

# Yonina C Eldar

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

432  
papers

14,980  
citations

60  
h-index

111  
g-index

508  
ext. papers

20,208  
ext. citations

4.8  
avg, IF

7.57  
L-index

#	Paper	IF	Citations
432	Two-Timescale End-to-End Learning for Channel Acquisition and Hybrid Precoding. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2022</b> , 40, 163-181	14.2	2
431	Learned Factor Graphs for Inference From Stationary Time Sequences. <i>IEEE Transactions on Signal Processing</i> , <b>2022</b> , 70, 366-380	4.8	4
430	Integrated Sensing and Communications: Towards Dual-functional Wireless Networks for 6G and Beyond. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2022</b> , 1-1	14.2	49
429	KalmanNet: Neural Network Aided Kalman Filtering for Partially Known Dynamics. <i>IEEE Transactions on Signal Processing</i> , <b>2022</b> , 70, 1532-1547	4.8	5
428	Bayesian Estimation of Graph Signals. <i>IEEE Transactions on Signal Processing</i> , <b>2022</b> , 1-1	4.8	0
427	Mathematical Foundations of AIM <b>2022</b> , 37-54		
426	Community Inference from Partially Observed Graph Signals: Algorithms and Analysis. <i>IEEE Transactions on Signal Processing</i> , <b>2022</b> , 1-1	4.8	
425	Deep Unrolled Recovery in Sparse Biological Imaging: Achieving fast, accurate results. <i>IEEE Signal Processing Magazine</i> , <b>2022</b> , 39, 45-57	9.4	3
424	FRI-TEM: Time Encoding Sampling of Finite-Rate-of-Innovation Signals. <i>IEEE Transactions on Signal Processing</i> , <b>2022</b> , 1-1	4.8	0
423	Multimodal Unrolled Robust PCA for Background Foreground Separation.. <i>IEEE Transactions on Image Processing</i> , <b>2022</b> , 31, 3553-3564	8.7	1
422	Federated Learning: A signal processing perspective. <i>IEEE Signal Processing Magazine</i> , <b>2022</b> , 39, 14-41	9.4	11
421	Transmit Beamforming with Fixed Covariance for Integrated MIMO Radar and Multiuser Communications <b>2022</b> ,		1
420	Guest Editorial Special Issue on Integrated Sensing and Communication Part I. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2022</b> , 40, 1723-1727	14.2	
419	Deep Unfolding with Normalizing Flow Priors for Inverse Problems. <i>IEEE Transactions on Signal Processing</i> , <b>2022</b> , 1-1	4.8	
418	Channel Estimation with Simultaneous Reflecting and Sensing Reconfigurable Intelligent Metasurfaces <b>2021</b> ,		5
417	MIMO Networks with One-Bit ADCs: Receiver Design and Communication Strategies. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 1-1	6.9	1
416	Cramér-Rao Bound Optimization for Joint Radar-Communication Beamforming. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 1-1	4.8	15

