

Matti Vuorinen

List of Publications by Year in descending order

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109
papers

1,925
citations

304602

22
h-index

289141

40
g-index

113
all docs

113
docs citations

113
times ranked

365
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized convexity and inequalities. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 335, 1294-1308.	0.5	147
2	Conformal invariants and quasiregular mappings. <i>Journal D'Analyse Mathematique</i> , 1985, 45, 69-115.	0.4	105
3	Inequalities for quasiconformal mappings in space. <i>Pacific Journal of Mathematics</i> , 1993, 160, 1-18.	0.2	98
4	Generalized Elliptic Integrals. <i>Computational Methods and Function Theory</i> , 2009, 9, 75-109.	0.8	64
5	Dimensions, Whitney covers, and tubular neighborhoods. <i>Indiana University Mathematics Journal</i> , 2013, 62, 1861-1889.	0.4	63
6	On harmonic functions and the Schwarz lemma. <i>Proceedings of the American Mathematical Society</i> , 2012, 140, 161-165.	0.4	58
7	Monotonicity Rules in Calculus. <i>American Mathematical Monthly</i> , 2006, 113, 805-816.	0.2	51
8	On generalized trigonometric functions with two parameters. <i>Journal of Approximation Theory</i> , 2012, 164, 1415-1426.	0.5	41
9	Conformally Invariant Metrics and Quasiconformal Mappings. <i>Springer Monographs in Mathematics</i> , 2020, , .	0.1	39
10	Inequalities for the generalized trigonometric and hyperbolic functions. <i>Journal of Mathematical Analysis and Applications</i> , 2014, 409, 521-529.	0.5	37
11	Quadruples and spatial quasiconformal mappings. <i>Mathematische Zeitschrift</i> , 1990, 205, 617-628.	0.4	34
12	On the existence of angular limits of n-dimensional quasiconformal mappings. <i>Arkiv for Matematik</i> , 1980, 18, 157-180.	0.2	32
13	On Moduli of Rings and Quadrilaterals: Algorithms and Experiments. <i>SIAM Journal of Scientific Computing</i> , 2011, 33, 279-302.	1.3	32
14	Radius of close-to-convexity and fully starlikeness of harmonic mappings. <i>Complex Variables and Elliptic Equations</i> , 2014, 59, 539-552.	0.4	31
15	Lipschitz conditions, triangular ratio metric, and quasiconformal maps. <i>Annales Academiae Scientiarum Fennicae Mathematica</i> , 2015, 40, 683-709.	0.7	30
16	Thick sets and quasisymmetric maps. <i>Nagoya Mathematical Journal</i> , 1994, 135, 121-148.	0.6	29
17	BMO and Injectivity of Space Quasiregular Mappings. <i>Mathematische Nachrichten</i> , 1999, 205, 149-161.	0.4	28
18	Landen Inequalities for Zero-Balanced Hypergeometric Functions. <i>Abstract and Applied Analysis</i> , 2012, 2012, 1-11.	0.3	27

