

# Stefan Werner

## List of Publications by Year in descending order

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158  
papers

5,010  
citations

257450

24  
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118850

62  
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158  
all docs

158  
docs citations

158  
times ranked

3370  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitigation of Loopback Self-Interference in Full-Duplex MIMO Relays. IEEE Transactions on Signal Processing, 2011, 59, 5983-5993.	5.3	1,143
2	Hybrid Full-Duplex/Half-Duplex Relaying with Transmit Power Adaptation. IEEE Transactions on Wireless Communications, 2011, 10, 3074-3085.	9.2	552
3	State Estimation in Electric Power Grids: Meeting New Challenges Presented by the Requirements of the Future Grid. IEEE Signal Processing Magazine, 2012, 29, 33-43.	5.6	349
4	Optimized gain control for single-frequency relaying with loop interference. IEEE Transactions on Wireless Communications, 2009, 8, 2801-2806.	9.2	173
5	Set-membership affine projection algorithm. IEEE Signal Processing Letters, 2001, 8, 231-235.	3.6	168
6	Comparison of Full-Duplex and Half-Duplex Modes with a Fixed Amplify-and-Forward Relay. , 2009, , .		142
7	On the feasibility of full-duplex relaying in the presence of loop interference. , 2009, , .		134
8	Distributed Least Mean-Square Estimation With Partial Diffusion. IEEE Transactions on Signal Processing, 2014, 62, 472-484.	5.3	106
9	Distributed Kalman Filtering and Control Through Embedded Average Consensus Information Fusion. IEEE Transactions on Automatic Control, 2019, 64, 4396-4403.	5.7	94
10	Partial-Update NLMS Algorithms with Data-Selective Updating. IEEE Transactions on Signal Processing, 2004, 52, 938-949.	5.3	90
11	Phase Noise Estimation in OFDM: Utilizing Its Associated Spectral Geometry. IEEE Transactions on Signal Processing, 2016, 64, 1999-2012.	5.3	85
12	Spatial loop interference suppression in full-duplex MIMO relays. , 2009, , .		84
13	Adaptive Distributed Estimation Based on Recursive Least-Squares and Partial Diffusion. IEEE Transactions on Signal Processing, 2014, 62, 3510-3522.	5.3	79
14	Analysis of the Gradient-Descent Total Least-Squares Adaptive Filtering Algorithm. IEEE Transactions on Signal Processing, 2014, 62, 1256-1264.	5.3	72
15	Set-membership binormalized data-reusing lms algorithms. IEEE Transactions on Signal Processing, 2003, 51, 124-134.	5.3	62
16	Low-complexity constrained affine-projection algorithms. IEEE Transactions on Signal Processing, 2005, 53, 4545-4555.	5.3	56
17	Residual self-interference in full-duplex MIMO relays after null-space projection and cancellation. , 2010, , .		55
18	Receiver Cancellation Technique for Nonlinear Power Amplifier Distortion in SDMAâ€™OFDM Systems. IEEE Transactions on Vehicular Technology, 2007, 56, 2499-2516.	6.3	53

