Bassam Fayad

List of Publications by Year
in descending order

45 papers	614 citations	567281 15 h-index	642732 23 g-index
47 all docs	47 docs citations	47 times ranked	181 citing authors

#	Article	IF	Citations
1	A Kam Scheme for SL(2, $$\mathbb{R}$$) Cocycles with Liouvillean Frequencies. Geometric and Functional Analysis, 2011, 21, 1001-1019.	1.8	91
2	Constructions in elliptic dynamics. Ergodic Theory and Dynamical Systems, 2004, 24, 1477-1520.	0.6	68
3	Hermanâ€™s last geometric theorem. Annales Scientifiques De L'Ecole Normale Superieure, 2009, 42, 193-219.	0.8	37
4	Weak mixing disc and annulus diffeomorphisms with arbitrary Liouville rotation number on the boundary. Annales Scientifiques De L'Ecole Normale Superieure, 2005, 38, 339-364.	0.8	32
5	MIXING IN THE ABSENCE OF THE SHRINKING TARGET PROPERTY. Bulletin of the London Mathematical Society, 2006, 38, 829-838.	0.8	29
6	Multiple mixing for a class of conservative surface flows. Inventiones Mathematicae, 2016, 203, 555-614.	2.5	25
7	Around the stability of KAM tori. Duke Mathematical Journal, 2015, 164, .	1.5	23
8	Polynomial decay of correlations for a class of smooth flows on the two torus. Bulletin De La Societe Mathematique De France, 2001, 129, 487-503.	0.2	23
9	Rigidity results for quasiperiodic SL(2, R)-cocycles. Journal of Modern Dynamics, 2009, 3, 479-510.	0.5	23
10	Smooth linearization of commuting circle diffeomorphisms. Annals of Mathematics, 2009, 170, 961-980.	4.2	20
11	Mixed Spectrum Reparameterizations of Linear Flows on T2. Moscow Mathematical Journal, 2001, 1, 521-537.	0.4	19
12	Unbounded Orbits for Semicircular Outer Billiard. Annales Henri Poincare, 2009, 10, 357-375.	1.7	17
13	Rank one and mixing differentiable flows. Inventiones Mathematicae, 2005, 160, 305-340.	2.5	16
14	Smooth mixing flows with purely singular spectra. Duke Mathematical Journal, 2006, 132, 371.	1.5	15
15	Dichotomies between uniform hyperbolicity and zero Lyapunov exponents for SL(2, â„) cocycles. Bulletin of the Brazilian Mathematical Society, 2006, 37, 307-349.	0.8	15
16	Superexponential Stability of Quasi-Periodic Motion in Hamiltonian Systems. Communications in Mathematical Physics, 2017, 350, 361-386.	2.2	12
17	Super-exponential stability for generic real-analytic elliptic equilibrium points. Advances in Mathematics, 2020, 366, 107088.	1.1	11
18	KAM-tori near an analytic elliptic fixed point. Regular and Chaotic Dynamics, 2013, 18, 801-831.	0.8	10

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19	Rigidity times for a weakly mixing dynamical system which are not rigidity times for any irrational rotation. Ergodic Theory and Dynamical Systems, 2015, 35, 2529-2534.	0.6	10
20	Analytic uniquely ergodic volume preserving maps on odd spheres. Commentarii Mathematici Helvetici, 2014, 89, 963-977.	0.7	10
21	Deviations of Ergodic sums for Toral Translations I. Convex bodies. Geometric and Functional Analysis, 2014, 24, 85-115.	1.8	9
22	Exponential growth of product of matrices in ${\rm SL}(2,{\mathbb{R}})$. Nonlinearity, 2008, 21, 319-323.	1.4	8
23	Nekhoroshev estimates for steep real-analytic elliptic equilibrium points. Nonlinearity, 2020, 33, 1-33.	1.4	8
24	Lebesgue spectrum of countable multiplicity for conservative flows on the torus. Journal of the American Mathematical Society, 2021, 34, 747-813.	3.9	8
25	Intertemporal Price Discrimination with Time-Varying Valuations. Operations Research, 2021, 69, 245-265.	1.9	6
26	On the Ergodicity of Cylindrical Transformations given by the Logarithm. Moscow Mathematical Journal, 2006, 6, 657-672.	0.4	6
27	Central limit theorems for simultaneous Diophantine approximations. Journal De L'Ecole Polytechnique - Mathematiques, 0, 4, 1-35.	0.0	6
28	On local rigidity of partially hyperbolic affine $\mathbb{Z}^k$ actions. Journal Fur Die Reine Und Angewandte Mathematik, 2019, 2019, 1-26.	0.9	5
29	On the convergence to 0 of $mn\xi$, mod,1. Acta Arithmetica, 2014, 165, 327-332.	0.4	5
30	Deviations of ergodic sums for toral translations II. Boxes. Publications Mathematiques De L'Institut Des Hautes Etudes Scientifiques, 2020, 132, 293-352.	4.3	4
31	Attracted by an elliptic fixed point. Asterisque, 2020, 416, 321-380.	0.4	4
32	Lyapunov unstable elliptic equilibria. Journal of the American Mathematical Society, 2023, 36, 81-106.	3.9	4
33	On manifolds supporting distributionally uniquely ergodic diffeomorphisms. Journal of Differential Geometry, 2015, 99, .	1.1	3
34	On mixing diffeomorphisms of the disc. Inventiones Mathematicae, 2020, 220, 673-714.	2.5	3
35	On the ergodicity of the Weyl sums cocycle. Acta Arithmetica, 2006, 125, 305-316.	0.4	3
36	Multiple Borel–Cantelli Lemma in dynamics and MultiLog Law for recurrence. Journal of Modern Dynamics, 2022, 18, 209.	0.5	3

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37	KAM Tori are No More than Sticky. Archive for Rational Mechanics and Analysis, 2020, 237, 1177-1211.	2.4	2
38	Continuous spectrum for a class of smooth mixing Schrödinger operators. Ergodic Theory and Dynamical Systems, 2019, 39, 357-369.	0.6	1
39	Erratic behavior for 1-dimensional random walks in a Liouville quasi-periodic environment. Electronic Journal of Probability, 2021, 26, .	1.0	1
40	Discrete and continuous spectra on laminations over Aubry-Mather sets. Discrete and Continuous Dynamical Systems, 2008, 21, 823-834.	0.9	1
41	An effective version of Katok's horseshoe theorem for conservative C^2 surface diffeomorphisms. Journal of Modern Dynamics, 2017, 11, 425-445.	0.5	1
42	Attracted by an elliptic fixed point. Asterisque, 2020, 416, 321-380.	0.4	1
43	Topological weak mixing and diffusion at all times for a class of Hamiltonian systems. Ergodic Theory and Dynamical Systems, 2022, 42, 777-791.	0.6	0
44	Realizing arbitrary d-dimensional dynamics by renormalization of C^d-perturbations of identity. Discrete and Continuous Dynamical Systems, 2021, .	0.9	0
45	Non-differentiable irrational curves for twist map. Ergodic Theory and Dynamical Systems, 2022, 42, 491-499.	0.6	0