John McCarthy

List of Publications by Year
in descending order

78	2,605	304743	197818
papers	citations	22	49
		h-index	g-index

82	82	82	3117
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modeling the relative risk of SARS-CoV-2 infection to inform risk-cost-benefit analyses of activities during the SARS-CoV-2 pandemic. PLoS ONE, 2021, 16, e0245381.	2.5	7
2	Symbol functions for symmetric frameworks. Journal of Mathematical Analysis and Applications, 2021, 497, 124895.	1.0	2
3	The KrzyÅ¼ Conjecture and an Entropy Conjecture. Journal D'Analyse Mathematique, 2021, 144, 207-226.	0.8	1
4	Weighted Bergman Spaces. , 2020, , 301-306.		1
5	Resolution of Murine Toxic Hepatic Injury Quantified With Ultrasound Entropy Metrics. Ultrasound in Medicine and Biology, 2019, 45, 2777-2786.	1.5	1
6	Interpolating Sequences in Spaces with the Complete Pick Property. International Mathematics Research Notices, 2019, 2019, 3832-3854.	1.0	19
7	Radially Weighted Besov Spaces and the Pick Property. Trends in Mathematics, 2019, , 29-61.	0.1	7
8	Non-commutative functional calculus. Journal D'Analyse Mathematique, 2019, 137, 211-229.	0.8	3
9	A non-commutative Julia inequality. Mathematische Annalen, 2018, 370, 423-446.	1.4	0
10	Nonâ€commutative manifolds, the free square root and symmetric functions in two nonâ€commuting variables. Transactions of the London Mathematical Society, 2018, 5, 132-183.	0.7	4
11	Wandering Montel theorems for Hilbert space valued holomorphic functions. Proceedings of the American Mathematical Society, 2018, 146, 4353-4367.	0.8	20
12	Global Holomorphic Functions in Several Non-Commuting Variables II. Canadian Mathematical Bulletin, 2018, 61, 458-463.	0.5	2
13	Factorizations induced by complete Nevanlinnaâ€"Pick factors. Advances in Mathematics, 2018, 335, 372-404.	1.1	15
14	On the Stability of BOLD fMRI Correlations. Cerebral Cortex, 2017, 27, 4719-4732.	2.9	403
15	The Smirnov class for spaces with the complete Pick property. Journal of the London Mathematical Society, 2017, 96, 228-242.	1.0	23
16	Spaces of Dirichlet series with the complete Pick property. Israel Journal of Mathematics, 2017, 220, 509-530.	0.8	8
17	The Julia-CarathÃ©odory theorem on the bidisk revisited. Acta Scientiarum Mathematicarum, 2017, 83, 165-175.	0.4	22
18	High contrast ultrasonic imaging of resin-rich regions in graphite/epoxy composites using entropy. AIP Conference Proceedings, 2016, , .	0.4	0

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19	Acoustic firearm discharge detection and classification in an enclosed environment. Journal of the Acoustical Society of America, 2016, 139, 2723-2731.	1.1	6
20	Non-commutative automorphisms of bounded non-commutative domains. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2016, 146, 1037-1045.	1.2	25
21	Tau and Aβ imaging, CSF measures, and cognition in Alzheimer's disease. Science Translational Medicine, 2016, 8, 338ra66.	12.4	560
22	Unions of Lebesgue spaces and A_1 majorants. Pacific Journal of Mathematics, 2016, 280, 411-432.	0.5	6
23	Local and distributed PiB accumulation associated with development of preclinical Alzheimer's disease. Neurobiology of Aging, 2016, 38, 104-111.	3.1	15
24	Additional results for "Joint entropy of continuously differentiable ultrasonic waveforms"[J. Acoust. Soc. Am. 133(1), 283–300 (2013)]. Journal of the Acoustical Society of America, 2015, 137, 501-501.	1.1	0
25	Non-commutative holomorphic functions on operator domains. European Journal of Mathematics, 2015, 1, 731-745.	0.5	25
26	Global Holomorphic Functions in Several Noncommuting Variables. Canadian Journal of Mathematics, 2015, 67, 241-285.	0.6	70
27	Entropy vs. Energy Waveform Processing: A Comparison Based on the Heat Equation. Entropy, 2015, 17, 3518-3551.	2.2	7
28	Pick Interpolation for free holomorphic functions. American Journal of Mathematics, 2015, 137, 1685-1701.	1.1	53
29	Partial covariance based functional connectivity computation using Ledoit–Wolf covariance regularization. NeuroImage, 2015, 121, 29-38.	4.2	39
30	The Use of Kernel Functions in Solving the Pick Interpolation Problem. , 2015, , 59-71.		1
31	Operator theory and the Oka extension theorem. Hiroshima Mathematical Journal, 2015, 45, .	0.3	26
32	The Use of Kernel Functions in Solving the Pick Interpolation Problem. , 2014, , 1-11.		0
33	Thin sequences and the Gram matrix. Archiv Der Mathematik, 2014, 103, 93-99.	0.5	5
34	Corrigendum to: Operator monotone functions and Löwner functions of several variables. Annals of Mathematics, 2014, 180, 403-405.	4.2	2
35	Unitary ?-dilations for tuples of commuting matrices. Proceedings of the American Mathematical Society, 2013, 141, 563-571.	0.8	6
36	On the Isomorphism Question for Complete Pick Multiplier Algebras. Integral Equations and Operator Theory, 2013, 76, 39-53.	0.8	13

