

# Franc Forstneric

## List of Publications by Year in descending order

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128  
papers

2,017  
citations

236612

25  
h-index

329751

37  
g-index

136  
all docs

136  
docs citations

136  
times ranked

164  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extending proper holomorphic mappings of positive codimension. Inventiones Mathematicae, 1989, 95, 31-61.	1.3	119
2	Approximation of biholomorphic mappings by automorphisms of $\mathbb{C}^n$ . Inventiones Mathematicae, 1993, 112, 323-349.	1.3	101
3	Stein Manifolds and Holomorphic Mappings. Ergebnisse Der Mathematik Und Ihrer Grenzgebiete, 2011, , .	0.3	96
4	Localization of the Kobayashi metric and the boundary continuity of proper holomorphic mappings. Mathematische Annalen, 1987, 279, 239-252.	0.7	70
5	Interpolation by holomorphic automorphisms and embeddings in $\mathbb{C}^n$ . Journal of Geometric Analysis, 1999, 9, 93-117.	0.5	58
6	Stein Manifolds and Holomorphic Mappings. Ergebnisse Der Mathematik Und Ihrer Grenzgebiete, 2017, , .	0.3	52
7	Title is missing!. Indiana University Mathematics Journal, 1988, 37, 869.	0.4	51
8	Complex tangents of real surfaces in complex surfaces. Duke Mathematical Journal, 1992, 67, 353.	0.8	49
9	Noncritical holomorphic functions on Stein manifolds. Acta Mathematica, 2003, 191, 143-189.	1.4	48
10	Bordered Riemann surfaces in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi mathvariant="double-struck"} \rangle \mathbb{C} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ . Journal Des Mathematiques Pures Et Appliquees, 2009, 91, 100-114.	0.8	43
11	Analytic disks with boundaries in a maximal real submanifold of $\mathbb{C}^2$ . Annales De L'Institut Fourier, 1987, 37, 1-44.	0.2	43
12	Holomorphic curves in complex spaces. Duke Mathematical Journal, 2007, 139, .	0.8	42
13	Embedding strictly pseudoconvex domains into balls. Transactions of the American Mathematical Society, 1986, 295, 347-347.	0.5	40
14	Oka's principle for holomorphic submersions with sprays. Mathematische Annalen, 2002, 322, 633-666.	0.7	34
15	Discs in pseudoconvex domains. Commentarii Mathematici Helvetici, 1992, 67, 129-145.	0.4	31
16	Oka's principle for holomorphic fiber bundles with sprays. Mathematische Annalen, 2000, 317, 117-154.	0.7	31
17	Null curves and directed immersions of open Riemann surfaces. Inventiones Mathematicae, 2014, 196, 733-771.	1.3	31
18	Non straightenable complex lines in $\mathbb{C}^2$ . Arkiv for Matematik, 1996, 34, 97-101.	0.2	30