#	ARTICLE	IF	CITATIONS
19	Optimal eigenbeamforming for suppressing self-interference in full-duplex MIMO relays. , 2011, , .		53
20	Outage Probabilities in Infrastructure-Based Single-Frequency Relay Links. , 2009, , .		49
21	Performance Analysis of OFDM with Wiener Phase Noise and Frequency Selective Fading Channel. IEEE Transactions on Communications, 2011, 59, 1321-1331.	7.8	47
22	Householder Multistage Wiener Filter for Space-Time Navigation Receivers. IEEE Transactions on Aerospace and Electronic Systems, 2007, 43, 975-988.	4.7	46
23	On the equivalence of RLS implementations of LCMV and GSC processors. IEEE Signal Processing Letters, 2003, 10, 356-359.	3.6	41
24	Set-Membership Proportionate Affine Projection Algorithms. Eurasip Journal on Audio, Speech, and Music Processing, 2007, 2007, 1-10.	2.1	40
25	Analysis of a reduced-communication diffusion LMS algorithm. Signal Processing, 2015, 117, 355-361.	3.7	40
26	Transmit power optimization for multiantenna decode-and-forward relays with loopback self-interference from full-duplex operation. , 2011, , .		37
27	BEP Analysis of OFDM Relay Links with Nonlinear Power Amplifiers. , 2010, , .		35
28	On the mean-square performance of the constrained LMS algorithm. Signal Processing, 2015, 117, 192-197.	3.7	33
29	Nonlinear Amplifier Distortion in Cooperative Amplify-and-Forward OFDM Systems. , 2009, , .		32
30	Distributed Adaptive Filtering of $\alpha$ -Stable Signals. IEEE Signal Processing Letters, 2018, 25, 1450-1454.	3.6	29
31	Factorized All-Pass Based IIR Adaptive Notch Filters. IEEE Transactions on Signal Processing, 2007, 55, 5225-5236.	5.3	27
32	Distributed parameter estimation with selective cooperation. , 2009, , .		26
33	Power System State Estimation Under Incomplete PMU Observability – A Reduced-Order Approach. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 1051-1062.	10.8	26
34	Cost-aware renewable energy management: Centralized vs. distributed generation. Renewable Energy, 2020, 147, 1164-1179.	8.9	26
35	Adaptive Piecewise Linear Predistorters for Nonlinear Power Amplifiers With Memory. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 1519-1532.	5.4	25
36	SINR optimization in wideband full-duplex MIMO relays under limited dynamic range. , 2014, , .		25

#	ARTICLE	IF	CITATIONS
37	Fractional-Order Correntropy Adaptive Filters for Distributed Processing of $\alpha$ -Stable Signals. IEEE Signal Processing Letters, 2020, 27, 1884-1888.	3.6	25
38	Evaluation of OFDM(A) Relaying Protocols: Capacity Analysis in Infrastructure Framework. IEEE Transactions on Vehicular Technology, 2012, 61, 360-374.	6.3	23
39	Characterization of OFDM Radio Link Under PLL-Based Oscillator Phase Noise and Multipath Fading Channel. IEEE Transactions on Communications, 2012, 60, 1479-1485.	7.8	23
40	Quaternion-Valued Distributed Filtering and Control. IEEE Transactions on Automatic Control, 2020, 65, 4246-4257.	5.7	22
41	Efficient Nonlinear Wiener Model Identification Using a Complex-Valued Simplicial Canonical Piecewise Linear Filter. IEEE Transactions on Signal Processing, 2007, 55, 1780-1792.	5.3	21
42	Smart Load Tracking and Reporting for Real-Time Metering in Electric Power Grids. IEEE Transactions on Smart Grid, 2016, 7, 1723-1731.	9.0	21
43	Adaptive frequency estimation of three-phase power systems. Signal Processing, 2015, 109, 290-300.	3.7	20
44	Machine Learning-Based Occupancy Estimation Using Multivariate Sensor Nodes. , 2018, , .		20
45	Nonlinear Adaptive Filtering With Kernel Set-Membership Approach. IEEE Transactions on Signal Processing, 2020, 68, 1515-1528.	5.3	20
46	Decentralized set-membership adaptive estimation for clustered sensor networks. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	19
47	Adaptive self-interference cancellation in wideband full-duplex decode-and-forward MIMO relays. , 2013, , .		19
48	Fractional-Order Correntropy Filters for Tracking Dynamic Systems in $\hat{1}$ -Stable Environments. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3557-3561.	3.0	18
49	Receiver-side nonlinearities mitigation using an extended iterative decision-based technique. Signal Processing, 2011, 91, 2042-2056.	3.7	17
50	Recursive Total Least-Squares Algorithm Based on Inverse Power Method and Dichotomous Coordinate-Descent Iterations. IEEE Transactions on Signal Processing, 2015, 63, 1941-1949.	5.3	17
51	Constrained Phase Noise Estimation in OFDM Using Scattered Pilots Without Decision Feedback. IEEE Transactions on Signal Processing, 2017, 65, 2348-2362.	5.3	17
52	SINR analysis of full-duplex OFDM repeaters. , 2009, , .		16
53	Rate-interference trade-off between duplex modes in decode-and-forward relaying. , 2010, , .		16
54	Diffusion-based distributed adaptive estimation utilizing gradient-descent total least-squares. , 2013, , .		16

