

Palghat P Vaidyanathan

List of Publications by Year in descending order

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all docs

318
docs citations

318
times ranked

3257
citing authors

#	ARTICLE	IF	CITATIONS
1	Nested Arrays: A Novel Approach to Array Processing With Enhanced Degrees of Freedom. IEEE Transactions on Signal Processing, 2010, 58, 4167-4181.	3.2	1,544
2	Sparse Sensing With Co-Prime Samplers and Arrays. IEEE Transactions on Signal Processing, 2011, 59, 573-586.	3.2	1,316
3	Coprime sampling and the music algorithm. , 2011, , .		566
4	Super Nested Arrays: Linear Sparse Arrays With Reduced Mutual Couplingâ€”Part I: Fundamentals. IEEE Transactions on Signal Processing, 2016, 64, 3997-4012.	3.2	441
5	Remarks on the Spatial Smoothing Step in Coarray MUSIC. IEEE Signal Processing Letters, 2015, 22, 1438-1442.	2.1	393
6	A new class of two-channel biorthogonal filter banks and wavelet bases. IEEE Transactions on Signal Processing, 1995, 43, 649-665.	3.2	339
7	MIMO Radar Spaceâ€”Time Adaptive Processing Using Prolate Spheroidal Wave Functions. IEEE Transactions on Signal Processing, 2008, 56, 623-635.	3.2	305
8	MIMO Radar Waveform Optimization With Prior Information of the Extended Target and Clutter. IEEE Transactions on Signal Processing, 2009, 57, 3533-3544.	3.2	240
9	MIMO Radar Ambiguity Properties and Optimization Using Frequency-Hopping Waveforms. IEEE Transactions on Signal Processing, 2008, 56, 5926-5936.	3.2	234
10	Multiple Level Nested Array: An Efficient Geometry for $2q$ th Order Cumulant Based Array Processing. IEEE Transactions on Signal Processing, 2012, 60, 1253-1269.	3.2	222
11	Super Nested Arrays: Linear Sparse Arrays With Reduced Mutual Couplingâ€”Part II: High-Order Extensions. IEEE Transactions on Signal Processing, 2016, 64, 4203-4217.	3.2	221
12	CramÃ©râ€”Rao bounds for coprime and other sparse arrays, which find more sources than sensors. , 2017, 61, 43-61.		213
13	Theory of Sparse Coprime Sensing in Multiple Dimensions. IEEE Transactions on Signal Processing, 2011, 59, 3592-3608.	3.2	170
14	Ramanujan Sums in the Context of Signal Processingâ€”Part I: Fundamentals. IEEE Transactions on Signal Processing, 2014, 62, 4145-4157.	3.2	162
15	Pushing the Limits of Sparse Support Recovery Using Correlation Information. IEEE Transactions on Signal Processing, 2015, 63, 711-726.	3.2	160
16	A Kaiser window approach for the design of prototype filters of cosine modulated filterbanks. IEEE Signal Processing Letters, 1998, 5, 132-134.	2.1	152
17	Theory of optimal orthonormal subband coders. IEEE Transactions on Signal Processing, 1998, 46, 1528-1543.	3.2	145
18	Periodically nonuniform sampling of bandpass signals. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1998, 45, 340-351.	2.3	142