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19	Some inequalities for the Poincaré metric of plane domains. <i>Mathematische Zeitschrift</i> , 2005, 250, 885-906.	0.4	24
20	The Visual Angle Metric and Möbius Transformations. <i>Computational Methods and Function Theory</i> , 2014, 14, 577-608.	0.8	24
21	Inequalities and bi-Lipschitz conditions for the triangular ratio metric. <i>Rocky Mountain Journal of Mathematics</i> , 2017, 47, .	0.2	24
22	Capacity densities and angular limits of quasiregular mappings. <i>Transactions of the American Mathematical Society</i> , 1981, 263, 343-354.	0.5	23
23	Some properties of a class of elliptic partial differential operators. <i>Journal of Mathematical Analysis and Applications</i> , 2015, 431, 1124-1137.	0.5	21
24	Functional inequalities for modified Bessel functions. , 2011, 29, 399-414.		18
25	Mori's theorem for n-dimensional quasiconformal mappings. <i>Annales Academiae Scientiarum Fennicae Series A I Mathematica</i> , 1988, 13, 111-124.	0.2	18
26	Topics in Special Functions III. , 2014, , 297-345.		17
27	The computation of capacity of planar condensers. <i>Publications De L'Institut Mathematique</i> , 2004, 75, 233-252.	0.3	17
28	Monotonicity Rules in Calculus. <i>American Mathematical Monthly</i> , 2006, 113, 805.	0.2	16
29	Quasihyperbolic metric and Möbius transformations. <i>Proceedings of the American Mathematical Society</i> , 2013, 142, 311-322.	0.4	16
30	The visual angle metric and quasiregular maps. <i>Proceedings of the American Mathematical Society</i> , 2016, 144, 4899-4912.	0.4	15
31	Robin functions and distortion theorems for regular mappings. <i>Mathematische Nachrichten</i> , 2010, 283, 1589-1602.	0.4	14
32	Some remarks on the Cassinian metric. <i>Publicationes Mathematicae</i> , 2017, 90, 269-285.	0.1	14
33	On exterior moduli of quadrilaterals and special functions. <i>Journal of Fixed Point Theory and Applications</i> , 2013, 13, 215-230.	0.6	13
34	On the stability of φ -uniform domains. <i>Monatshefte Fur Mathematik</i> , 2014, 174, 231-258.	0.5	12
35	Comparison theorems for hyperbolic type metrics. <i>Complex Variables and Elliptic Equations</i> , 2016, 61, 1464-1480.	0.4	12
36	The Ptolemy-Alhazen Problem and Spherical Mirror Reflection. <i>Computational Methods and Function Theory</i> , 2019, 19, 135-155.	0.8	12

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37	Weakly Quasisymmetric Maps and Uniform Spaces. Computational Methods and Function Theory, 2018, 18, 689-715.	0.8	11
38	Triangular ratio metric in the unit disk. Complex Variables and Elliptic Equations, 2022, 67, 1299-1325.	0.4	11
39	Turán type inequalities for generalized inverse trigonometric functions. Filomat, 2015, 29, 303-313.	0.2	11
40	On quasiregular mappings and domains with a complete conformal metric. Mathematische Zeitschrift, 1987, 194, 459-470.	0.4	10
41	Modular equations and distortion functions. Ramanujan Journal, 2009, 18, 147-169.	0.4	10
42	On conformal moduli of polygonal quadrilaterals. Israel Journal of Mathematics, 2009, 171, 111-125.	0.4	10
43	On capacity computation for symmetric polygonal condensers. Journal of Computational and Applied Mathematics, 2019, 361, 271-282.	1.1	10
44	Barrlund's distance function and quasiconformal maps. Complex Variables and Elliptic Equations, 2021, 66, 1225-1255.	0.4	10
45	Some remarks on an existence problem for degenerate elliptic systems. Proceedings of the American Mathematical Society, 2005, 133, 1451-1458.	0.4	9
46	Teichmüller's extremal ring problem. Mathematische Zeitschrift, 2006, 254, 509-529.	0.4	9
47	Ahlfors-Beurling conformal invariant and relative capacity of compact sets. Proceedings of the American Mathematical Society, 2014, 142, 3865-3879.	0.4	9
48	Geometric properties of φ -uniform domains. Journal of Analysis, 2016, 24, 57-66.	0.3	9
49	Computation of conformal invariants. Applied Mathematics and Computation, 2021, 389, 125617.	1.4	9
50	Distortion of quasiconformal mappings with identity boundary values. Journal of the London Mathematical Society, 2014, 90, 637-653.	0.5	8
51	Some Remarks on the Visual Angle Metric. Computational Methods and Function Theory, 2016, 16, 187-201.	0.8	7
52	Teichmüller's problem in space. Journal of Mathematical Analysis and Applications, 2017, 455, 1297-1316.	0.5	7
53	Characterizations of John spaces. Monatshefte Fur Mathematik, 2019, 188, 547-559.	0.5	7
54	Numerical computation of the capacity of generalized condensers. Journal of Computational and Applied Mathematics, 2020, 377, 112865.	1.1	7