#	ARTICLE	IF	CITATIONS
55	EVM Analysis for Broadband OFDM Direct-Conversion Transmitters. IEEE Transactions on Vehicular Technology, 2013, 62, 3443-3451.	6.3	15
56	Wideband full-duplex MIMO relays with blind adaptive self-interference cancellation. Signal Processing, 2017, 130, 74-85.	3.7	15
57	Adaptive control of a Wiener type system: application of a pH Neutralization reactor. International Journal of Control, 2007, 80, 231-240.	1.9	14
58	Low-Complexity Channel Prediction Using Approximated Recursive DCT. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 2520-2530.	5.4	14
59	Distributed demand-side optimization with load uncertainty. , 2013, , .		14
60	Complex-Valued Nonlinear Adaptive Filters With Applications in $\alpha$ -Stable Environments. IEEE Signal Processing Letters, 2019, 26, 1315-1319.	3.6	14
61	Power amplifier linearization technique with IQ imbalance and crosstalk compensation for broadband MIMO-OFDM transmitters. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.7	13
62	Adaptive Graph Filters in Reproducing Kernel Hilbert Spaces: Design and Performance Analysis. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 62-74.	2.8	13
63	Kernel Regression Over Graphs Using Random Fourier Features. IEEE Transactions on Signal Processing, 2022, 70, 936-949.	5.3	13
64	Real-time smart metering with reduced communication and bounded error. , 2014, , .		11
65	Distributed Kalman Filtering in Presence of Unknown Outer Network Actuators. , 2019, 3, 186-191.		11
66	Multichannel Fast QR-Decomposition Algorithms: Weight Extraction Method and Its Applications. IEEE Transactions on Signal Processing, 2010, 58, 175-188.	5.3	10
67	Event-triggered multi-area state estimation in power systems. , 2011, , .		10
68	Autocorrelation-based adaptation rule for feedback equalization in wideband full-duplex amplify-and-forward MIMO relays. , 2013, , .		10
69	Subspace-constrained SINR optimization in MIMO full-duplex relays under limited dynamic range. , 2015, , .		10
70	Event-triggered real-time metering in smart grids. , 2015, , .		10
71	Decentralized PMU-Assisted Power System State Estimation With Reduced Interarea Communication. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 607-616.	10.8	10
72	An SMF approach to distributed average consensus in clustered sensor networks. , 2009, , .		9

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73	Energy-efficient distributed parameter estimation with partial updates. , 2010, , .		9
74	Distributed cooperative spectrum sensing with adaptive combining. , 2012, , .		9
75	Reduced-order synchrophasor-assisted state estimation for smart grids. , 2012, , .		9
76	Decentralized Graph Federated Multitask Learning for Streaming Data. , 2022, , .		9
77	Iterative Channel Estimation for Multiuser OFDM Systems in the Presence of Power Amplifier Nonlinearities. , 2006, , .		8
78	BEP analysis of OSTBC-OFDM systems with broadband pa and imperfect memory compensation. IEEE Communications Letters, 2007, 11, 940-942.	4.1	8
79	Time- and coefficient-selective diffusion strategies for distributed parameter estimation. , 2010, , .		8
80	Estimating frequency of three-phase power systems via widely-linear modeling and total least-squares. , 2013, , .		8
81	Distributed Kalman Filtering: Consensus, Diffusion, and Mixed. , 2018, , .		8
82	Multichannel fast QRD-RLS adaptive filtering: Block-channel and sequential-channel algorithms based on updating backward prediction errors. Signal Processing, 2007, 87, 1781-1798.	3.7	7
83	Design of co-phasing allpass filters for full-duplex OFDM relays. , 2008, , .		7
84	Hypoexponential Powerâ€™Delay Profile and Performance of Multihop OFDM Relay Links. IEEE Transactions on Wireless Communications, 2010, 9, 3878-3888.	9.2	7
85	Bit Loading Using Imperfect CSIT for Prediction-Based Resource Allocation in Mobile OFDMA. IEEE Transactions on Vehicular Technology, 2011, 60, 4082-4088.	6.3	7
86	Distributed Ridge Regression with Feature Partitioning. , 2018, , .		7
87	Graph Diffusion Kernel LMS using Random Fourier Features. , 2020, , .		7
88	Communication-Efficient Online Federated Learning Framework for Nonlinear Regression. , 2022, , .		7
89	Distributed Jacobi eigen-beamforming for closed-loop MIMO systems. IEEE Communications Letters, 2006, 10, 825-827.	4.1	6
90	Partial-diffusion recursive least-squares estimation over adaptive networks. , 2013, , .		6