415	Integrating Domain Knowledge into Deep Networks for Lung Ultrasound with Applications to COVID-19. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , PP,	11.7	2
414	Mathematical Foundations of AIM <b>2021</b> , 1-18		
413	LoRD-Net: Unfolded Deep Detection Network With Low-Resolution Receivers. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 5651-5664	4.8	8
412	FRaC: FMCW-Based Joint Radar-Communications System Via Index Modulation. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2021</b> , 15, 1348-1364	7.5	7
411	Deep Tomographic Image Reconstruction: Yesterday, Today, and Tomorrow Editorial for the 2nd Special Issue Machine Learning for Image Reconstruction <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 2956-2964	11.7	3
410	Algorithm Unrolling: Interpretable, Efficient Deep Learning for Signal and Image Processing. <i>IEEE Signal Processing Magazine</i> , <b>2021</b> , 38, 18-44	9.4	138
409	Artificial Intelligence and Early Detection of Pancreatic Cancer: 2020 Summative Review. <i>Pancreas</i> , <b>2021</b> , 50, 251-279	2.6	12
408	Dynamic Metasurface Antennas for 6G Extreme Massive MIMO Communications. <i>IEEE Wireless Communications</i> , <b>2021</b> , 28, 106-113	13.4	56
407	Communication-efficient federated learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	35
406	cSPARCOM: Multi-detector reconstruction by confocal super-resolution correlation microscopy. <i>Optics Express</i> , <b>2021</b> , 29, 12772-12786	3.3	2
405	Dynamic Metasurface Antennas for MIMO-OFDM Receivers With Bit-Limited ADCs. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 69, 2643-2659	6.9	11
404	Extended Cantor Arrays with Hole-Free Fourth-Order Difference Co-Arrays <b>2021</b> ,		3
403	COVID-19 classification of X-ray images using deep neural networks. <i>European Radiology</i> , <b>2021</b> , 31, 9654-9663	14	
402	Beam Focusing for Multi-User MIMO Communications with Dynamic Metasurface Antennas <b>2021</b> ,		4
401	<b>2021</b> ,		4
400	Kalmannet: Data-Driven Kalman Filtering <b>2021</b> ,		4
399	Bit Constrained Communication Receivers In Joint Radar Communications Systems <b>2021</b> ,		3
398	Point of Care Image Analysis for COVID-19 <b>2021</b> ,		4

397	Collaborative Inference via Ensembles on the Edge <b>2021</b> ,		2
396	Data-Driven Symbol Detection Via Model-Based Machine Learning <b>2021</b> ,		5
395	Super-Resolution Ultrasound Localization Microscopy Through Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 829-839	11.7	19
394	Phase retrieval of low-rank matrices by anchored regression. <i>Information and Inference</i> , <b>2021</b> , 10, 285-332.	4	
393	UVEQFed: Universal Vector Quantization for Federated Learning. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 500-514	4.8	35
392	Phase-Space Function Recovery for Moving Target Imaging in SAR by Convex Optimization. <i>IEEE Transactions on Computational Imaging</i> , <b>2021</b> , 1-1	4.5	0
391	BiLiMO: Bit-Limited MIMO Radar via Task-Based Quantization. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 1-1	4.8	1
390	Phase Transitions in Frequency Agile Radar Using Compressed Sensing. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 4801-4818	4.8	8
389	Sparse Convolutional Beamforming for 3-D Ultrafast Ultrasound Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 2444-2459	3.2	0
388	Over-the-Air Federated Learning From Heterogeneous Data. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 3796-3811	4.8	24
387	Massive MIMO as an Extreme Learning Machine. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 1046-1050	6.8	6
386	Ensemble Wrapper Subsampling for Deep Modulation Classification. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2021</b> , 1-1	6.6	1
385	Introduction to Information Theory and Data Science. <b>2021</b> , 1-43		
384	Graph Unrolling Networks: Interpretable Neural Networks for Graph Signal Denoising. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 3699-3713	4.8	2
383	Deep Learning for Ultrasound Image Formation: CUBDL Evaluation Framework and Open Datasets. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 3466-3483	3.2	10
382	Serial Quantization for Sparse Time Sequences. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 3299-3314.	4.8	
381	Deep Task-Based Quantization. <i>Entropy</i> , <b>2021</b> , 23,	2.8	16
380	Compressed Ultrasound Imaging: from Sub-Nyquist Rates to Super-Resolution. <i>IEEE BITS the Information Theory Magazine</i> , <b>2021</b> , 1-1		