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37	On the representation of holomorphic functions on polyhedra. Michigan Mathematical Journal, 2013, 62, .	0.4	22
38	Hankel vector moment sequences and the non-tangential regularity at infinity of two variable Pick functions. Transactions of the American Mathematical Society, 2013, 366, 1379-1411.	0.9	4
39	Joint entropy of continuously differentiable ultrasonic waveforms. Journal of the Acoustical Society of America, 2013, 133, 283-300.	1.1	14
40	The Takagi problem on the disk and bidisk. Acta Scientiarum Mathematicarum, 2013, 79, 63-78.	0.4	3
41	Operator monotone functions and LÃ¶wner functions of several variables. Annals of Mathematics, 2012, 176, 1783-1826.	4.2	63
42	A CarathÃ©odory theorem for the bidisk via Hilbert space methods. Mathematische Annalen, 2012, 352, 581-624.	1.4	44
43	Use of smoothing splines for analysis of backscattered ultrasonic waveforms: Application to monitoring of steroid treatment of dystrophic mice. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2361-2369.	3.0	8
44	Facial behaviour of analytic functions on the bidisc. Bulletin of the London Mathematical Society, 2011, 43, 478-494.	0.8	26
45	Improved signal processing to detect cancer by ultrasonic molecular imaging of targeted nanoparticles. Journal of the Acoustical Society of America, 2011, 129, 3756-3767.	1.1	9
46	Evaluation of Rootâ€n Bandwidth Selectors for Kernel Density Estimation. Journal of Wildlife Management, 2010, 74, 539-548.	1.8	17
47	Application of a real-time, calculable limiting form of the Renyi entropy for molecular imaging of tumors. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1890-1895.	3.0	7
48	What Can Hilbert Spaces Tell Us About Bounded Functions in the Bidisk?. , 2010, , 81-97.		3
49	Real-time calculation of a limiting form of the Renyi entropy applied to detection of subtle changes in scattering architecture. Journal of the Acoustical Society of America, 2009, 126, 2350-2358.	1.1	15
50	Application of Renyi entropy for ultrasonic molecular imaging. Journal of the Acoustical Society of America, 2009, 125, 3141-3145.	1.1	27
51	Properties of an entropy-based signal receiver with an application to ultrasonic molecular imaging. Journal of the Acoustical Society of America, 2007, 121, 3542.	1.1	51
52	Hyperbolic algebraic and analytic curves. Indiana University Mathematics Journal, 2007, 56, 2899-2934.	0.9	7
53	Geometric characterizations of centroids of simplices. Journal of Mathematical Analysis and Applications, 2006, 316, 87-109.	1.0	12
54	Toral algebraic sets and function theory on polydisks. Journal of Geometric Analysis, 2006, 16, 551-562.	1.0	28

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55	Enhanced Cosmetic Outcome with Running Horizontal Mattress Sutures. Dermatologic Surgery, 2005, 31, 1313-1316.	0.8	41
56	Distinguished varieties. Acta Mathematica, 2005, 194, 133-153.	3.9	88
57	Positivity aspects of the Fantappiè transform. Journal D'Analyse Mathematique, 2005, 97, 57-82.	0.8	13
58	Collagen Remodeling After 585-nm Pulsed Dye Laser Irradiation: An Ultrasonographic Analysis. Dermatologic Surgery, 2003, 29, 997-1000.	0.8	37
59	Norm preserving extensions of holomorphic functions from subvarieties of the bidisk. Annals of Mathematics, 2003, 157, 289-312.	4.2	46
60	INTERPOLATING SEQUENCES ON THE BIDISK. International Journal of Mathematics, 2001, 12, 1103-1114.	0.5	7
61	The Apical Angle: A Mathematical Analysis of the Ellipse. Dermatologic Surgery, 2001, 27, 61-63.	0.8	1
62	Complete Nevanlinna–Pick Kernels. Journal of Functional Analysis, 2000, 175, 111-124.	1.4	128
63	A note on H/sub 2/ optimal control problems with passivity constraints. IEEE Transactions on Automatic Control, 2000, 45, 286-290.	5.7	3
64	Nevanlinna-Pick interpolation on the bidisk. Journal Fur Die Reine Und Angewandte Mathematik, 1999, 1999, 191-204.	0.9	88
65	Equilibrium of highly asymmetric non-neutral plasmas. Physics of Plasmas, 1999, 6, 12-18.	1.9	12
66	Nevanlinna-Pick interpolation on the bidisk. Journal Fur Die Reine Und Angewandte Mathematik, 1999, 1999, 191-204.	0.9	7
67	Solving Poisson's equation with interior conditions. Journal of Mathematical Physics, 1998, 39, 6720-6729.	1.1	4
68	Subnormal Operators and Quadrature Domains. Advances in Mathematics, 1997, 127, 52-72.	1.1	32
69	Boundary Values and Cowen–Douglas Curvature. Journal of Functional Analysis, 1996, 137, 1-18.	1.4	8
70	Coefficient estimates on weighted Bergman spaces. Duke Mathematical Journal, 1994, 76, 751.	1.5	1
71	Reflexivity of subnormal operators. Pacific Journal of Mathematics, 1993, 161, 359-370.	0.5	9
72	Topologies on the Smirnov class. Journal of Functional Analysis, 1992, 104, 229-241.	1.4	12

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73	Geometric interpolation between Hilbert spaces. Arkiv for Matematik, 1992, 30, 321-330.	0.5	15
74	Multipliers of de Branges spaces.. Michigan Mathematical Journal, 1991, 38, 225.	0.4	16
75	Analytic structures for subnormal operators. Integral Equations and Operator Theory, 1990, 13, 251-270.	0.8	2
76	Common range of co-analytic Toeplitz operators. Journal of the American Mathematical Society, 1990, 3, 793-799.	3.9	6
77	How Often Do You Want Your Team to Win?. Mathematical Intelligencer, 0, , 1.	0.2	0
78	Operator NC functions. Canadian Mathematical Bulletin, 0, , 1-17.	0.5	0