

Robert W Heath Jr

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4629636/robert-w-heath-jr-publications-by-year.pdf>

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

676
papers

39,696
citations

94
h-index

186
g-index

753
ext. papers

50,697
ext. citations

6
avg, IF

8.22
L-index

#	Paper	IF	Citations
676	Massive MIMO Precoding and Spectral Shaping with Low Resolution Phase-only DACs and Active Constellation Extension. <i>IEEE Transactions on Wireless Communications</i> , 2022 , 1-1	9.6	0
675	Editorial Issue on Information Theoretic Foundations of Future Communication Systems <i>IEEE Journal on Selected Areas in Information Theory</i> , 2022 , 3, 2-4	2.5	
674	Artificial Intelligence for Physical-Layer Design of MIMO Communications With One-Bit ADCs. <i>IEEE Communications Magazine</i> , 2022 , 1-7	9.1	1
673	Leveraging Waveform Structure to Develop a Power Scalable AoA Estimation. <i>IEEE Open Journal of the Communications Society</i> , 2021 , 2, 2739-2759	6.7	
672	Single Channel Equivalent Point Processes of Poisson Networks with Multiple Channel Laws. <i>IEEE Communications Letters</i> , 2021 , 1-1	3.8	0
671	Optimizing the mutual information of frequency-selective multi-port antenna arrays in the presence of mutual coupling. <i>IEEE Transactions on Communications</i> , 2021 , 1-1	6.9	1
670	Quantum Codes in Classical Communication: A Space-Time Block Code From Quantum Error Correction. <i>IEEE Open Journal of the Communications Society</i> , 2021 , 2, 2383-2412	6.7	
669	DeepWiPHY: Deep Learning-Based Receiver Design and Dataset for IEEE 802.11ax Systems. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 1596-1611	9.6	12
668	System and Design for Selective OFDM SWIPT Transmission. <i>IEEE Transactions on Green Communications and Networking</i> , 2021 , 5, 335-347	4	4
667	. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 3122-3136	9.6	4
666	Towards mmWave V2X in 5G and Beyond to Support Automated Driving. <i>IEEE Transactions on Communications</i> , 2021 , E104.B, 587-603	0.5	2
665	Perceptive Mobile Networks: Cellular Networks With Radio Vision via Joint Communication and Radar Sensing. <i>IEEE Vehicular Technology Magazine</i> , 2021 , 16, 20-30	9.9	18
664	Optimizing Coverage and Capacity in Cellular Networks using Machine Learning 2021 ,		8
663	Adaptive and Fast Combined Waveform-Beamforming Design for MMWave Automotive Joint Communication-Radar. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2021 , 15, 996-1012	7.5	8
662	. <i>IEEE Transactions on Communications</i> , 2021 , 69, 133-148	6.9	0
661	Signal Conditioning for Selective OFDM SWIPT Systems. <i>IEEE Open Journal of the Communications Society</i> , 2021 , 2, 1886-1900	6.7	
660	Power Scalable Angle of Arrival Estimation Using Pilot Design With Orthogonal Subsequences. <i>IEEE Open Journal of the Communications Society</i> , 2021 , 2, 1690-1709	6.7	1

659	An Overview of Signal Processing Techniques for Joint Communication and Radar Sensing. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2021 , 1-1	7.5	45
658	Line-of-Sight Probability for mmWave-Based UAV Communications in 3D Urban Grid Deployments. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	12
657	JCR70: A Low-Complexity Millimeter-Wave Proof-of-Concept Platform for a Fully-Digital SIMO Joint Communication-Radar. <i>IEEE Open Journal of Vehicular Technology</i> , 2021 , 2, 218-234	5.3	6
656	Signal Conditioning and Prototyping for Selective OFDM Systems with Simultaneous Wireless Information and Power Transfer 2021 ,		1
655	Achievable Rate with Antenna Size Constraint: Shannon meets Chu and Bode. <i>IEEE Transactions on Communications</i> , 2021 , 1-1	6.9	1
654	InFocus: A spatial coding technique to mitigate misfocus in near-field LoS beamforming. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	5
653	Improved CRB for Millimeter-Wave Radar With 1-Bit ADCs. <i>IEEE Open Journal of Signal Processing</i> , 2021 , 2, 318-335	1.2	
652	Challenges and Opportunities of Future Rural Wireless Communications. <i>IEEE Communications Magazine</i> , 2021 , 59, 16-22	9.1	3
651	Deep Learning-Based Beam Alignment in Mmwave Vehicular Networks 2020 ,		5
650	Submitting Columns and Forums to SPM [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2020 , 37, 3-4	9.4	
649	Message Passing-Based Link Configuration in Short Range Millimeter Wave Systems. <i>IEEE Transactions on Communications</i> , 2020 , 68, 3465-3479	6.9	2
648	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020 , 56, 1926-1941	3.7	47
647	What Does an Editor-in-Chief of IEEE Signal Processing Magazine Do, Anyway? [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2020 , 37, 3-4	9.4	
646	Low-Rank MMWAVE MIMO Channel Estimation in One-Bit Receivers 2020 ,		3
645	Beamforming optimization of wideband MISO systems in the presence of mutual coupling 2020 ,		1
644	Waveform Design and Accurate Channel Estimation for Frequency-Hopping MIMO Radar-Based Communications. <i>IEEE Transactions on Communications</i> , 2020 , 1-1	6.9	23
643	A MIMO Joint Communication-Radar Measurement Platform at the Millimeter-Wave Band : (Invited Paper) 2020 ,		1
642	Revisiting Research on Signal Processing for Communications in a Pandemic [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2020 , 37, 3-5	9.4	1