#	ARTICLE	IF	CITATIONS
19	Nested Arrays in Two Dimensions, Part I: Geometrical Considerations. IEEE Transactions on Signal Processing, 2012, 60, 4694-4705.	3.2	138
20	The role of signal-processing concepts in genomics and proteomics. Journal of the Franklin Institute, 2004, 341, 111-135.	1.9	135
21	Effects of Multirate Systems on the Statistical Properties of Random Signals. IEEE Transactions on Signal Processing, 1993, 41, 131.	3.2	129
22	Low passband sensitivity digital filters: A generalized viewpoint and synthesis procedures. Proceedings of the IEEE, 1984, 72, 404-423.	16.4	123
23	Nested Arrays in Two Dimensions, Part II: Application in Two Dimensional Array Processing. IEEE Transactions on Signal Processing, 2012, 60, 4706-4718.	3.2	123
24	Quadratically Constrained Beamforming Robust Against Direction-of-Arrival Mismatch. IEEE Transactions on Signal Processing, 2007, 55, 4139-4150.	3.2	118
25	Look-up table (LUT) method for inverse halftoning. IEEE Transactions on Image Processing, 2001, 10, 1566-1578.	6.0	112
26	Coprime coarray interpolation for DOA estimation via nuclear norm minimization. , 2016, , .		107
27	Optimized halftoning using dot diffusion and methods for inverse halftoning. IEEE Transactions on Image Processing, 2000, 9, 691-709.	6.0	97
28	Ramanujan Sums in the Context of Signal Processingâ€™Part II: FIR Representations and Applications. IEEE Transactions on Signal Processing, 2014, 62, 4158-4172.	3.2	95
29	A Grid-Less Approach to Underdetermined Direction of Arrival Estimation Via Low Rank Matrix Denoising. IEEE Signal Processing Letters, 2014, 21, 737-741.	2.1	90
30	Linear phase cosine modulated maximally decimated filter banks with perfect reconstruction. IEEE Transactions on Signal Processing, 1995, 43, 2525-2539.	3.2	86
31	Role of anticausal inverses in multirate filter-banks .I. System-theoretic fundamentals. IEEE Transactions on Signal Processing, 1995, 43, 1090-1102.	3.2	81
32	Recent advances in digital halftoning and inverse halftoning methods. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 790-805.	0.1	76
33	Theory and design of optimum FIR compaction filters. IEEE Transactions on Signal Processing, 1998, 46, 903-919.	3.2	75
34	Generalized sampling theorems in multiresolution subspaces. IEEE Transactions on Signal Processing, 1997, 45, 583-599.	3.2	74
35	On the eigenfilter design method and its applications: A tutorial. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2003, 50, 497-517.	2.3	74
36	Multidimensional multirate filters and filter banks derived from one-dimensional filters. IEEE Transactions on Signal Processing, 1993, 41, 1749-1765.	3.2	69

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37	Nested Periodic Matrices and Dictionaries: New Signal Representations for Period Estimation. IEEE Transactions on Signal Processing, 2015, 63, 3736-3750.	3.2	69
38	Compressed sensing in MIMO radar. , 2008, , .		67
39	Extending Classical Multirate Signal Processing Theory to Graphsâ€™Part II: M-Channel Filter Banks. IEEE Transactions on Signal Processing, 2017, 65, 423-437.	3.2	65
40	Extending Classical Multirate Signal Processing Theory to Graphsâ€™Part I: Fundamentals. IEEE Transactions on Signal Processing, 2017, 65, 409-422.	3.2	62
41	Hourglass Arrays and Other Novel 2-D Sparse Arrays With Reduced Mutual Coupling. IEEE Transactions on Signal Processing, 2017, 65, 3369-3383.	3.2	60
42	Role of anticausal inverses in multirate filter-banks .II. The FIR case, factorizations, and biorthogonal lapped transforms. IEEE Transactions on Signal Processing, 1995, 43, 1103-1115.	3.2	56
43	Filterbank optimization with convex objectives and the optimality of principal component forms. IEEE Transactions on Signal Processing, 2001, 49, 100-114.	3.2	53
44	Theory and design of two-dimensional filter Banks: A review. Multidimensional Systems and Signal Processing, 1996, 7, 263-330.	1.7	52
45	A state space approach to the design of globally optimal FIR energy compaction filters. IEEE Transactions on Signal Processing, 2000, 48, 2822-2838.	3.2	52
46	A unified structural interpretation of some well-known stability-test procedures for linear systems. Proceedings of the IEEE, 1987, 75, 478-497.	16.4	49
47	Classical sampling theorems in the context of multirate and polyphase digital filter bank structures. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1988, 36, 1480-1495.	2.0	49
48	Efficient implementation of all-digital interpolation. IEEE Transactions on Image Processing, 2001, 10, 1639-1646.	6.0	49
49	A Spectral Factorization Approach to Pseudo-QMF Design. IEEE Transactions on Signal Processing, 1993, 41, 82.	3.2	47
50	Subspace-Based Blind Channel Identification for Cyclic Prefix Systems Using Few Received Blocks. IEEE Transactions on Signal Processing, 2007, 55, 4979-4993.	3.2	47
51	The role of integer matrices in multidimensional multirate systems. IEEE Transactions on Signal Processing, 1993, 41, 1035-1047.	3.2	46
52	Orthonormal and biorthonormal filter banks as convolvers, and convolutional coding gain. IEEE Transactions on Signal Processing, 1993, 41, 2110-2130.	3.2	44
53	Biorthogonal partners and applications. IEEE Transactions on Signal Processing, 2001, 49, 1013-1027.	3.2	43
54	Direct-MUSIC on sparse arrays. , 2012, , .		42