#	ARTICLE	IF	CITATIONS
19	Holomorphic flexibility properties of complex manifolds. American Journal of Mathematics, 2006, 128, 239-270.	0.5	30
20	Proper holomorphic maps from balls. Duke Mathematical Journal, 1986, 53, 427.	0.8	29
21	Extending holomorphic sections from complex subvarieties. Mathematische Zeitschrift, 2001, 236, 43-68.	0.4	27
22	Mappings of quadric Cauchy-Riemann manifolds. Mathematische Annalen, 1992, 292, 163-180.	0.7	26
23	Strongly pseudoconvex domains as subvarieties of complex manifolds. American Journal of Mathematics, 2010, 132, 331-360.	0.5	26
24	Manifolds of holomorphic mappings from strongly pseudoconvex domains. Asian Journal of Mathematics, 2007, 11, 113-126.	0.3	26
25	Actions of $(\mathbb{R}, +)$ and $(\mathbb{C}, +)$ on complex manifolds. Mathematische Zeitschrift, 1996, 223, 123-153.	0.4	25
26	Approximation by automorphisms on smooth submanifolds of $\mathbb{C}^n$ . Mathematische Annalen, 1994, 300, 719-738.	0.7	23
27	Runge approximation on convex sets implies the Oka property. Annals of Mathematics, 2006, 163, 689-707.	2.1	23
28	Every bordered Riemann surface is a complete proper curve in a ball. Mathematische Annalen, 2013, 357, 1049-1070.	0.7	22
29	Embeddings of infinitely connected planar domains into $\hat{\mathbb{C}}^2$ . Analysis and PDE, 2013, 6, 499-514.	0.6	22
30	The Oka Principle for Sections of Stratified Fiber Bundles. Pure and Applied Mathematics Quarterly, 2010, 6, 843-874.	0.2	21
31	Embedding Strictly Pseudoconvex Domains Into Balls. Transactions of the American Mathematical Society, 1986, 295, 347.	0.5	20
32	Extending holomorphic mappings from subvarieties in Stein manifolds. Annales De L'Institut Fourier, 2005, 55, 733-751.	0.2	20
33	Every bordered Riemann surface is a complete conformal minimal surface bounded by Jordan curves: Figure. 5.1.. Proceedings of the London Mathematical Society, 2015, 111, 851-886.	0.6	19
34	Oka manifolds. Comptes Rendus Mathematique, 2009, 347, 1017-1020.	0.1	18
35	Holomorphic Legendrian curves. Compositio Mathematica, 2017, 153, 1945-1986.	0.5	18
36	Minimal Surfaces from a Complex Analytic Viewpoint. Springer Monographs in Mathematics, 2021, , .	0.1	18

#	ARTICLE	IF	CITATIONS
37	Holomorphic Approximation: The Legacy of Weierstrass, Runge, Oka and Weil, and Mergelyan. , 2020, , 133-192.		17
38	Actions of $(\mathbb{R}, +)$ and $(\mathbb{C}, +)$ on complex manifolds. Mathematische Zeitschrift, 1996, 223, 123-153.	0.4	17
39	Oka manifolds: From Oka to Stein and back. Annales De La Faculté Des Sciences De Toulouse, 2013, 22, 747-809.	0.3	17
40	Holomorphic submersions from Stein manifolds. Annales De L'Institut Fourier, 2004, 54, 1913-1942.	0.2	17
41	The Oka principle for multivalued sections of ramified mappings. Forum Mathematicum, 2003, 15, .	0.3	16
42	Stein structures and holomorphic mappings. Mathematische Zeitschrift, 2007, 256, 615-646.	0.4	16
43	Proper holomorphic embeddings into stein manifolds with the density property. Journal D'Analyse Mathématique, 2016, 130, 135-150.	0.4	16
44	Approximation of holomorphic mappings on strongly pseudoconvex domains. Forum Mathematicum, 2008, 20, .	0.3	15
45	The Poletsky-Rosay theorem on singular complex spaces. Indiana University Mathematics Journal, 2012, 61, 1407-1423.	0.4	15
46	Oka properties of ball complements. Mathematische Zeitschrift, 2014, 277, 325-338.	0.4	15
47	The Calabi-Yau problem, null curves, and Bryant surfaces. Mathematische Annalen, 2015, 363, 913-951.	0.7	15
48	Global holomorphic equivalence of smooth submanifolds in $\mathbb{C}^n$ . Indiana University Mathematics Journal, 1997, 46, 0-0.	0.4	15
49	Proper holomorphic discs in $\mathbb{C}^2$ . Mathematical Research Letters, 2001, 8, 257-274.	0.2	14
50	A Carleman type theorem for proper holomorphic embeddings. Arkiv for Matematik, 1997, 35, 157-169.	0.2	13
51	An interpolation theorem for holomorphic automorphisms of $\mathbb{C}^n$ . Journal of Geometric Analysis, 2000, 10, 101-108.	0.5	13
52	Stein domains in complex surfaces. Journal of Geometric Analysis, 2003, 13, 77-94.	0.5	13
53	Embedded minimal surfaces in $\mathbb{R}^n$ . Mathematische Zeitschrift, 2016, 283, 1-24.	0.4	13
54	Stein Manifolds. Ergebnisse Der Mathematik Und Ihrer Grenzgebiete, 2011, , 43-56.	0.3	13