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55	Conformal Modulus of the Exterior of Two Rectilinear Slits. Computational Methods and Function Theory, 2021, 21, 109-130.	0.8	7
56	Conformal modulus and planar domains with strong singularities and cusps. Electronic Transactions on Numerical Analysis, 0, 48, 462-478.	0.0	7
57	Inclusion relations of hyperbolic type metric balls II. Publicationes Mathematicae, 2013, 83, 21-42.	0.1	7
58	Triangular Ratio Metric Under Quasiconformal Mappings in Sector Domains. Computational Methods and Function Theory, 2023, 23, 269-293.	0.8	7
59	Inclusion relations of hyperbolic type metric balls. Publicationes Mathematicae, 2012, 81, 289-311.	0.1	6
60	Metrization of Weighted Graphs. Annals of Combinatorics, 2013, 17, 455-476.	0.3	6
61	LIPSCHITZ SPACES AND BOUNDED MEAN OSCILLATION OF HARMONIC MAPPINGS. Bulletin of the Australian Mathematical Society, 2013, 88, 143-157.	0.3	6
62	Conformal Invariants in Simply Connected Domains. Computational Methods and Function Theory, 2020, 20, 747-775.	0.8	6
63	Teichmüller's Theorem in Higher Dimensions and Its Applications. Computational Methods and Function Theory, 2020, 20, 539-558.	0.8	6
64	Condenser capacity and hyperbolic perimeter. Computers and Mathematics With Applications, 2022, 105, 54-74.	1.4	6
65	On quasimöbius maps in real Banach spaces. Israel Journal of Mathematics, 2013, 198, 467-486.	0.4	5
66	Hyperbolic Lambert quadrilaterals and quasiconformal mappings. Annales Academiæ Scientiarum Fennicæ Mathematica, 2013, 38, 433-453.	0.7	5
67	Apollonian metric, uniformity and Gromov hyperbolicity. Complex Variables and Elliptic Equations, 2020, 65, 215-228.	0.4	5
68	On the distortion of n -dimensional quasiconformal mappings. Proceedings of the American Mathematical Society, 1986, 96, 275-283.	0.4	5
69	On Isometries of Conformally Invariant Metrics. Journal of Geometric Analysis, 2016, 26, 914-923.	0.5	4
70	Local convexity of metric balls. Monatshefte Fur Mathematik, 2018, 186, 281-298.	0.5	4
71	Koebe arcs and quasiregular mappings. Mathematische Zeitschrift, 1985, 190, 95-106.	0.4	3
72	Generalized Wiman and Arima theorems for subharmonic functions on cones. Journal of Geometric Analysis, 2003, 13, 605-630.	0.5	3

