Kit Ian Kou

List of Publications by Year
in descending order

83 papers	1,483 citations	394421 19 h-index	361022 35 g-index
83 all docs	83 docs citations	83 times ranked	529 citing authors

#	Article	IF	Citations
1	Quaternion Collaborative and Sparse Representation With Application to Color Face Recognition. IEEE Transactions on Image Processing, 2016, 25, 3287-3302.	9.8	119
2	Pitt's inequality and the uncertainty principle associated with the quaternion Fourier transform. Journal of Mathematical Analysis and Applications, 2015, 423, 681-700.	1.0	79
3	Windowed linear canonical transform and its applications. Signal Processing, 2012, 92, 179-188.	3.7	64
4	On the ensemble controllability of Boolean control networks using STP method. Applied Mathematics and Computation, 2019, 358, 51-62.	2.2	64
5	Uncertainty principles for hypercomplex signals in the linear canonical transform domains. Signal Processing, 2014, 95, 67-75.	3.7	63
6	On Uncertainty Principle for Quaternionic Linear Canonical Transform. Abstract and Applied Analysis, 2013, 2013, 1-14.	0.7	61
7	Linear Quaternion Differential Equations: Basic Theory and Fundamental Results. Studies in Applied Mathematics, 2018, 141, 3-45.	2.4	57
8	Generalized prolate spheroidal wave functions for offset linear canonical transform in Clifford analysis. Mathematical Methods in the Applied Sciences, 2013, 36, 1028-1041.	2.3	55
9	New sampling formulae for non-bandlimited signals associated with linear canonical transform and nonlinear Fourier atoms. Signal Processing, 2010, 90, 933-945.	3.7	54
10	Asymptotic behaviour of the quaternion linear canonical transform and the Bochner–Minlos theorem. Applied Mathematics and Computation, 2014, 247, 675-688.	2.2	48
11	Decomposition approach to the stability of recurrent neural networks with asynchronous time delays in quaternion field. Neural Networks, 2017, 94, 55-66.	5.9	45
12	Generalizations of Fueter's theorem. Methods and Applications of Analysis, 2002, 9, 273-290.	0.5	40
13	The Paley–Wiener Theorem in Rn with the Clifford Analysis Setting. Journal of Functional Analysis, 2002, 189, 227-241.	1.4	36
14	Paley–Wiener theorems and uncertainty principles for the windowed linear canonical transform. Mathematical Methods in the Applied Sciences, 2012, 35, 2122-2132.	2.3	36
15	Uncertainty principles associated with quaternionic linear canonical transforms. Mathematical Methods in the Applied Sciences, 2016, 39, 2722-2736.	2.3	33
16	Low-rank quaternion tensor completion for recovering color videos and images. Pattern Recognition, 2020, 107, 107505.	8.1	33
17	Laplace transform: a new approach in solving linear quaternion differential equations. Mathematical Methods in the Applied Sciences, 2018, 41, 4033-4048.	2.3	32
18	Quaternion Wigner–Ville distribution associated with the linear canonical transforms. Signal Processing, 2017, 130, 129-141.	3.7	30

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19	Color Image Recovery Using Low-Rank Quaternion Matrix Completion Algorithm. IEEE Transactions on Image Processing, 2022, 31, 190-201.	9.8	25
20	Plancherel theorem and quaternion Fourier transform for square integrable functions. Complex Variables and Elliptic Equations, 2019, 64, 223-242.	0.8	19
21	Quaternion Fourier and linear canonical inversion theorems. Mathematical Methods in the Applied Sciences, 2017, 40, 2421-2440.	2.3	18
22	Quaternion-Based Bilinear Factor Matrix Norm Minimization for Color Image Inpainting. IEEE Transactions on Signal Processing, 2020, 68, 5617-5631.	5.3	18
23	Solving Quaternion Ordinary Differential Equations with Two-Sided Coefficients. Qualitative Theory of Dynamical Systems, 2018, 17, 441-462.	1.7	17
24	Clifford-Valued Distributed Optimization Based on Recurrent Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7248-7259.	11.3	17
25	Novel uncertainty principles associated with 2D quaternion Fourier transforms. Integral Transforms and Special Functions, 2016, 27, 213-226.	1.2	16
26	Robust Sparse Representation in Quaternion Space. IEEE Transactions on Image Processing, 2021, 30, 3637-3649.	9.8	16
27	Generalized holomorphic SzegÃ¶ kernel in 3D spheroids. Computers and Mathematics With Applications, 2013, 65, 576-588.	2.7	15
28	On the inversion of Fueterâ€™s theorem. Journal of Geometry and Physics, 2016, 108, 102-116.	1.4	15
29	Generalized sampling expansions associated with quaternion Fourier transform. Mathematical Methods in the Applied Sciences, 2018, 41, 4021-4032.	2.3	15
30	From Grayscale to Color: Quaternion Linear Regression for Color Face Recognition. IEEE Access, 2019, 7, 154131-154140.	4.2	15
31	Envelope detection using generalized analytic signal in 2D QLCT domains. Multidimensional Systems and Signal Processing, 2017, 28, 1343-1366.	2.6	14
32	FFT multichannel interpolation and application to image super-resolution. Signal Processing, 2019, 162, 21-34.	3.7	14
33	Uncertainty principle for measurable sets and signal recovery in quaternion domains. Mathematical Methods in the Applied Sciences, 2017, 40, 3892-3900.	2.3	13
34	Controllability and Observability of Linear Quaternion-valued Systems. Acta Mathematica Sinica, English Series, 2020, 36, 1299-1314.	0.6	13
35	Floquet Theory for Quaternion-Valued Differential Equations. Qualitative Theory of Dynamical Systems, 2020, 19, 1.	1.7	13
36	Quaternion-based color image completion via logarithmic approximation. Information Sciences, 2022, 588, 82-105.	6.9	13