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55	Genomics and proteomics: A signal processor's tour. IEEE Circuits and Systems Magazine, 2004, 4, 6-29.	2.6	41
56	On application of LASSO for sparse support recovery with imperfect correlation awareness. , 2012, , .		41
57	Correlation-aware techniques for sparse support recovery. , 2012, , .		41
58	Super nested arrays: Sparse arrays with less mutual coupling than nested arrays. , 2016, , .		40
59	Maximally economic sparse arrays and cantor arrays. , 2017, , .		40
60	Results on optimal biorthogonal filter banks. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1998, 45, 932-947.	2.3	39
61	Minimum redundancy MIMO radars. , 2008, , .		39
62	Sparse sensing with coprime arrays. , 2010, , .		39
63	Robustness of Difference Coarrays of Sparse Arrays to Sensor Failuresâ€”Part I: A Theory Motivated by Coarray MUSIC. IEEE Transactions on Signal Processing, 2019, 67, 3213-3226.	3.2	38
64	Time-varying filters and filter banks: some basic principles. IEEE Transactions on Signal Processing, 1996, 44, 2971-2987.	3.2	37
65	New results and open problems on nonuniform filter-banks. , 1999, , .		37
66	Bifrequency and bispectrum maps: a new look at multirate systems with stochastic inputs. IEEE Transactions on Signal Processing, 2000, 48, 723-736.	3.2	36
67	The Theory of Linear Prediction. Synthesis Lectures on Signal Processing, 2007, 2, 1-184.	0.3	36
68	The farey-dictionary for sparse representation of periodic signals. , 2014, , .		35
69	Iterative greedy algorithm for solving the FIR paraunitary approximation problem. IEEE Transactions on Signal Processing, 2006, 54, 146-160.	3.2	34
70	Theory of optimal orthonormal filter banks. , 0, , .		30
71	Tree-structured method for LUT inverse halftoning and for image halftoning. IEEE Transactions on Image Processing, 2002, 11, 644-655.	6.0	30
72	Paraunitary filter banks over finite fields. IEEE Transactions on Signal Processing, 1997, 45, 1443-1457.	3.2	29

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73	Uncertainty Principles and Sparse Eigenvectors of Graphs. IEEE Transactions on Signal Processing, 2017, 65, 5406-5420.	3.2	29
74	Theory of cyclic filter banks. , 0, , .		28
75	Transmultiplexers as precoders in modern digital communication: a tutorial review. , 0, , .		28
76	Why does direct-MUSIC on sparse-arrays work?. , 2013, , .		28
77	Ramanujan filter banks for estimation and tracking of periodicities. , 2015, , .		28
78	Cyclic LTI systems in digital signal processing. IEEE Transactions on Signal Processing, 1999, 47, 433-447.	3.2	27
79	A novel array structure for directions-of-arrival estimation with increased degrees of freedom. , 2010, , .		27
80	Robustness of Difference Coarrays of Sparse Arrays to Sensor Failuresâ€”Part II: Array Geometries. IEEE Transactions on Signal Processing, 2019, 67, 3227-3242.	3.2	27
81	A Unified Theory of Union of Subspaces Representations for Period Estimation. IEEE Transactions on Signal Processing, 2016, 64, 5217-5231.	3.2	26
82	A low-complexity eigenfilter design method for channel shortening equalizers for dmt systems. IEEE Transactions on Communications, 2003, 51, 1069-1072.	4.9	25
83	Wavelet-based denoising by customized thresholding. , 0, , .		25
84	On optimal analysis/synthesis filters for coding gain maximization. IEEE Transactions on Signal Processing, 1996, 44, 1276-1279.	3.2	24
85	A Subspace Method for MIMO Radar Space-Time Adaptive Processing. , 2007, , .		24
86	Detecting tandem repeats in DNA using Ramanujan Filter Bank. , 2016, , .		23
87	On predicting a band-limited signal based on past sample values. Proceedings of the IEEE, 1987, 75, 1125-1127.	16.4	22
88	On existence of FIR principal component filter banks. , 0, , .		22
89	Properties of Ramanujan filter banks. , 2015, , .		22
90	iMUSIC: A Family of MUSIC-Like Algorithms for Integer Period Estimation. IEEE Transactions on Signal Processing, 2019, 67, 367-382.	3.2	22

