

Krzysztof Frączek

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Non-ergodic \mathbb{Z} -periodic billiards and infinite translation surfaces. <i>Inventiones Mathematicae</i> , 2014, 197, 241-298.	2.5	32
2	On mild mixing of special flows over irrational rotations under piecewise smooth functions. <i>Ergodic Theory and Dynamical Systems</i> , 2006, 26, 719.	0.6	26
3	A class of special flows over irrational rotations which is disjoint from mixing flows. <i>Ergodic Theory and Dynamical Systems</i> , 2004, 24, 1083-1095.	0.6	24
4	Ergodic automorphisms whose weak closure of off-diagonal measures consists of ergodic self-joinings. <i>Colloquium Mathematicum</i> , 2008, 110, 81-115.	0.3	24
5	On symmetric logarithm and some old examples in smooth ergodic theory. <i>Fundamenta Mathematicae</i> , 2003, 180, 241-255.	0.5	23
6	On disjointness properties of some smooth flows. <i>Fundamenta Mathematicae</i> , 2005, 185, 117-142.	0.5	19
7	Cocycles over interval exchange transformations and multivalued Hamiltonian flows. <i>Advances in Mathematics</i> , 2011, 226, 4373-4428.	1.1	18
8	Mild mixing property for special flows under piecewise constant functions. <i>Discrete and Continuous Dynamical Systems</i> , 2007, 19, 691-710.	0.9	18
9	On the self-similarity problem for ergodic flows. <i>Proceedings of the London Mathematical Society</i> , 2009, 99, 658-696.	1.3	14
10	Non-reversibility and self-joinings of higher orders for ergodic flows. <i>Journal D'Analyse Mathématique</i> , 2014, 122, 163-227.	0.8	11
11	Ergodic properties of infinite extensions of area-preserving flows. <i>Mathematische Annalen</i> , 2012, 354, 1289-1367.	1.4	9
12	Ratner's property and mild mixing for special flows over two-dimensional rotations. <i>Journal of Modern Dynamics</i> , 2010, 4, 609-635.	0.5	9
13	Circle Extensions of \mathbb{Z}^d -Rotations on the d -Dimensional Torus. <i>Journal of the London Mathematical Society</i> , 2000, 61, 139-162.	1.0	8
14	Smooth singular flows in dimension 2 with the minimal self-joining property. <i>Monatshefte Fur Mathematik</i> , 2009, 156, 11-45.	0.9	8
15	Genericity on curves and applications: pseudo-integrable billiards, Eaton lenses and gap distributions. <i>Journal of Modern Dynamics</i> , 2018, 12, 55-122.	0.5	8
16	On a function that realizes the maximal spectral type. <i>Studia Mathematica</i> , 1997, 124, 1-7.	0.7	8
17	On the Hausdorff dimension of the set of closed orbits for a cylindrical transformation. <i>Nonlinearity</i> , 2010, 23, 2393-2422.	1.4	7
18	Singularity of the Spectrum for Smooth Area-Preserving Flows in Genus Two and Translation Surfaces Well Approximated by Cylinders. <i>Communications in Mathematical Physics</i> , 2021, 381, 1369-1407.	2.2	7

#	ARTICLE	IF	CITATIONS
19	Ergodic Directions for Billiards in a Strip with Periodically Located Obstacles. Communications in Mathematical Physics, 2014, 327, 643-663.	2.2	6
20	Approximate orthogonality of powers for ergodic affine unipotent diffeomorphisms on nilmanifolds. Studia Mathematica, 2019, 244, 43-97.	0.7	6
21	On ergodicity of some cylinder flows. Fundamenta Mathematicae, 2000, 163, 117-130.	0.5	6
22	On Cocycles with Values in the Group SU(2). Monatshefte Fur Mathematik, 2000, 131, 279-307.	0.9	5
23	On the degree of cocycles with values in the group SU(2). Israel Journal of Mathematics, 2004, 139, 293-317.	0.8	5
24	Recurrence and non-ergodicity in generalized wind-tree models. Mathematische Nachrichten, 2018, 291, 1686-1711.	0.8	5
25	Density of mild mixing property for vertical flows of Abelian differentials. Proceedings of the American Mathematical Society, 2009, 137, 4129-4142.	0.8	5
26	On special flows over IETs that are not isomorphic to their inverses. Discrete and Continuous Dynamical Systems, 2015, 35, 829-855.	0.9	5
27	A note on quasi-similarity of Koopman operators. Journal of the London Mathematical Society, 2010, 82, 361-375.	1.0	4
28	On the self-similarity problem for Gaussian-Kronecker flows. Proceedings of the American Mathematical Society, 2013, 141, 4275-4291.	0.8	4
29	Directional localization of light rays in a periodic array of retro-reflector lenses. Nonlinearity, 2014, 27, 1689-1707.	1.4	4
30	ON TYPICALITY OF TRANSLATION FLOWS WHICH ARE DISJOINT WITH THEIR INVERSE. Journal of the Institute of Mathematics of Jussieu, 2020, 19, 1677-1737.	0.7	3
31	Measure-preserving diffeomorphisms of the torus. Ergodic Theory and Dynamical Systems, 2001, 21, .	0.6	2
32	On Ergodicity of Foliations on \mathbb{Z}^d -Covers of Half-Translation Surfaces and Some Applications to Periodic Systems of Eaton Lenses. Communications in Mathematical Physics, 2018, 362, 609-657.	2.2	2
33	Non-uniform ergodic properties of Hamiltonian flows with impacts. Ergodic Theory and Dynamical Systems, 0, , 1-63.	0.6	2
34	Prime number theorem for regular Toeplitz subshifts. Ergodic Theory and Dynamical Systems, 0, , 1-28.	0.6	1
35	Recurrence for smooth curves in the moduli space and an application to the billiard flow on nibbled ellipses. Analysis and PDE, 2021, 14, 793-821.	1.4	1
36	On diffeomorphisms with polynomial growth of the derivative on surfaces. Colloquium Mathematicum, 2004, 99, 75-90.	0.3	1

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37	Some examples of cocycles with simple continuous singular spectrum. <i>Studia Mathematica</i> , 2001, 146, 1-13.	0.7	1
38	Disjointness of interval exchange transformations from systems of probabilistic origin. <i>Discrete and Continuous Dynamical Systems</i> , 2010, 27, 53-73.	0.9	1
39	Polynomial growth of the derivative for diffeomorphisms on tori. <i>Discrete and Continuous Dynamical Systems</i> , 2004, 11, 489-516.	0.9	0
40	Ergodic properties of the ideal gas model for infinite billiards. <i>Physica D: Nonlinear Phenomena</i> , 2019, 390, 9-14.	2.8	0
41	Linear growth of the derivative for measure-preserving diffeomorphisms. <i>Colloquium Mathematicum</i> , 2000, 84, 147-157.	0.3	0
42	Note on the isomorphism problem for weighted unitary operators associated with a nonsingular automorphism. <i>Colloquium Mathematicum</i> , 2008, 110, 201-204.	0.3	0
43	A class of mixing special flows over two-dimensional rotations. <i>Discrete and Continuous Dynamical Systems</i> , 2015, 35, 4823-4829.	0.9	0