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37	Robust signal recovery using the prolate spherical wave functions and maximum correntropy criterion. Mechanical Systems and Signal Processing, 2018, 104, 279-289.	8.0	11
38	Quaternion block sparse representation for signal recovery and classification. Signal Processing, 2021, 179, 107849.	3.7	11
39	Hilbert transforms and the Cauchy integral in euclidean space. Studia Mathematica, 2009, 193, 161-187.	0.7	11
40	Weighted truncated nuclear norm regularization for low-rank quaternion matrix completion. Journal of Visual Communication and Image Representation, 2021, 81, 103335.	2.8	10
41	On the linearization theorem for nonautonomous differential equations. Bulletin Des Sciences Mathematiques, 2015, 139, 829-846.	1.0	9
42	Robust finite-time boundedness of multi-agent systems subject to parametric uncertainties andÂdisturbances. International Journal of Systems Science, 2016, 47, 2466-2474.	5.5	9
43	Observer based consensus for nonlinear multi-agent systems with communication failures. Neurocomputing, 2016, 173, 1034-1043.	5.9	9
44	Novel Sampling Formulas Associated with Quaternionic Prolate Spheroidal Wave functions. Advances in Applied Clifford Algebras, 2017, 27, 2961-2983.	1.0	9
45	A UNIFIED ANALYSIS OF LINEAR QUATERNION DYNAMIC EQUATIONS ON TIME SCALES. Journal of Applied Analysis and Computation, 2018, 8, 172-201.	0.5	9
46	An algorithm for solving linear nonhomogeneous quaternion-valued differential equations and some open problems. Discrete and Continuous Dynamical Systems - Series S, 2022, 15, 1685.	1.1	9
47	The inverse Fueter mapping theorem for axially monogenic functions of degree k. Journal of Mathematical Analysis and Applications, 2019, 476, 819-835.	1.0	8
48	Multichannel interpolation of nonuniform samples with application to image recovery. Journal of Computational and Applied Mathematics, 2020, 367, 112502.	2.0	8
49	On the lower bound for a class of harmonic functions in the half space. Acta Mathematica Scientia, 2012, 32, 1487-1494.	1.0	7
50	Integral representation and asymptotic behavior of harmonic functions in half space. Journal of Differential Equations, 2014, 257, 2753-2764.	2.2	7
51	Asymptotic behavior of fractional Laplacians in the half space. Applied Mathematics and Computation, 2015, 254, 125-132.	2.2	7
52	Edge detection methods based on modified differential phase congruency of monogenic signal. Multidimensional Systems and Signal Processing, 2018, 29, 339-359.	2.6	7
53	The Mehler Formula for the Generalized Clifford–Hermite Polynomials. Acta Mathematica Sinica, English Series, 2007, 23, 697-704.	0.6	6
54	L^p Polyharmonic Dirichlet problems in regular domains I: the unit disc. Complex Variables and Elliptic Equations, 2013, 58, 1387-1405.	0.8	6