379	<b>2021,</b>			1
378	Structured LISTA for Multidimensional Harmonic Retrieval. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 3459-3472	4.8		5
377	Unitary Approximate Message Passing for Sparse Bayesian Learning. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 1-1	4.8		5
376	Learned Super Resolution Ultrasound for Improved Breast Lesion Characterization. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 109-118	0.9		3
375	DeepSIC: Deep Soft Interference Cancellation for Multiuser MIMO Detection. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 20, 1349-1362	9.6		17
374	Spatial Modulation for Joint Radar-Communications Systems: Design, Analysis, and Hardware Prototype. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 2283-2298	6.8		18
373	Deep Networks for Direction-of-Arrival Estimation in Low SNR. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 3714-3729	4.8		9
372	Task-Based Analog-to-Digital Converters. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 1-1	4.8		4
371	An Information-Theoretic Approach to Analog-to-Digital Compression <b>2021</b> , 44-71			
370	Deep Unfolded Recovery of Sub-Nyquist Sampled Ultrasound Images. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 3484-3496	3.2		3
369	Unambiguous Delay-Doppler Recovery From Random Phase Coded Pulses. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 4991-5004	4.8		1
368	Jointly Learned Symbol Detection and Signal Reflection in RIS-Aided Multi-user MIMO Systems <b>2021</b> ,			3
367	Deep Soft Interference Cancellation for MIMO Detection <b>2020</b> ,			7
366	Federated Learning with Quantization Constraints <b>2020</b> ,			21
365	RF Chain Reduction for MIMO Systems: A Hardware Prototype. <i>IEEE Systems Journal</i> , <b>2020</b> , 14, 5296-5307.	4.3		15
364	Automotive Dual-Function Radar Communications Systems: An Overview <b>2020</b> ,			1
363	Dynamic Metasurface Antennas for Bit-Constrained MIMO-OFDM Receivers <b>2020</b> ,			1
362	MAJoRCom: A Dual-Function Radar Communication System Using Index Modulation. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 3423-3438	4.8		41

361	Super-resolution photoacoustic and ultrasound imaging with sparse arrays. <i>Scientific Reports</i> , <b>2020</b> , 10, 4637	4.9	11
360	Pilot Sequence Design for Mitigating Pilot Contamination With Reduced RF Chains. <i>IEEE Transactions on Communications</i> , <b>2020</b> , 68, 3536-3549	6.9	10
359	Blind Phaseless Short-Time Fourier Transform Recovery. <i>IEEE Transactions on Information Theory</i> , <b>2020</b> , 66, 3232-3241	2.8	9
358	Joint Radar-Communication Strategies for Autonomous Vehicles: Combining Two Key Automotive Technologies. <i>IEEE Signal Processing Magazine</i> , <b>2020</b> , 37, 85-97	9.4	73
357	Joint Transmit Beamforming for Multiuser MIMO Communications and MIMO Radar. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 3929-3944	4.8	73
356	ViterbiNet: A Deep Learning Based Viterbi Algorithm for Symbol Detection. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 3319-3331	9.6	47
355	Super-resolution Ultrasound Imaging. <i>Ultrasound in Medicine and Biology</i> , <b>2020</b> , 46, 865-891	3.5	83
354	Efficient and Interpretable Deep Blind Image Deblurring Via Algorithm Unrolling. <i>IEEE Transactions on Computational Imaging</i> , <b>2020</b> , 6, 666-681	4.5	38
353	Sparse Convolutional Beamforming for Wireless Ultrasound <b>2020</b> ,		2
352	Complex Trainable Ista for Linear and Nonlinear Inverse Problems <b>2020</b> ,		3
351	Generalized Sampling on Graphs With Subspace and Smoothness Priors. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 2272-2286	4.8	10
350	Functional Nonlinear Sparse Models. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 2449-2463	4.8	2
349	<b>2020</b> ,		6
348	Learned SPARCOM: unfolded deep super-resolution microscopy. <i>Optics Express</i> , <b>2020</b> , 28, 27736-27763	3.3	12
347	Enhancing the Kramers-Kronig receiver via dispersion-based spatial diversity. <i>Optics Letters</i> , <b>2020</b> , 45, 3494-3497	3	3
346	Data-driven symbol detection via model-based machine learning. <i>Communications in Information and Systems</i> , <b>2020</b> , 20, 283-317	0.8	7
345	Task-based quantization with application to MIMO receivers. <i>Communications in Information and Systems</i> , <b>2020</b> , 20, 131-162	0.8	7
344	Hardware prototype demonstration of a cognitive radar with sparse array antennas. <i>Electronics Letters</i> , <b>2020</b> , 56, 1210-1212	1.1	1