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55	Some totally real embeddings of three-manifolds. <i>Manuscripta Mathematica</i> , 1986, 55, 1-7.	0.3	12
56	NEW COMPLEX ANALYTIC METHODS IN THE THEORY OF MINIMAL SURFACES: A SURVEY. <i>Journal of the Australian Mathematical Society</i> , 2019, 106, 287-341.	0.3	12
57	Solving the $\bar{\partial}$ - and $\overline{\text{partial}}$ -equations in thin tubes and applications to mappings. <i>Michigan Mathematical Journal</i> , 2001, 49, .	0.2	12
58	Embedding holomorphic discs through discrete sets. <i>Mathematische Annalen</i> , 1996, 305, 559-569.	0.7	11
59	Most real analytic Cauchy-Riemann manifolds are nonalgebraizable. <i>Manuscripta Mathematica</i> , 2004, 115, 489-494.	0.3	11
60	Complements of Runge domains and holomorphic hulls.. <i>Michigan Mathematical Journal</i> , 1994, 41, .	0.2	10
61	Deformations of Stein structures and extensions of holomorphic mappings. <i>Mathematical Research Letters</i> , 2007, 14, 343-357.	0.2	10
62	Equivalence of real submanifolds under volume-preserving holomorphic automorphisms of $\mathbb{C}^n$ . <i>Duke Mathematical Journal</i> , 1995, 77, 431.	0.8	9
63	Stein compacts in Levi-flat hypersurfaces. <i>Transactions of the American Mathematical Society</i> , 2008, 360, 307-330.	0.5	9
64	Polynomially convex hulls with piecewise smooth boundaries. <i>Mathematische Annalen</i> , 1986, 276, 97-104.	0.7	8
65	A theorem in complex symplectic geometry. <i>Journal of Geometric Analysis</i> , 1995, 5, 379-393.	0.5	8
66	An interpolation theorem for proper holomorphic embeddings. <i>Mathematische Annalen</i> , 2007, 338, 545-554.	0.7	8
67	Disc functionals and Siciak's Zaharyuta extremal functions on singular varieties. <i>Annales Polonici Mathematici</i> , 2012, 106, 171-191.	0.2	8
68	Holomorphic Flexibility Properties of Compact Complex Surfaces. <i>International Mathematics Research Notices</i> , 2014, 2014, 3714-3734.	0.5	8
69	Hyperbolic Complex Contact Structures on $\mathbb{C}^{2n+1}$ . <i>Journal of Geometric Analysis</i> , 2017, 27, 3166-3175.	0.5	8
70	Stability of polynomial convexity of totally real sets. <i>Proceedings of the American Mathematical Society</i> , 1986, 96, 489-489.	0.4	8
71	A reflection principle on strongly pseudoconvex domains with generic corners. <i>Mathematische Zeitschrift</i> , 1993, 213, 49-64.	0.4	7
72	Oka maps. <i>Comptes Rendus Mathematique</i> , 2010, 348, 145-148.	0.1	7