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55	Sharper uncertainty principles for the windowed Fourier transform. Journal of Modern Optics, 2015, 62, 46-55.	1.3	6
56	Constructing prolate spheroidal quaternion wave functions on the sphere. Mathematical Methods in the Applied Sciences, 2016, 39, 3961-3978.	2.3	6
57	On 3D orthogonal prolate spheroidal monogenics. Mathematical Methods in the Applied Sciences, 2016, 39, 635-648.	2.3	6
58	Herglotz's theorem and quaternion series of positive term. Mathematical Methods in the Applied Sciences, 2016, 39, 5607-5618.	2.3	6
59	Phaseâ€based edge detection algorithms. Mathematical Methods in the Applied Sciences, 2018, 41, 4148-4169.	2.3	6
60	Computational geometric and boundary value properties of Oblate Spheroidal Quaternionic Wave Functions. Wave Motion, 2015, 57, 112-128.	2.0	5
61	Multiple one-dimensional embedding clustering scheme for hyperspectral image classification. International Journal of Wavelets, Multiresolution and Information Processing, 2016, 14, 1640004.	1.3	5
62	Plancherel Theorems of Quaternion Hilbert Transforms Associated with Linear Canonical Transforms. Advances in Applied Clifford Algebras, 2020, 30, 1.	1.0	5
63	SHANNON SAMPLING AND ESTIMATION OF BAND-LIMITED FUNCTIONS IN THE SEVERAL COMPLEX VARIABLES SETTING. Acta Mathematica Scientia, 2005, 25, 741-754.	1.0	4
64	Zeros of a Class of Transcendental Equation with Application to Bifurcation of DDE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650062.	1.7	4
65	Ensemble control of linear systems with parameter uncertainties. International Journal of Control, 2016, 89, 1495-1508.	1.9	4
66	Hartmanâ€"Grobman Theorem for the Impulsive System with Unbounded Nonlinear Term. Qualitative Theory of Dynamical Systems, 2017, 16, 705-730.	1.7	4
67	Dynamics of Traveling Wave Solutions to a New Highly Nonlinear Shallow Water Wave Equation. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750044.	1.7	4
68	HÃ¶lder Regularity of Grobmanâ€"Hartman Theorem for Dynamic Equations on Measure Chains. Bulletin of the Malaysian Mathematical Sciences Society, 2018, 41, 1153-1180.	0.9	4
69	Sampling formulas for 2D quaternionic signals associated with various quaternion Fourier and linear canonical transforms. Frontiers of Information Technology and Electronic Engineering, 2022, 23, 463-478.	2.6	4
70	A note on the fast algorithm for block Toeplitz systems with tensor structure. Applied Mathematics and Computation, 2002, 126, 187-197.	2.2	3
71	Signal moments for the shortâ€time Fourier transform associated with Hardyâ€"Sobolev derivatives. Mathematical Methods in the Applied Sciences, 2015, 38, 2719-2730.	2.3	3
72	Bifurcations and Exact Traveling Wave Solutions of a Modified Nonlinear SchrÃ¶dinger Equation. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650106.	1.7	3

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73	Prolate spheroidal wave functions associated with the quaternionic Fourier transform. Mathematical Methods in the Applied Sciences, 2018, 41, 4003-4020.	2.3	3
74	A Robust Color Edge Detection Algorithm Based on the Quaternion Hardy Filter. Acta Mathematica Scientia, 2022, 42, 1238-1260.	1.0	3
75	Generalized holomorphic orthogonal function systems over infinite cylinders. Mathematical Methods in the Applied Sciences, 2015, 38, 2574-2588.	2.3	2
76	Sampling formulas for non-bandlimited quaternionic signals. Signal, Image and Video Processing, 0, , 1.	2.7	2
77	Sampling with Bessel Functions. Advances in Applied Clifford Algebras, 2007, 17, 519-536.	1.0	1
78	Integral representation and estimation of harmonic functions in the quaternionic half space. Mathematical Methods in the Applied Sciences, 2017, 40, 5484-5489.	2.3	1
79	Sampling expansions associated with quaternion difference equations. Linear and Multilinear Algebra, 2023, 71, 2180-2203.	1.0	1
80	The generalized Matsaev theorem on growth of subharmonic functions admitting a lower bound in $ℝ^n$. Complex Variables and Elliptic Equations, 2017, 62, 642-653.	0.8	0
81	Estimation, dependence and stability of solutions of an iterative equation. Aequationes Mathematicae, 2019, 93, 59-77.	0.8	0
82	Discrete uncertainty principle in quaternion setting and application in signal reconstruction. International Journal of Wavelets, Multiresolution and Information Processing, 0, , 2150019.	1.3	0
83	The existence of left eigenvalues for quaternionic matrix. Journal of Algebra and Its Applications, 0, , 2250207.	0.4	0