343	Convolutional Phase Retrieval via Gradient Descent. <i>IEEE Transactions on Information Theory</i> , <b>2020</b> , 66, 1785-1821	2.8	8
342	A Block Sparsity Based Estimator for mmWave Massive MIMO Channels With Beam Squint. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 49-64	4.8	25
341	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2020</b> , 56, 2806-2822	3.7	8
340	Adaptive Ultrasound Beamforming Using Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 3967-3978	11.7	39
339	A DFRC System Based on Multi-Carrier Agile FMCW MIMO Radar for Vehicular Applications <b>2020</b> ,		6
338	Enhanced Channel Estimation in Massive MIMO via Coordinated Pilot Design. <i>IEEE Transactions on Communications</i> , <b>2020</b> , 68, 6872-6885	6.9	2
337	Multi-Carrier Agile Phased Array Radar. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 5706-5721	4.8	11
336	The Communication-Aware Clustered Federated Learning Problem <b>2020</b> ,		11
335	Identifiability Conditions for Compressive Multichannel Blind Deconvolution. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 4627-4642	4.8	3
334	Data-Driven Factor Graphs for Deep Symbol Detection <b>2020</b> ,		14
333	On Throughput of Millimeter Wave MIMO Systems with Low Resolution ADCs <b>2020</b> ,		3
332	Sparse Array Design via Fractal Geometries. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 4797-4812	4.8	15
331	. <i>IEEE Signal Processing Magazine</i> , <b>2020</b> , 37, 14-30	9.4	26
330	Deep Learning in Medical Ultrasound—from Image Formation to Image Analysis. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2020</b> , 67, 2477-2480	3.2	4
329	On signal reconstruction from FROG measurements. <i>Applied and Computational Harmonic Analysis</i> , <b>2020</b> , 48, 1030-1044	3.1	8
328	Sensor calibration for off-the-grid spectral estimation. <i>Applied and Computational Harmonic Analysis</i> , <b>2020</b> , 48, 570-598	3.1	5
327	Deep Unfolded Robust PCA With Application to Clutter Suppression in Ultrasound. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 1051-1063	11.7	61
326	The Capacity of Memoryless Channels With Sampled Cyclostationary Gaussian Noise. <i>IEEE Transactions on Communications</i> , <b>2020</b> , 68, 106-121	6.9	1

325	The Global Optimization Geometry of Shallow Linear Neural Networks. <i>Journal of Mathematical Imaging and Vision</i> , <b>2020</b> , 62, 279-292	1.6	3
324	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2020</b> , 56, 937-955	3.7	11
323	Coupled Dictionary Learning for Multi-Contrast MRI Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 621-633	11.7	19
322	Deep Learning in Ultrasound Imaging. <i>Proceedings of the IEEE</i> , <b>2020</b> , 108, 11-29	14.3	78
321	Learning Task-Based Analog-to-Digital Conversion for MIMO Receivers <b>2020</b> ,		6
320	Coordinated Pilot Design for Massive MIMO <b>2019</b> ,		3
319	Deep Quantization for MIMO Channel Estimation <b>2019</b> ,		7
318	iMAP Beamforming for High-Quality High Frame Rate Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2019</b> , 66, 1830-1844	3.2	6
317	Dynamic Metasurface Antennas Based Downlink Massive MIMO Systems <b>2019</b> ,		6
316	Dictionary Learning for Adaptive GPR Landmine Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2019</b> , 57, 10036-10055	8.1	14
315	A Dual-Function Radar Communication System Using Index Modulation <b>2019</b> ,		5
314	Hardware-Limited Task-Based Quantization. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 5223-5238	4.8	30
313	Radar and Communication Coexistence: An Overview: A Review of Recent Methods. <i>IEEE Signal Processing Magazine</i> , <b>2019</b> , 36, 85-99	9.4	135
312	Task-Based Quantization for Recovering Quadratic Functions Using Principal Inertia Components <b>2019</b> ,		16
311	Joint Sampling and Recovery of Correlated Sources <b>2019</b> ,		4
310	Sub-Nyquist Radar: Principles and Prototypes <b>2019</b> , 1-48		
309	Robust Simultaneous Wireless Information and Power Transfer in Beam-space Massive MIMO. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 4199-4212	9.6	8
308	Cognitive radar antenna selection via deep learning. <i>IET Radar, Sonar and Navigation</i> , <b>2019</b> , 13, 871-880	1.4	38