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73	Noncritical holomorphic functions on Stein spaces. Journal of the European Mathematical Society, 2016, 18, 2511-2543.	0.7	7
74	Darboux Charts Around Holomorphic Legendrian Curves and Applications. International Mathematics Research Notices, 2019, 2019, 893-922.	0.5	7
75	Holomorphic discs with dense images. Mathematical Research Letters, 2005, 12, 265-268.	0.2	7
76	One parameter automorphism groups on $\mathbb{C}^2$ . Complex Variables and Elliptic Equations, 1995, 27, 245-268.	0.2	6
77	A long $\hat{\mathbb{C}}^2$ without holomorphic functions. Analysis and PDE, 2016, 9, 2031-2050.	0.6	6
78	Stein Manifolds. Ergebnisse Der Mathematik Und Ihrer Grenzgebiete, 2017, , 45-64.	0.3	6
79	Minimal surfaces in minimally convex domains. Transactions of the American Mathematical Society, 2018, 371, 1735-1770.	0.5	6
80	Holomorphic Embeddings and Immersions of Stein Manifolds: A Survey. Springer Proceedings in Mathematics and Statistics, 2018, , 145-169.	0.1	6
81	A foliation of the ball by complete holomorphic discs. Mathematische Zeitschrift, 2020, 296, 169-174.	0.4	6
82	The Calabi–Yau Property of Superminimal Surfaces in Self-Dual Einstein Four-Manifolds. Journal of Geometric Analysis, 2021, 31, 4754-4780.	0.5	6
83	Oka properties of groups of holomorphic and algebraic automorphisms of complex affine space. Mathematical Research Letters, 2014, 21, 1047-1067.	0.2	6
84	A Totally Real Three-Sphere in $\mathbb{C}^3$ Bounding a Family of Analytic Disks. Proceedings of the American Mathematical Society, 1990, 108, 887.	0.4	5
85	Gunning–Narasimhan’s Theorem with a Growth Condition. Journal of Geometric Analysis, 2013, 23, 1078-1084.	0.5	5
86	Minimal hulls of compact sets in $\mathbb{R}^3$ . Transactions of the American Mathematical Society, 2015, 368, 7477-7506.	0.5	5
87	Proper holomorphic immersions into Stein manifolds with the density property. Journal D'Analyse Mathématique, 2019, 139, 585-596.	0.4	5
88	Invariance of the Parametric Oka Property. , 2010, , 125-144.		5
89	The parametric $h$ -principle for minimal surfaces in $\mathbb{R}^n$ and null curves in $\mathbb{C}^n$ . Communications in Analysis and Geometry, 2019, 27, 1-45.	0.2	5
90	Limits of complete holomorphic vector fields. Mathematical Research Letters, 1995, 2, 401-414.	0.2	5

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91	Holomorphic families of Fatou-Bieberbach domains and applications to Oka manifolds. Mathematical Research Letters, 2020, 27, 1697-1706.	0.2	5
92	Holomorphic families of long $\mathbb{C}^2$ -domains. Proceedings of the American Mathematical Society, 2012, 140, 2383-2389.	0.4	4
93	Fatou-Bieberbach domains in $\mathbb{C}^n \setminus \mathbb{R}^k$ . Arkiv for Matematik, 2015, 53, 259-270.	0.2	4
94	Complete densely embedded complex lines in $\mathbb{A}^2$ . Proceedings of the American Mathematical Society, 2018, 146, 1059-1067.	0.4	4
95	Holomorphic Legendrian curves in $\mathbb{A}^3$ and superminimal surfaces in $\mathbb{A}^4$ . Geometry and Topology, 2022, 25, 3507-3553.	0.5	4
96	Flows on $\mathbb{C}^2$ with polynomial time one map. Complex Variables and Elliptic Equations, 1996, 29, 363-366.	0.2	3
97	Fibrations and Stein neighborhoods. Proceedings of the American Mathematical Society, 2009, 138, 2037-2042.	0.4	3
98	New Complex Analytic Methods in the Study of Non-Orientable Minimal Surfaces in $\mathbb{A}^3$ . Memoirs of the American Mathematical Society, 2020, 264, 0-0.	0.5	3
99	Stability of Polynomial Convexity of Totally Real Sets. Proceedings of the American Mathematical Society, 1986, 96, 489.	0.4	2
100	The length of a set in the sphere whose polynomial hull contains the origin. Indagationes Mathematicae, 1992, 3, 169-172.	0.2	2
101	A Complex Surface Admitting a Strongly Plurisubharmonic Function but No Holomorphic Functions. Journal of Geometric Analysis, 2015, 25, 329-335.	0.5	2
102	On the Hodge conjecture for "complete manifolds. Geometry and Topology, 2016, 20, 353-388.	0.5	2
103	Every conformal minimal surface in $\mathbb{A}^3$ is isotopic to the real part of a holomorphic curve. Journal Fur Die Reine Und Angewandte Mathematik, 2018, 2018, 77-109.	0.4	2
104	The Oka principle for holomorphic Legendrian curves in $\mathbb{C}^{2n+1}$ . Mathematische Zeitschrift, 2018, 288, 643-663.	0.4	2
105	Every Meromorphic Function is the Gauss Map of a Conformal Minimal Surface. Journal of Geometric Analysis, 2019, 29, 3011-3038.	0.5	2
106	Runge tubes in Stein manifolds with the density property. Proceedings of the American Mathematical Society, 2019, 148, 569-575.	0.4	2
107	Every smoothly bounded $p$ -convex domain in $\mathbb{R}^n$ admits a $p$ -plurisubharmonic defining function. Bulletin Des Sciences Mathematiques, 2022, 175, 103100.	0.5	2
108	Admissible Boundary Values of Bounded Holomorphic Functions in Wedges. Transactions of the American Mathematical Society, 1992, 332, 583.	0.5	1

