

# John Smillie

## List of Publications by Year in descending order

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33  
papers

1,329  
citations

394421

19  
h-index

414414

32  
g-index

34  
all docs

34  
docs citations

34  
times ranked

250  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ergodicity of Billiard Flows and Quadratic Differentials. <i>Annals of Mathematics</i> , 1986, 124, 293.	4.2	213
2	Polynomial diffeomorphisms of $C^2$ : currents, equilibrium measure and hyperbolicity. <i>Inventiones Mathematicae</i> , 1991, 103, 69-99.	2.5	143
3	Polynomial diffeomorphisms of $C^2$ . IV: The measure of maximal entropy and laminar currents. <i>Inventiones Mathematicae</i> , 1993, 112, 77-125.	2.5	127
4	Hausdorff Dimension of Sets of Nonergodic Measured Foliations. <i>Annals of Mathematics</i> , 1991, 134, 455.	4.2	114
5	Polynomial diffeomorphisms of $C^2$ . <i>Mathematische Annalen</i> , 1992, 294, 395-420.	1.4	91
6	Polynomial diffeomorphisms of $\mathbb{A}^2$ . II. Stable manifolds and recurrence. <i>Journal of the American Mathematical Society</i> , 1991, 4, 657-679.	3.9	59
7	Real polynomial diffeomorphisms with maximal entropy: Tangencies. <i>Annals of Mathematics</i> , 2004, 160, 1-26.	4.2	58
8	Quadratic differentials with prescribed singularities and pseudo-Anosov diffeomorphisms. <i>Commentarii Mathematici Helvetici</i> , 1993, 68, 289-307.	0.7	51
9	The Dynamics of Rayleigh Quotient Iteration. <i>SIAM Journal on Numerical Analysis</i> , 1989, 26, 624-636.	2.3	38
10	Characterizations of lattice surfaces. <i>Inventiones Mathematicae</i> , 2010, 180, 535-557.	2.5	37
11	Minimal sets for flows on moduli space. <i>Israel Journal of Mathematics</i> , 2004, 142, 249-260.	0.8	32
12	Polynomial Diffeomorphisms of $C^2$ : VI. Connectivity of $J$ . <i>Annals of Mathematics</i> , 1998, 148, 695.	4.2	31
13	An obstruction to the existence of affine structures. <i>Inventiones Mathematicae</i> , 1981, 64, 411-415.	2.5	28
14	Polynomial diffeomorphisms of $C^2$ : VII. Hyperbolicity and external rays. <i>Annales Scientifiques De L'Ecole Normale Supérieure</i> , 1999, 32, 455-497.	0.8	28
15	A generating function for the Euler characteristic of $\text{out}(F_n)$ . <i>Journal of Pure and Applied Algebra</i> , 1987, 44, 329-348.	0.6	27
16	Polynomial diffeomorphisms of $C^2$ : V. critical points and Lyapunov exponents. <i>Journal of Geometric Analysis</i> , 1998, 8, 349.	1.0	25
17	Real polynomial diffeomorphisms with maximal entropy: II. Small Jacobian. <i>Ergodic Theory and Dynamical Systems</i> , 2006, 26, 1259.	0.6	25
18	Flat manifolds with non-zero euler characteristics. <i>Commentarii Mathematici Helvetici</i> , 1977, 52, 453-455.	0.7	22

#	ARTICLE	IF	CITATIONS
19	The entropy of polynomial diffeomorphisms of $C^2$ . Ergodic Theory and Dynamical Systems, 1990, 10, 823-827.	0.6	21
20	Polynomial Diffeomorphisms of $C^2$ . II: Stable Manifolds and Recurrence. Journal of the American Mathematical Society, 1991, 4, 657.	3.9	20
21	Polynomial diffeomorphisms of $C^2$ . VIII: quasi-expansion. American Journal of Mathematics, 2002, 124, 221-271.	1.1	19
22	Beyond Sturmian sequences: coding linear trajectories in the regular octagon. Proceedings of the London Mathematical Society, 2011, 102, 291-340.	1.3	19
23	Rayleigh quotient iteration for nonsymmetric matrices. Mathematics of Computation, 1990, 55, 169-178.	2.1	18
24	Title is missing!. Indiana University Mathematics Journal, 1991, 40, 789.	0.9	18
25	Homotopy shadowing. American Journal of Mathematics, 2010, 132, 987-1029.	1.1	11
26	Automorphisms of graphs, $p$ -subgroups of $\text{out}(F_n)$ and the Euler characteristics of $\text{Out}(F_n)$ . Journal of Pure and Applied Algebra, 1987, 49, 187-200.	0.6	10
27	Semi-parabolic Bifurcations in Complex Dimension Two. Communications in Mathematical Physics, 2017, 350, 1-29.	2.2	10
28	Rayleigh quotient iteration fails for nonsymmetric matrices. Applied Mathematics Letters, 1989, 2, 19-20.	2.7	9
29	Veech's dichotomy and the lattice property. Ergodic Theory and Dynamical Systems, 2008, 28, 1959.	0.6	8
30	A symbolic characterization of the horseshoe locus in the Hénon family. Ergodic Theory and Dynamical Systems, 2017, 37, 1389-1412.	0.6	5
31	Smale diffeomorphisms and surface topology. Ergodic Theory and Dynamical Systems, 1985, 5, 519-529.	0.6	2
32	Trends and Developments in Complex Dynamics. Oberwolfach Reports, 2009, 5, 2703-2762.	0.0	0
33	Hyperbolicity and quasi-hyperbolicity in polynomial diffeomorphisms of $C^2$ . Pure and Applied Mathematics Quarterly, 2022, 18, 5-32.	0.4	0