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91	Theory and design of two-parallelgram filter banks. IEEE Transactions on Signal Processing, 1996, 44, 2688-2706.	3.2	21
92	Context-Sensitive Hidden Markov Models for Modeling Long-Range Dependencies in Symbol Sequences. IEEE Transactions on Signal Processing, 2006, 54, 4169-4184.	3.2	21
93	Properties of the MIMO radar ambiguity function. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	21
94	Computational identification and analysis of noncoding RNAs - Unearthing the buried treasures in the genome. IEEE Signal Processing Magazine, 2007, 24, 64-74.	4.6	20
95	Statistically optimum pre- and postfiltering in quantization. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1997, 44, 1015-1031.	2.3	19
96	The role of filter banks in sinusoidal frequency estimation. Journal of the Franklin Institute, 2001, 338, 517-547.	1.9	19
97	Discrete multitone modulation with principal component filter banks. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1397-1412.	0.1	19
98	MIMO biorthogonal partners and applications. IEEE Transactions on Signal Processing, 2002, 50, 528-542.	3.2	19
99	Tensor MUSIC in multidimensional sparse arrays. , 2015, , .		19
100	On coefficient-quantization and computational roundoff effects in lossless multirate filter banks. IEEE Transactions on Signal Processing, 1991, 39, 1006-1008.	3.2	18
101	Vector space framework for unification of one- and multidimensional filter bank theory. IEEE Transactions on Signal Processing, 1994, 42, 2006-2021.	3.2	18
102	Results on lattice vector quantization with dithering. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1996, 43, 811-826.	2.3	18
103	Identification and location of hot spots in proteins using the short-time discrete fourier transform. , 0, , .		18
104	System Identification With Sparse Coprime Sensing. IEEE Signal Processing Letters, 2010, 17, 823-826.	2.1	18
105	Theory of fractionally spaced cyclic-prefix equalizers. , 2002, , .		17
106	Chromatic derivative filter banks. IEEE Signal Processing Letters, 2002, 9, 215-216.	2.1	16
107	Precoded FIR and Redundant V-BLAST Systems for Frequency-Selective MIMO Channels. IEEE Transactions on Signal Processing, 2007, 55, 3390-3404.	3.2	16
108	Nonuniform sparse array design for active sensing. , 2011, , .		16