307	Parallel Coordinate Descent Algorithms for Sparse Phase Retrieval <b>2019</b> ,		5
306	Optimal Number of Measurements in a Linear System With Quadratically Decreasing SNR. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 2947-2959	4.8	1
305	Deep Learning for Super-resolution Vascular Ultrasound Imaging <b>2019</b> ,		19
304	Sparse Fractal Array Design with Increased Degrees of Freedom <b>2019</b> ,		12
303	<b>2019</b> ,		4
302	Deep Learning for Fast Adaptive Beamforming <b>2019</b> ,		20
301	Magnetic Resonance Fingerprinting Using a Residual Convolutional Neural Network <b>2019</b> ,		3
300	A Family of Hybrid AnalogDigital Beamforming Methods for Massive MIMO Systems. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 3243-3257	4.8	42
299	Deep Convolutional Robust PCA with Application to Ultrasound Imaging <b>2019</b> ,		5
298	An Algorithm Unrolling Approach to Deep Image Deblurring <b>2019</b> ,		12
297	Spectral Efficiency of Noncooperative Uplink Massive MIMO Systems with Joint Decoding <b>2019</b> ,		1
296	Deep Signal Recovery with One-bit Quantization <b>2019</b> ,		25
295	Exploiting Flow Dynamics for Superresolution in Contrast-Enhanced Ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2019</b> , 66, 1573-1586	3.2	13
294	Asymptotic Task-Based Quantization With Application to Massive MIMO. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 3995-4012	4.8	20
293	HYDRA: Hybrid deep magnetic resonance fingerprinting. <i>Medical Physics</i> , <b>2019</b> , 46, 4951-4969	4.4	14
292	Dynamic Metasurface Antennas for Uplink Massive MIMO Systems. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 6829-6843	6.9	44
291	Frequency Agile Radar Using Atomic Norm Soft Thresholding with Modulations <b>2019</b> ,		2
290	CNN-Based Cognitive Radar Array Selection <b>2019</b> ,		2

289	Compressed LISTA Exploiting Toeplitz Structure <b>2019</b> ,		2
288	Tradeoff Between Delay and High SNR Capacity in Quantized MIMO Systems <b>2019</b> ,		6
287	Rapid quantum image scanning microscopy by joint sparse reconstruction. <i>Optica</i> , <b>2019</b> , 6, 1290	8.6	10
286	. <i>IEEE Signal Processing Magazine</i> , <b>2019</b> , 36, 125-131	9.4	1
285	SPARCOM: Sparsity Based Super-resolution Correlation Microscopy. <i>SIAM Journal on Imaging Sciences</i> , <b>2019</b> , 12, 392-419	1.9	14
284	Multi-Carrier Agile Phased Array Radar <b>2019</b> ,		2
283	Deep Neural Network Symbol Detection for Millimeter Wave Communications <b>2019</b> ,		9
282	Serial Quantization for Representing Sparse Signals <b>2019</b> ,		2
281	Deep-Sparse Array Cognitive Radar <b>2019</b> ,		5
280	Modeling and Recovery of Graph Signals and Difference-Based Signals <b>2019</b> ,		6
279	Beam Alignment and Tracking for Autonomous Vehicular Communication using IEEE 802.11ad-based Radar <b>2019</b> ,		15
278	On Multiterminal Communication over MIMO Channels with One-bit ADCs at the Receivers <b>2019</b> ,		5
277	Frequency-Resolved Optical Gating Recovery via Smoothing Gradient. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 6121-6132	4.8	1
276	Hardware-Limited Task-Based Quantization <b>2019</b> ,		2
275	Semi-Supervised Learning in Network-Structured Data via Total Variation Minimization. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 6256-6269	4.8	7
274	Deep Learning for Interference Identification: Band, Training SNR, and Sample Selection <b>2019</b> ,		13
273	On the Sample Complexity of Multichannel Frequency Estimation via Convex Optimization. <i>IEEE Transactions on Information Theory</i> , <b>2019</b> , 65, 2302-2315	2.8	12
272	The Distortion-Rate Function of Sampled Wiener Processes. <i>IEEE Transactions on Information Theory</i> , <b>2019</b> , 65, 482-499	2.8	8