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73	Region of Variability for Exponentially Convex Univalent Functions. Complex Analysis and Operator Theory, 2011, 5, 955-966.	0.3	3
74	On the subinvariance of uniform domains in Banach spaces. Journal of Mathematical Analysis and Applications, 2013, 407, 527-540.	0.5	3
75	FREELY QUASICONFORMAL MAPS AND DISTANCE RATIO METRIC. Journal of the Australian Mathematical Society, 2014, 97, 383-390.	0.3	3
76	On quasi-inversions. Monatshefte Fur Mathematik, 2016, 180, 785-813.	0.5	3
77	Global bifurcation and stability of steady states for a bacterial colony model with density-suppressed motility. Applied Mathematical Modelling, 2020, 88, 68-82.	2.2	3
78	Lipschitz conditions and the distance ratio metric. Filomat, 2015, 29, 2137-2146.	0.2	3
79	Lindelöf-type theorems for quasiconformal and quasiregular mappings. Banach Center Publications, 1983, 11, 353-362.	0.1	3
80	Introducing a New Intrinsic Metric. Results in Mathematics, 2022, 77, 1.	0.4	3
81	A remark on the maximal dilatation of a quasiconformal mapping. Proceedings of the American Mathematical Society, 1984, 92, 505-505.	0.4	2
82	Hypergeometric Functions and Hyperbolic Metric. Computational Methods and Function Theory, 2009, 9, 269-284.	0.8	2
83	Twice-punctured hyperbolic sphere with a conical singularity and generalized elliptic integral. Mathematische Zeitschrift, 2010, 266, 181-191.	0.4	2
84	An extremal decomposition problem for harmonic measure. Proceedings of the American Mathematical Society, 2012, 140, 2441-2446.	0.4	2
85	On Removability Properties of ψ -Uniform Domains in Banach Spaces. Complex Analysis and Operator Theory, 2017, 11, 35-55.	0.3	2
86	Conformal moduli of symmetric circular quadrilaterals with cusps. Electronic Transactions on Numerical Analysis, 0, 54, 460-482.	0.0	2
87	A new intrinsic metric and quasiregular maps. Complex Analysis and Its Synergies, 2021, 7, 1.	0.1	2
88	Isoperimetric properties of condenser capacity. Journal of Mathematical Analysis and Applications, 2021, 499, 125050.	0.5	2
89	Condenser capacity and hyperbolic diameter. Journal of Mathematical Analysis and Applications, 2022, 508, 125870.	0.5	2
90	On Picard's theorem for entire quasiregular mappings. Proceedings of the American Mathematical Society, 1989, 107, 383-394.	0.4	2

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91	On Normal Families of Quasiregular Mappings Shamil Makhmutov and Matti Vuorinen. Computational Methods and Function Theory, 2007, 7, 401-413.	0.8	1
92	On the hyperbolic distance of n-times punctured spheres. Journal D'Analyse Mathematique, 2020, 141, 663-687.	0.4	1
93	Numerical computation of Mityuk's function and radius for circular/radial slit domains. Journal of Mathematical Analysis and Applications, 2020, 490, 124328.	0.5	1
94	Remarks on the Scale-Invariant Cassinian Metric. Bulletin of the Malaysian Mathematical Sciences Society, 2021, 44, 1559-1577.	0.4	1
95	Numerical methods with Sage. Tbilisi Mathematical Journal, 2012, 5, .	0.3	1
96	Conformally invariant complete metrics. Mathematical Proceedings of the Cambridge Philosophical Society, 2023, 174, 273-300.	0.3	1
97	Trends in Classical Analysis, Geometric Function Theory, and Geometry of Conformal Invariants. Abstract and Applied Analysis, 2013, 2013, 1-1.	0.3	0
98	Intrinsic Geometry and Boundary Structure of Plane Domains. Siberian Mathematical Journal, 2021, 62, 691-706.	0.2	0
99	On John domains in Banach spaces. Filomat, 2015, 29, 315-333.	0.2	0
100	Metrics and Geometry. Springer Monographs in Mathematics, 2020, , 83-100.	0.1	0
101	Conformal Invariants. Springer Monographs in Mathematics, 2020, , 173-187.	0.1	0
102	Comparison of Metrics. Springer Monographs in Mathematics, 2020, , 209-238.	0.1	0
103	The Modulus as a Set Function. Springer Monographs in Mathematics, 2020, , 133-147.	0.1	0
104	Basic Properties of Quasiregular Mappings. Springer Monographs in Mathematics, 2020, , 281-298.	0.1	0
105	Hyperbolic Type Metrics. Springer Monographs in Mathematics, 2020, , 191-208.	0.1	0
106	A Survey of Quasiregular Mappings. Springer Monographs in Mathematics, 2020, , 7-21.	0.1	0
107	Teichmüller's Displacement Problem. Springer Monographs in Mathematics, 2020, , 347-355.	0.1	0
108	Metrics and Maps. Springer Monographs in Mathematics, 2020, , 333-345.	0.1	0

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109	The Ptolemy–Alhazen problem and quadric surface mirror reflection. Complex Variables and Elliptic Equations, 0, , 1-19.	0.4	0