterations of rational maps. Collection: *Dynamical systems and ergodic theory*, Warsaw, 1986, Banach Center Publ., 23, PWN, Warsaw (1989), 229–235.
23. On the iteration of Misiurewicz’s rational maps on the Riemann sphere. Co-authors P. Grzegorzczak, W. Szlenk. *Ann. Inst. H. Poincaré, Physique théorique* 53.4 (1990), 431–444.
24. On the Perron-Frobenius-Ruelle operator for rational maps on the Riemann sphere and for Hölder continuous functions. *Boletim da Sociedade Brasileira de Matemática. Nova Serie* 20.2 (1990), 95–125.
25. Convergence and pre-images of limit points for coding trees for iterations of holomorphic maps. Co-author J. Skrzypczak. *Mathematische Annalen* 290.3 (1991), 425–440.
26. Harmonic, Gibbs and Hausdorff measures on repellers for holomorphic maps. II. Co-authors M. Urbański, A. Zdunik. *Studia Mathematica* 97.3 (1991), 189–225.
27. Entropie de l’image inverse d’une application. Co-author R. Langevin. *Bulletin de la Société Mathématique de France* 120.2 (1992), 237–250.
28. Lyapunov characteristic exponents are nonnegative. *Proceedings of the American Mathematical Society* 119.1 (1993), 309–317.
29. Accessibility of typical points for invariant measures of positive Lyapunov exponents for iterations of holomorphic maps. *Fundamenta Mathematicae* 144 (1994), 259–278.
30. Density of periodic sources in the boundary of a basin of attraction for iteration of holomorphic maps: geometric coding trees technique. Co-author A. Zdunik. *Fundamenta Mathematicae* 145 (1994), 65–77.
31. Invariant measures for iterations of holomorphic maps. In ”Linear and Complex Analysis Problem Book 3” Part II, Eds V. P. Havin, N. K. Nikolski. *Lect. Notes in Math.* 1574, Springer (1994), 450–454.
32. Iterations of rational functions: which hyperbolic components contain polynomials? *Fundamenta Mathematicae* 149 (1996), 95–118.
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34. When do two rational functions have the same Julia set ? Co-author G. Levin. *Proceedings of the American Mathematical Society*, 125.7 (1997), 2179–2190.
35. On the transfer operator for rational functions on the Riemann sphere. Co-authors: M. Denker, M. Urbański. *Ergodic Theory and Dynamical Systems* 16 (1996), 255–266.
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38. On measure and Hausdorff dimension of Julia sets for holomorphic Collet-Eckmann maps. *International conference on dynamical systems, Montevideo 1995 – a tribute to Ricardo Mañé*. Eds. F. Ledrappier, J. Lewowicz, S. Newhouse. Pitman Res. Notes in Math. series, 362. Longman 1996. 167–181.
39. Porosity of Collet-Eckmann Julia sets. Co-author S. Rohde. *Fund. Math.* 155 (1998), 189–199.
40. Topological invariance of the Collet-Eckmann property for S -unimodal maps. Co-author T. Nowicki. *Fund. Math.* 155 (1998), 33–43.
41. Conical limit sets and Poincaré exponent for iterations of rational functions. *Transactions of the AMS*, 351.5 (1999), 2081-2099.
42. Hölder implies Collet-Eckmann. *Asterisque* 261 (2000), 385-403.
43. Preimage entropy for mappings. Co-author Z. Nitecki. *International Journal of Bifurcation and Chaos* 9.9 (1999), 1815-1843.
44. Rigidity of holomorphic Collet-Eckmann repellers. Co-author S. Rohde. *Arkiv för Mat.* 37.2 (1999), 357-371.
45. Rigidity of tame rational functions. Co-author M. Urbanski. *Bulletin of the Polish Academy of Sciences, ser. Math.*, 47.2 (1999), 163-182.
46. Porosity of Julia sets of non-recurrent and parabolic Collet-Eckmann rational functions. Co-author M. Urbanski. *Annales Academiae Scientiarum Fennicae* 26 (2001), 125-154.
47. Rigidity of conformal Iterated Function Systems. Co-authors D. Mauldin, M. Urbanski. *Compositio Mathematica* 129 (2001), 273-299.
48. Equivalence and topological invariance of conditions for non-uniform hyperbolicity in iteration of rational maps. Co-authors J. Rivera-Letelier, S. Smirnov. *Inventiones Mathematicae* 151 (2003), 29-63.
49. Equality of pressures for rational functions. Co-authors J. Rivera-Letelier, S. Smirnov. *Ergodic Theory and Dynamical Systems* 23 (2004), 891-914.
50. On Hausdorff dimension of some Cantor attractors. Co-author G. Levin. *Israel Journal of Mathematics*, 149 (2005), 185-198.
51. Entropy conjecture for continuous maps of nilmanifolds. Co-author W. Marzantowicz. *Israel Journal of Mathematics* 165 (2008), 349-379.
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53. Expanding repellers in limit sets for iteration of holomorphic functions. *Fundamenta Mathematicae* 186 (2005), 85-96.
54. Statistical properties of Topological Collet-Eckmann maps. Co-author J. Rivera-Letelier. *Annales Scientifiques de l'École Normale Supérieure. 4^e série, t.40,* (2007), 135-178.
55. On the hyperbolic Hausdorff dimension of the boundary of a basin of attraction for a holomorphic map and of quasirepellers. *Bulletin of the Polish Academy of Sciences*