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109	Optimizing Minimum Redundancy Arrays for Robustness. , 2018, , .		16
110	Globally optimal two channel FIR orthonormal filter banks adapted to the input signal statistics. , 0, , .		15
111	Convolutional Beamspace for Linear Arrays. IEEE Transactions on Signal Processing, 2020, 68, 5395-5410.	3.2	15
112	On optimization of filter banks with denoising applications. , 0, , .		14
113	A Review of the Theory and Applications of Optimal Subband and Transform Coders. Applied and Computational Harmonic Analysis, 2001, 10, 254-289.	1.1	14
114	Beamforming issues in modern MIMO Radars with Doppler. , 2006, , .		14
115	Ramanujan-sum expansions for finite duration (FIR) sequences. , 2014, , .		14
116	Correlation Subspaces: Generalizations and Connection to Difference Coarrays. IEEE Transactions on Signal Processing, 2017, 65, 5006-5020.	3.2	14
117	Distributed Algorithms for Array Signal Processing. IEEE Transactions on Signal Processing, 2021, 69, 4607-4622.	3.2	14
118	Random Node-Asynchronous Updates on Graphs. IEEE Transactions on Signal Processing, 2019, 67, 2794-2809.	3.2	13
119	Optimality of principal component filter banks for discrete multitone communication systems. , 0, , .		12
120	Results on principal component filter banks: colored noise suppression and existence issues. IEEE Transactions on Information Theory, 2001, 47, 1003-1020.	1.5	12
121	Structural Alignment of RNAs Using Profile-csHMMs and Its Application to RNA Homology Search: Overview and New Results. IEEE Transactions on Automatic Control, 2008, 53, 10-25.	3.6	12
122	Frequency invariant MVDR beamforming without filters and implementation using MIMO radar. , 2009, , .		12
123	Comparison of Sparse Arrays From Viewpoint of Coarray Stability and Robustness. , 2018, , .		12
124	MIMO Radar Spacetime Adaptive Processing and Signal Design. , 0, , 235-281.		12
125	On sampling theorems for non bandlimited signals. , 0, , .		11
126	Noise optimized eigenfilter design of time-domain equalizers for DMT systems. , 0, , .		11

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127	Fractional biorthogonal partners in channel equalization and signal interpolation. IEEE Transactions on Signal Processing, 2003, 51, 1928-1940.	3.2	11
128	Optimization of transceivers with bit allocation to maximize bit rate for MIMO transmission. IEEE Transactions on Communications, 2009, 57, 3556-3560.	4.9	11
129	High order super nested arrays. , 2016, , .		11
130	Minimum Data Length for Integer Period Estimation. IEEE Transactions on Signal Processing, 2018, 66, 2733-2745.	3.2	11
131	Robustness of Coarrays of Sparse Arrays to Sensor Failures. , 2018, , .		11
132	Application of DFT filter banks and cosine modulated filter banks in filtering. , 0, , .		10
133	Eigenfilter design of MIMO equalizers for channel shortening. , 2002, , .		10
134	Sparse coprime sensing with multidimensional lattice arrays. , 2011, , .		10
135	Generalized Geometric Mean Decomposition and DFE Transceiver Designâ€”Part I: Design and Complexity. IEEE Transactions on Signal Processing, 2012, 60, 3112-3123.	3.2	10
136	Parameter identifiability in Sparse Bayesian Learning. , 2014, , .		10
137	Detection of protein repeats using the Ramanujan Filter Bank. , 2016, , .		10
138	Efficient multiplier-less structures for Ramanujan filter banks. , 2017, , .		10
139	Fast and robust blind-equalization based on cyclic prefix. , 0, , .		9
140	A spectral factorization approach to pseudo-QMF design. , 0, , .		9
141	Finite-channel chromatic derivative filter banks. IEEE Signal Processing Letters, 2003, 10, 15-17.	2.1	9
142	A multirate DSP model for estimation of discrete probability density functions. IEEE Transactions on Signal Processing, 2005, 53, 252-264.	3.2	9
143	On the spectral factor ambiguity of FIR energy compaction filter Banks. IEEE Transactions on Signal Processing, 2006, 54, 380-385.	3.2	9
144	MIMO radar with broadband waveforms: Smearing filter banks and 2D virtual arrays. , 2008, , .		9