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91	Adaptive frequency estimation of three-phase power systems with noisy measurements. , 2013, , .		6
92	Coordinated Data-Falsification Attacks in Consensus-based Distributed Kalman Filtering. , 2019, , .		6
93	Privacy-Preserving Distributed Maximum Consensus. IEEE Signal Processing Letters, 2020, 27, 1839-1843.	3.6	6
94	Broadband power amplifier distortion cancellation with model estimation in the receiver. , 2007, , .		5
95	Data-aided CFO estimators based on the averaged cyclic autocorrelation. Signal Processing, 2013, 93, 217-229.	3.7	5
96	Reduced-complexity distributed least-squares estimation over adaptive networks. , 2013, , .		5
97	Uplink CFO compensation for FBMC multiple access and OFDMA in a high mobility scenario. Physical Communication, 2014, 11, 56-66.	2.1	5
98	MMSE Filter Design for Full-duplex Filter-and-forward MIMO Relays under Limited Dynamic Range. Signal Processing, 2019, 156, 208-219.	3.7	5
99	On Stability and Convergence of Distributed Filters. IEEE Signal Processing Letters, 2021, 28, 494-498.	3.6	5
100	Energy optimization through cooperative storage management: A calculus of variations approach. Renewable Energy, 2021, 171, 1357-1370.	8.9	5
101	Capacity Evaluation of DF Protocols for OFDMA Infrastructure Relay Links. , 2009, , .		4
102	Decentralized power system state estimation with reduced inter-area communication. , 2015, , .		4
103	Model-distributed solution of regularized least-squares problem over sensor networks. , 2015, , .		4
104	Privacy preserving decentralized power system state estimation with phasor measurement units. , 2016, , .		4
105	PRIVACY-PRESERVING DISTRIBUTED PRECODER DESIGN FOR DECENTRALIZED ESTIMATION. , 2018, , .		4
106	Tracking Dynamic Systems in $\hat{L}$ -Stable Environments. , 2019, , .		4
107	Cost-Aware Dual Prediction Scheme for Reducing Transmissions at IoT Sensor Nodes. , 2019, , .		4
108	Extended Adjacency and Scale-Dependent Graph Fourier Transform via Diffusion Distances. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 592-604.	2.8	4

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109	Performance of Clustered Multitask Diffusion LMS Suffering From Inter-Node Communication Delays. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2695-2699.	3.0	4
110	Data-Driven Personalized Cervical Cancer Risk Prediction: A Graph-Perspective. , 2021, , .		4
111	Distributed Kalman Filtering with Privacy against Honest-but-Curious Adversaries. , 2021, , .		4
112	Novel VLSI Architecture for Fractional-Order Correntropy Adaptive Filtering Algorithm. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2022, 30, 893-904.	3.1	4
113	Enhanced Partial Update Beamforming for Closed Loop MIMO Systems. , 2006, , .		3
114	Reduced Complexity Solution for Weight Extraction in QRD-LSL Algorithms. IEEE Signal Processing Letters, 2008, 15, 277-280.	3.6	3
115	Spectral characteristics of a piecewise linear function in modeling power amplifier type nonlinearities. , 2010, , .		3
116	Accurate characterization and compensation of phase noise in OFDM receiver. , 2011, , .		3
117	Demand side management through electricity pricing in competitive environments. , 2013, , .		3
118	Signal-dependent preprocessing of buffered PMU measurements for hybrid state estimation. , 2016, , .		3
119	Renewable Energy Optimization with Centralized and Distributed Generation. , 2018, , .		3
120	Improving Accuracy of the Shewhart-based Data-Reduction in IoT Nodes using Piggybacking. , 2019, , .		3
121	Consensus-based Distributed Total Least-squares Estimation Using Parametric Semidefinite Programming. , 2019, , .		3
122	Optimal Scheduling Policy for Spatio-temporally Dependent Observations using Age-of-Information. , 2020, , .		3
123	Privacy-Preserved Distributed Learning With Zeroth-Order Optimization. IEEE Transactions on Information Forensics and Security, 2022, 17, 265-279.	6.9	3
124	Privacy-Preserving Distributed Kalman Filtering. IEEE Transactions on Signal Processing, 2022, 70, 3074-3089.	5.3	3
125	Partial-update NLMS algorithms with data-selective updating. , 2002, , .		2
126	Split Predistortion Approach for Reduced Complexity Terminal in OFDM Systems. IEEE Vehicular Technology Conference, 2007, , .	0.4	2