Mathematics, 54.1 (2006), 41-52.

56. Estimates of the topological entropy from below for continuous self-maps on some compact manifolds. Co-author W. Marzantowicz. *Discrete and Continuous Dynamical Systems, Ser.A*, 21.2 (2008), 501-512.

57. Nice inducing schemes and the thermodynamics of rational maps. Co-author: J. Rivera-Letelier. *Communications in Mathematical Physics* 301.3 (2011), 661-707.

58. Lyapunov spectrum for rational maps. Co-authors: K. Gelfert, M. Rams. *Mathematische Annalen* 348.4 (2010), 965-1004.

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61. Lyapunov spectrum for multimodal maps. Co-authors: K. Gelfert, M. Rams. *Ergod. Th. & Dynam. Sys.* 36 (2016), 1441 – 1493.

62. Geometric pressure for multimodal maps of the interval. Co-author: J. Rivera-Letelier. arXiv:1405.2443. *Memoirs of the Amer. Math. Soc.* 1246 (2019).

63. The lower Lyapunov exponent of holomorphic maps. Co-authors: Genadi Levin, Weixiao Shen. *Inventiones math.* 205 (2016), 363 – 382.

64. Geometric pressure in real and complex 1-dimensional dynamics via trees of pre-images and via spanning sets. *Monatshefte für Math.* 185.1 (2018), 133-158.

65. Thermodynamic formalism methods in one-dimensional real and complex dynamics. *Proceedings of the International Congress of Mathematicians 2018, Rio de Janeiro, Vol.2*, pp. 2081-2106

66. Thermodynamic formalism for coarse expanding dynamical systems. Co-authors T. Das, G. Tiozzo, M. Urbański, A. Zdunik. arXiv:1908.08270v3. To appear in *Comm. Math. Phys.*

67. Hausdorff and packing dimensions and measures for nonlinear transversally non-conformal thin solenoids. Co-authors R. Mohammadpour, M. Rams. arXiv:2003.08926v1.

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1. Linked twist mappings: Ergodicity. Preprint IHES/M/81/20, Institut des Hautes Études Scientifiques, 1981, 73 pages.

2. Invariant manifolds, entropy and billiards; smooth maps with singularities. Authors: A. Katok, J.-M. Strelcyn, with the collaboration of F. Ledrappier and F. Przytycki. *Lecture Notes in Mathematics*, 1222. Springer-Verlag, Berlin, 1986. viii+283.

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5. Jean-Christophe Yoccoz, medal Fieldsa, Zurych 1994. *Wiadomości Matematyczne* 31 (1995), 94-101.
6. Curtis McMullen, medal Fieldsa, Berlin 1998. *Wiadomości Matematyczne* 35 (1999), 101-112.
7. The dichotomy for the boundary of a parabolic simply-connected basin: either it is analytic or its Hausdorff dimension is bigger than 1. Notes to a future paper joint with J. Skrzypczak and A. Volberg. <http://www.impan.gov.pl/~feliksp>
8. The upper exponent can be approximated on periodic orbits. A letter to A. Eremenko, Jan. 3, 1994.
9. Równania różniczkowe zwyczajne – wykłady na Uniwersytecie Warszawskim. Available at <http://www.impan.gov.pl/~feliksp>
10. Jakościowa teoria równan różniczkowych zwyczajnych – wykłady na Uniwersytecie Warszawskim. Available at <http://www.impan.gov.pl/~feliksp>
11. Hyperbolic Hausdorff dimension is equal to the minimal exponent of conformal measure on Julia set: A simple proof. *RIMS Kyoto, Kokyuroku, Vol.1447, "Complex Dynamics"* (2005) pp. 182-186.
12. Geometric pressure for complex rational maps and multimodal maps of the interval. Co-author: J. Rivera-Letelier. *Oberwolfach Reports* 9.1 (2012) 94-96.
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