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109	A contractible Levi-flat hypersurface which is a determining set for pluriharmonic functions. Arkiv for Matematik, 2006, 44, 87-91.	0.2	1
110	Embeddings, Immersions and Submersions. Ergebnisse Der Mathematik Und Ihrer Grenzgebiete, 2017, , 403-476.	0.3	1
111	Null Holomorphic Curves in $\mathbb{C}^3$ and Applications to the Conformal Calabi-Yau Problem. Abel Symposia, 2015, , 101-121.	0.3	1
112	H-principle for complex contact structures on Stein manifolds. Journal of Symplectic Geometry, 2020, 18, 733-767.	0.3	1
113	A Smooth Holomorphically Convex Disc in $\mathbb{C}^2$ that is not Locally Polynomially Convex. Proceedings of the American Mathematical Society, 1992, 116, 411.	0.4	0
114	Topological Methods in Stein Geometry. Ergebnisse Der Mathematik Und Ihrer Grenzgebiete, 2017, , 477-531.	0.3	0
115	Stein Neighborhoods and Approximation. Ergebnisse Der Mathematik Und Ihrer Grenzgebiete, 2017, , 65-106.	0.3	0
116	Automorphisms of Complex Euclidean Spaces. Ergebnisse Der Mathematik Und Ihrer Grenzgebiete, 2017, , 107-203.	0.3	0
117	Oka Manifolds. Ergebnisse Der Mathematik Und Ihrer Grenzgebiete, 2017, , 207-262.	0.3	0
118	Elliptic Complex Geometry and Oka Theory. Ergebnisse Der Mathematik Und Ihrer Grenzgebiete, 2017, , 263-317.	0.3	0
119	Flexibility Properties of Complex Manifolds and Holomorphic Maps. Ergebnisse Der Mathematik Und Ihrer Grenzgebiete, 2017, , 319-349.	0.3	0
120	Applications of Oka Theory and Its Methods. Ergebnisse Der Mathematik Und Ihrer Grenzgebiete, 2017, , 353-402.	0.3	0
121	Divisors defined by noncritical functions. Proceedings of the American Mathematical Society, 2018, 146, 2985-2994.	0.4	0
122	A properly embedded holomorphic disc in the ball with finite area and dense boundary. Mathematische Annalen, 2019, 373, 719-742.	0.7	0
123	Minimal Surfaces in Minimally Convex Domains. Springer Monographs in Mathematics, 2021, , 337-378.	0.1	0
124	The Gauss Map of a Minimal Surface. Springer Monographs in Mathematics, 2021, , 233-263.	0.1	0
125	The Calabi-Yau Problem for Minimal Surfaces. Springer Monographs in Mathematics, 2021, , 295-336.	0.1	0
126	Complete Minimal Surfaces of Finite Total Curvature. Springer Monographs in Mathematics, 2021, , 191-232.	0.1	0



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127	Minimal Hulls, Null Hulls, and Currents. Springer Monographs in Mathematics, 2021, , 379-410.	0.1	0
128	The Riemannâ€Hilbert Problem for Minimal Surfaces. Springer Monographs in Mathematics, 2021, , 265-294.	0.1	0