271	Sampling and Super Resolution of Sparse Signals Beyond the Fourier Domain. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 1508-1521	4.8	7
270	TenDSuR: Tensor-Based 4D Sub-Nyquist Radar. <i>IEEE Signal Processing Letters</i> , <b>2019</b> , 26, 237-241	3.2	11
269	On the Spectral Efficiency of Noncooperative Uplink Massive MIMO Systems. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 1956-1971	6.9	10
268	Guest Editorial Special Issue on Sparsity Driven Methods in Medical Ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 297-299	3.2	
267	On Fienup Methods for Sparse Phase Retrieval. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 982-991	4.8	24
266	Sparse Estimation of Faults by Compressed Sensing With Structural Constraints. <i>IEEE Transactions on Power Systems</i> , <b>2018</b> , 33, 5935-5944	7	5
265	Analog-to-Digital Cognitive Radio: Sampling, Detection, and Hardware. <i>IEEE Signal Processing Magazine</i> , <b>2018</b> , 35, 137-166	9.4	40
264	Tradeoffs Between Convergence Speed and Reconstruction Accuracy in Inverse Problems. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 1676-1690	4.8	27
263	The Distortion Rate Function of Cyclostationary Gaussian Processes. <i>IEEE Transactions on Information Theory</i> , <b>2018</b> , 64, 3810-3824	2.8	11
262	Analog-to-Digital Compression: A New Paradigm for Converting Signals to Bits. <i>IEEE Signal Processing Magazine</i> , <b>2018</b> , 35, 16-39	9.4	26
261	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2018</b> , 54, 1279-1296	3.7	54
260	Centralized Identification of Imbalances in Power Networks With Synchrophasor Data. <i>IEEE Transactions on Power Systems</i> , <b>2018</b> , 33, 1981-1992	7	9
259	13-fold resolution gain through turbid layer via translated unknown speckle illumination. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 260-275	3.5	20
258	Sparsity-based super-resolution microscopy from correlation information. <i>Optics Express</i> , <b>2018</b> , 26, 18233-18269	3.3	23
257	Fourier-Domain Beamforming and Structure-Based Reconstruction for Plane-Wave Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 1810-1821	3.2	12
256	. <i>IEEE Transactions on Information Theory</i> , <b>2018</b> , 64, 6013-6033	2.8	15
255	SUMMeR: Sub-Nyquist MIMO Radar. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 4315-4330	4.8	31
254	Non-Convex Phase Retrieval From STFT Measurements. <i>IEEE Transactions on Information Theory</i> , <b>2018</b> , 64, 467-484	2.8	46

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252	Blind Detection for Ambient Backscatter Communication System with Multiple-Antenna tags <b>2018</b> ,		4
251	Coupled Dictionary Learning for Multi-Contrast MRI Reconstruction <b>2018</b> ,		5
250	The Nystrom Extension for Signals Defined on a Graph <b>2018</b> ,		2
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214	The network nullspace property for compressed sensing over networks <b>2017</b> ,		4
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208	A unified view of diffusion maps and signal processing on graphs <b>2017</b> ,		8
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206	Compressed sensing under optimal quantization <b>2017</b> ,		19
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195	Cognitive sub-Nyquist hardware prototype of a collocated MIMO radar <b>2016</b> ,		17
194	Reduced time-on-target in pulse Doppler radar: Slow time domain compressed sensing <b>2016</b> ,		11
193	Towards sub-nyquist cognitive radar <b>2016</b> ,		11
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1	Deep Unfolded Robust PCA with Application to Clutter Suppression in Ultrasound
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