

# Steven R Bell

## List of Publications by Year in descending order

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35  
papers

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citations

840776

11  
h-index

794594

19  
g-index

36  
all docs

36  
docs citations

36  
times ranked

63  
citing authors

#	ARTICLE	IF	CITATIONS
1	Boundary regularity of proper holomorphic mappings. Duke Mathematical Journal, 1982, 49, 385.	1.5	64
2	Proper holomorphic mappings between circular domains. Commentarii Mathematici Helvetici, 1982, 57, 532-538.	0.7	43
3	Analytic hypoellipticity of the $\bar{\partial}$ -Neumann problem and extendability of holomorphic mappings. Acta Mathematica, 1981, 147, 109-116.	3.9	42
4	Complexity of the classical kernel functions of potential theory. Indiana University Mathematics Journal, 1995, 44, 0-0.	0.9	22
5	Non-vanishing of the Bergman kernel function at boundary points of certain domains in $\mathbb{C}^n$ . Mathematische Annalen, 1979, 244, 69-74.	1.4	19
6	A duality theorem for harmonic functions.. Michigan Mathematical Journal, 1982, 29, .	0.4	19
7	Regularity of the Bergman projection and duality of holomorphic function spaces. Mathematische Annalen, 1984, 267, 473-478.	1.4	17
8	Finitely generated function fields and complexity in potential theory in the plane. Duke Mathematical Journal, 1999, 98, 187.	1.5	16
9	Ahlfors maps, the double of a domain, and complexity in potential theory and conformal mapping. Journal D'Analyse Mathématique, 1999, 78, 329-344.	0.8	15
10	Quadrature domains and kernel function zipping. Arkiv for Matematik, 2005, 43, 271-287.	0.5	15
11	Title is missing!. Indiana University Mathematics Journal, 1990, 39, 1355.	0.9	14
12	Proper holomorphic mappings that must be rational. Transactions of the American Mathematical Society, 1984, 284, 425-425.	0.9	13
13	Density of quadrature domains in one and several complex variables. Complex Variables and Elliptic Equations, 2009, 54, 165-171.	0.8	12
14	Szegő Coordinates, Quadrature Domains, and Double Quadrature Domains. Computational Methods and Function Theory, 2011, 11, 25-44.	1.5	12
15	Unique continuation theorems for the $\bar{\partial}$ -Operator and applications. Journal of Geometric Analysis, 1993, 3, 195-224.	1.0	11
16	A representation theorem in strictly pseudoconvex domains. Illinois Journal of Mathematics, 1982, 26, .	0.1	10
17	The Bergman Kernel and Quadrature Domains in the Plane. , 2005, , 61-78.		9
18	Complexity in Complex Analysis. Advances in Mathematics, 2002, 172, 15-52.	1.1	8

#	ARTICLE	IF	CITATIONS
19	Bergman coordinates. <i>Studia Mathematica</i> , 2006, 176, 69-83.	0.7	7
20	Self-commutators of Toeplitz operators and isoperimetric inequalities. <i>Proceedings of the Royal Irish Academy</i> , 2014, 114A, 115.	0.2	5
21	Simplicity of the Bergman, Szego and Poisson kernel functions. <i>Mathematical Research Letters</i> , 1995, 2, 267-277.	0.5	5
22	Recipes for the classical kernel functions associated to a multiply connected domain in the plane. <i>Complex Variables and Elliptic Equations</i> , 1996, 29, 367-378.	0.2	4
23	Spiral Galaxy Lensing: A Model with Twist. <i>Mathematical Physics Analysis and Geometry</i> , 2014, 17, 305-322.	1.0	4
24	Mobius transformations, the Carathéodory metric, and the objects of complex analysis and potential theory in multiply connected domains. <i>Michigan Mathematical Journal</i> , 2003, 51, 351.	0.4	3
25	The Structure of the Semigroup of Proper Holomorphic Mappings of a Planar Domain to the Unit Disc. <i>Computational Methods and Function Theory</i> , 2008, 8, 225-242.	1.5	3
26	A Riemann Mapping Theorem for Two-Connected Domains in the Plane. <i>Computational Methods and Function Theory</i> , 2009, 9, 323-334.	1.5	3
27	The Dirichlet and Neumann and Dirichlet-to-Neumann problems in quadrature, double quadrature, and non-quadrature domains. <i>Analysis and Mathematical Physics</i> , 2015, 5, 113-135.	1.3	3
28	The Green's function and the Ahlfors map. <i>Indiana University Mathematics Journal</i> , 2008, 57, 3049-3064.	0.9	3
29	The Szegő Kernel and Proper Holomorphic Mappings to a Half Plane. <i>Computational Methods and Function Theory</i> , 2011, 11, 179-191.	1.5	2
30	An improved Riemann mapping theorem and complexity in potential theory. <i>Arkiv for Matematik</i> , 2013, 51, 223-249.	0.5	2
31	The adjoint of a composition operator via its action on the Szegő kernel. <i>Analysis and Mathematical Physics</i> , 2018, 8, 221-236.	1.3	1
32	The Role of the Ahlfors Mapping in the Theory of Kernel Functions in the Plane. <i>International Society for Analysis, Applications and Computation</i> , 1999, , 33-42.	0.1	1
33	Ruminations on Hejhal's theorem about the Bergman and Szegő kernels. <i>Analysis and Mathematical Physics</i> , 2022, 12, 1.	1.3	1
34	The Cauchy Integral Formula, Quadrature Domains, and Riemann Mapping Theorems. <i>Computational Methods and Function Theory</i> , 2018, 18, 661-676.	1.5	0
35	Real Algebraic Geometry of Real Algebraic Jordan Curves in the Plane and the Bergman Kernel. <i>Analysis Mathematica</i> , 0, , .	0.5	0