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145	Beamforming using passive nested arrays of sensors. , 2010, , .		9
146	Coprimality of Certain Families of Integer Matrices. IEEE Transactions on Signal Processing, 2011, 59, 1481-1490.	3.2	9
147	Graph filter banks with M-channels, maximal decimation, and perfect reconstruction. , 2016, , .		9
148	Optimum low cost two channel IIR orthonormal filter bank. , 0, , .		8
149	Periodically nonuniform sampling of a new class of bandpass signals. , 0, , .		8
150	Oversampling PCM techniques and optimum noise shapers for quantizing a class of nonbandlimited signals. IEEE Transactions on Signal Processing, 1999, 47, 389-407.	3.2	8
151	Look up table (LUT) inverse halftoning. , 0, , .		8
152	Discrete multitone communication with principal component filter banks. , 0, , .		8
153	Profile Context-Sensitive HMMs for Probabilistic Modeling of Sequences With Complex Correlations. , 0, , .		8
154	Dictionary approaches for identifying periodicities in data. , 2014, , .		8
155	Fundamentals of multirate graph signal processing. , 2015, , .		8
156	Absence Seizure Detection Using Ramanujan Filter Banks. , 2018, , .		8
157	Convolutional Beamspace for Array Signal Processing. , 2020, , .		8
158	Synthesis of arbitrary digital transfer functions using allpass-based structures derived via LBR two-pair extraction procedure. Circuits, Systems, and Signal Processing, 1986, 5, 343-370.	1.2	7
159	Factorability of lossless time-varying filters and filter banks. IEEE Transactions on Signal Processing, 1997, 45, 1971-1986.	3.2	7
160	Structures for anticausal inverses and application in multirate filter banks. IEEE Transactions on Signal Processing, 1998, 46, 507-514.	3.2	7
161	The role of the discrete-time Kalman-Yakubovitch-Popov lemma in designing statistically optimum FIR orthonormal filter banks. , 0, , .		7
162	Nonuniform Filter Banks: New Results and open Problems. Studies in Computational Mathematics, 2003, 10, 259-301.	0.2	7

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163	Eigenfunctions of the Fourier Transform. IETE Journal of Education Online, 2008, 49, 51-58.	0.7	7
164	Generalized Geometric Mean Decomposition and DFE Transceiver Design Part II: Performance Analysis. IEEE Transactions on Signal Processing, 2012, 60, 3124-3133.	3.2	7
165	Multidimensional Ramanujan-sum expansions on nonseparable lattices. , 2015, , .		7
166	On the Role of the Bounded Lemma in the SDP Formulation of Atomic Norm Problems. IEEE Signal Processing Letters, 2017, 24, 972-976.	2.1	7
167	IIR Filtering on Graphs With Random Node-Asynchronous Updates. IEEE Transactions on Signal Processing, 2020, 68, 3945-3960.	3.2	7
168	On the minimum phase property of prediction-error polynomials. IEEE Signal Processing Letters, 1997, 4, 126-127.	2.1	6
169	Least squares signal approximation using multirate systems: multichannel nonuniform case. , 2001, , .		6
170	Generalized kurtosis and applications in blind equalization of MIMO channels. , 2001, , .		6
171	A generalized deterministic algorithm for blind channel identification with filter bank precoders. , 0, , .		6
172	Fast Search of Sequences with Complex Symbol Correlations using Profile Context-Sensitive HMMS and Pre-Screening Filters. , 2007, , .		6
173	Efficient frequency invariant beamforming using virtual arrays. , 2010, , .		6
174	Zero-Forcing DFE Transceiver Design Over Slowly Time-Varying MIMO Channels Using ST-GTD. IEEE Transactions on Signal Processing, 2010, 58, 5779-5790.	3.2	6
175	A General Approach to Coprime Pairs of Matrices, Based on Minors. IEEE Transactions on Signal Processing, 2011, 59, 3536-3548.	3.2	6
176	Node-asynchronous Implementation of Rational Filters on Graphs. , 2019, , .		6
177	Randomized Asynchronous Recursions with a Sinusoidal Input. , 2019, , .		6
178	Novel algorithms for analyzing the robustness of difference coarrays to sensor failures. Signal Processing, 2020, 171, 107517.	2.1	6
179	New results on multidimensional Chinese remainder theorem. IEEE Signal Processing Letters, 1994, 1, 176-178.	2.1	5
180	A mathematical description of the dot diffusion algorithm in image halftoning with application in inverse halftoning. , 1999, , .		5