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127	Sequential Compensation of RF Impairments in OFDM Systems. , 2010, , .		2
128	Time- and coefficient- selective diffusion strategies for distributed parameter estimation. , 2011, , .		2
129	Prediction based resource allocation in OFDMA. , 2011, , .		2
130	Average capacity of Rayleigh-fading OFDM link with wiener phase noise and frequency offset. , 2012, , .		2
131	Cooperative Renewable Energy Management with Distributed Generation. , 2018, , .		2
132	Nonlinear Online Learning â€” A Kernel SMF Approach. , 2018, , .		2
133	Storage Management in a Shared Solar Environment With Time-Varying Electricity Prices. IEEE Internet of Things Journal, 2019, 6, 7420-7436.	8.7	2
134	Distributed Learning with Non-Smooth Objective Functions. , 2021, , .		2
135	Privacy-Preserving Distributed Learning with Nonsmooth Objective Functions. , 2020, , .		2
136	Distributed Learning over Networks with Non-Smooth Regularizers and Feature Partitioning. , 2021, , .		2
137	A combined PAPR reduction and predistorter scheme for Osstems in nonlinear channels. , 2007, , .		1
138	Limited Feedback Multiuser MIMO Techniques for Time-Correlated Channels. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.7	1
139	Decentralized Limited-Feedback Multiuser MIMO for Temporally Correlated Channels. Journal of Electrical and Computer Engineering, 2010, 2010, 1-9.	0.9	1
140	Comments on â€”Simple formulas for SIMO and MISO ergodic capacitiesâ€™. Electronics Letters, 2012, 48, 127.	1.0	1
141	Distributed cooperative spectrum sensingwith double-topology. , 2013, , .		1
142	Subspace-based phase noise estimation in OFDM receivers. , 2015, , .		1
143	Robust filter design for full-duplex relay links under limited dynamic range. , 2017, , .		1
144	Kalman Filtering and Clustering in Sensor Networks. , 2018, , .		1

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145	Price-aware Renewable Energy Management with Transmission Losses. , 2019, , .		1
146	Recurrent Time-Varying Multi-Graph Convolutional Neural Network for Personalized Cervical Cancer Risk Prediction. , 2021, , .		1
147	Securing the Distributed Kalman Filter Against Curious Agents. , 2021, , .		1
148	Optimal Transmission-Constrained Scheduling of Spatio-Temporally Dependent Observations Using Age-of-Information. IEEE Sensors Journal, 2022, 22, 15596-15606.	4.7	1
149	Link adaptation with distributed Jacobi eigenbeamforming for MIMO systems. , 2007, , .		0
150	Single-bit closed-loop quasi-orthogonal space-time codes for MIMO systems. , 2009, , .		0
151	Constrained least-squares estimation and compensation of phase noise in OFDM radio link. , 2012, , .		0
152	Mitigation of pulse-width-modulation distortion using a digital predistorter based on memory polynomials. Signal Processing, 2016, 120, 562-571.	3.7	0
153	On the asymptotic bias of the diffusion-based distributed pareto optimization. Signal Processing, 2017, 130, 337-342.	3.7	0
154	Multichannel Fast QRD-RLS Algorithms. , 2009, , 1-34.		0
155	Weight Extraction of Fast QRD-RLS Algorithms. , 2009, , 1-24.		0
156	Optimal Scheduling of Multiple Spatio-temporally Dependent Observations using Age-of-Information. , 2020, , .		0
157	Optimization Strategy for Energy Allocation through Cooperative Storage Management. , 2021, , .		0
158	Optimal Transmission Threshold and Channel Allocation Strategies for Heterogeneous Sensor Data. , 2021, , .		0