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181	Look up table (LUT) method for image halftoning. , 0, , .		5
182	Filter banks in digital communications. IEEE Circuits and Systems Magazine, 2001, 1, 4-25.	2.6	5
183	On the general form of FIR MIMO biorthogonal partners. , 2001, , .		5
184	Improved estimation of discrete probability density functions using multirate models. , 0, , .		5
185	Equalization with oversampling in multiuser CDMA systems. IEEE Transactions on Signal Processing, 2005, 53, 1837-1851.	3.2	5
186	Some properties of IIR power-symmetric filters. , 2007, , .		5
187	Performance Analysis of Generalized Zero-Padded Blind Channel Estimation Algorithms. IEEE Signal Processing Letters, 2007, 14, 789-792.	2.1	5
188	MIMO Transceiver Optimization With Linear Constraints on Transmitted Signal Covariance Components. IEEE Transactions on Signal Processing, 2010, 58, 458-462.	3.2	5
189	Minimal dictionaries for spanning periodic signals. , 2015, , .		5
190	Arbitrarily Shaped Periods in Multidimensional Discrete Time Periodicity. IEEE Signal Processing Letters, 2015, 22, 1748-1751.	2.1	5
191	Two-dimensional sparse arrays with hole-free coarray and reduced mutual coupling. , 2016, , .		5
192	New Cram�r-Rao bound expressions for coprime and other sparse arrays. , 2016, , .		5
193	Asynchronous Nonlinear Updates on Graphs. , 2018, , .		5
194	Random Node-Asynchronous Graph Computations: Novel Opportunities for Discrete-Time State-Space Recursions. IEEE Signal Processing Magazine, 2020, 37, 64-73.	4.6	5
195	The random component-wise power method. , 2019, , .		5
196	A New Breakthrough In Linear-system Theory: Kharitonov's Result. , 0, , .		4
197	Theory and design of perfect reconstruction transmultiplexers and their relation to perfect reconstruction QMF banks. , 1989, , .		4
198	Homogeneous time-invariant systems. IEEE Signal Processing Letters, 1999, 6, 76-77.	2.1	4

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199	A new eigenfilter based method for optimal design of channel shortening equalizers. , 0, , .		4
200	Fractional biorthogonal partners in fractionally spaced equalizers. , 2002, , .		4
201	Discrete probability density estimation using multirate DSP models. , 0, , .		4
202	Identification of CPG islands using a bank of IIR lowpass filters. , 0, , .		4
203	On equalization of channels with ZP precoders. , 2007, , .		4
204	New Algorithms for Blind Block Synchronization in Zero-Padding Systems. , 2007, , .		4
205	Comments on "Performance Analysis of a Deterministic Channel Estimator for Block Transmission Systems With Null Guard Intervals. IEEE Transactions on Signal Processing, 2008, 56, 1308-1309.	3.2	4
206	ZF-DFE transceiver for time-varying MIMO channels with channel-independent temporal precoder. , 2010, , .		4
207	MIMO Broadcast DFE Transceivers With QoS Constraints: Min-Power and Max-Rate Solutions. IEEE Transactions on Signal Processing, 2013, 61, 5550-5562.	3.2	4
208	Ramanujan subspaces and digital signal processing. , 2014, , .		4
209	Design of coprime DFT arrays and filter banks. , 2014, , .		4
210	Critical data length for period estimation. , 2016, , .		4
211	Time estimation for heat diffusion on graphs. , 2017, , .		4
212	Robust Digital Filter Structures: A Direct Approach. IEEE Circuits and Systems Magazine, 2019, 19, 14-32.	2.6	4
213	Srinivasa Ramanujan and signal-processing problems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20180446.	1.6	4
214	Node-Asynchronous Spectral Clustering On Directed Graphs. , 2020, , .		4
215	The best basis problem, compaction problem and PCFB design problems [filter banks]. , 0, , .		3
216	On arbitrary-level IIR and FIR filters. IEEE Transactions on Circuits and Systems, 1990, 37, 280-284.	0.9	3

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217	One- and two-level filter-bank convolvers. IEEE Transactions on Signal Processing, 1995, 43, 116-133.	3.2	3
218	On the study of four-parallelogram filter banks. IEEE Transactions on Signal Processing, 1996, 44, 2707-2717.	3.2	3
219	Two-dimensional linear phase cosine modulated filter banks. , 0, , .		3
220	Image halftoning and inverse halftoning for optimized dot diffusion. , 0, , .		3
221	Globally optimal FIR filters with applications in source and channel coding. , 0, , .		3
222	On power allocation for generalized cyclic-prefix based channel-equalizers. , 0, , .		3
223	A frequency domain approach for blind identification with filter bank precoders. , 0, , .		3
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