641	A Low-Resolution ADC Proof-of-Concept Development for a Fully-Digital Millimeter-wave Joint Communication-Radar 2020 ,		3
640	High-Capacity Millimeter Wave UAV Communications 2020 , 203-229		0
639	Spatial Channel Covariance Estimation for Hybrid Architectures Based on Tensor Decompositions. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 1084-1097	9.6	5
638	. <i>IEEE Transactions on Signal Processing</i> , 2020 , 68, 715-730	4.8	42
637	Double-Sequence Frequency Synchronization for Wideband Millimeter-Wave Systems With Few-Bit ADCs. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 1357-1372	9.6	5
636	A Quaternion-Based Approach to Construct Quaternary Periodic Complementary Pairs. <i>IEEE Communications Letters</i> , 2020 , 24, 2010-2014	3.8	0
635	Collision-Free UAV Navigation with a Monocular Camera Using Deep Reinforcement Learning 2020 ,		4
634	Deep Learning-based Carrier Frequency Offset Estimation with One-Bit ADCs 2020 ,		7
633	Communications and Sensing: An Opportunity for Automotive Systems [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2020 , 37, 3-13	9.4	6
632	Hover or Perch: Comparing Capacity of Airborne and Landed Millimeter-Wave UAV Cells. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 2059-2063	5.9	5
631	Accurate Channel Estimation for Frequency-Hopping Dual-Function Radar Communications 2020 ,		7
630	Non-Stationarities in Extra-Large-Scale Massive MIMO. <i>IEEE Wireless Communications</i> , 2020 , 27, 74-80	13.4	39
629	Reflections on Tutorials and Surveys [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2020 , 37, 3-4	9.4	
628	Leveraging Sensing at the Infrastructure for mmWave Communication. <i>IEEE Communications Magazine</i> , 2020 , 58, 84-89	9.1	18
627	Linear CE and 1-bit Quantized Precoding With Optimized Dithering. <i>IEEE Open Journal of Signal Processing</i> , 2020 , 1, 310-325	1.2	1
626	Joint Channel-Estimation/Decoding With Frequency-Selective Channels and Few-Bit ADCs. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 899-914	4.8	8
625	Directional Frame Timing Synchronization in Wideband Millimeter-Wave Systems With Low-Resolution ADCs. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 5350-5366	9.6	6
624	Channel Estimation for Orthogonal Time Frequency Space (OTFS) Massive MIMO 2019 ,		7

623	Feedback from the IEEE Signal Processing Magazine Board Meeting in 2019 [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2019 , 36, 3-4	9.4	
622	Optimal Frequency-Flat Precoding for Frequency-Selective Millimeter Wave Channels. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 5098-5112	9.6	15
621	Side-information-aided Noncoherent Beam Alignment Design for Millimeter Wave Systems 2019 ,		5
620	Position and LIDAR-Aided mmWave Beam Selection using Deep Learning 2019 ,		18
619	Connectivity and Blockage Effects in Millimeter-Wave Air-To-Everything Networks. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 388-391	5.9	12
618	. <i>IEEE Transactions on Communications</i> , 2019 , 67, 1238-1253	6.9	9
617	Vehicular Applications of Signal Processing [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2019 , 36, 3-6	9.4	1
616	Going Toward 6G [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2019 , 36, 3-4	9.4	15
615	Deep Learning Propagation Models over Irregular Terrain 2019 ,		8
614	. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 3064-3077	9.6	18
613	Localized Random Sampling for Robust Compressive Beam Alignment 2019 ,		1
612	Tensor-based Estimation of mmWave MIMO Channels with Carrier Frequency Offset 2019 ,		8
611	Guest Editorial Ultra-Reliable Low-Latency Communications in Wireless Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 701-704	14.2	6
610	IEEE Signal Processing Magazine and University Rankings [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2019 , 36, 3-4	9.4	6
609	Online Learning for Position-Aided Millimeter Wave Beam Training. <i>IEEE Access</i> , 2019 , 7, 30507-30526	3.5	47
608	Linear Receivers in Non-Stationary Massive MIMO Channels With Visibility Regions. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 885-888	5.9	27
607	Spatial Covariance Estimation for Millimeter Wave Hybrid Systems Using Out-of-Band Information. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 5471-5485	9.6	15
606	A Noncoherent Space-Time Code from Quantum Error Correction 2019 ,		4

605	. <i>IEEE Access</i> , 2019 , 7, 87479-87493	3.5	33
604	Channel Estimation for Orthogonal Time Frequency Space (OTFS) Massive MIMO. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 4204-4217	4.8	74
603	A Geometry-aided Message Passing Method for AoA-Based Short Range MIMO Channel Estimation 2019 ,		2
602	Capacity Based Optimization of Compact Wideband Antennas 2019 ,		4
601	Organizing a Special Issue of IEEE SPM [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2019 , 36, 3-4	9.4	3
600	Making a Good Feature Article Submission [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2019 , 36, 3-4	9.4	4
599	LIDAR Data for Deep Learning-Based mmWave Beam-Selection. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 909-912	5.9	45
598	Selective OFDM Transmission for Simultaneous Wireless Information and Power Transfer 2019 ,		1
597	A Combined Waveform-Beamforming Design for Millimeter-Wave Joint Communication-Radar 2019 ,		3
596	Short Range 3D MIMO mmWave Channel Reconstruction via Geometry-aided AoA Estimation 2019 ,		1
595	Capacity Based Analysis of a Wideband SIMO System in the Presence of Mutual Coupling 2019 ,		4
594	Analysis of Intelligent Vehicular Relaying in Urban 5G+ Millimeter-Wave Cellular Deployments 2019 ,		7
593	Modeling and Analysis of MmWave V2X Networks With Vehicular Platoon Systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 2851-2866	14.2	19
592	FALP: Fast Beam Alignment in mmWave Systems With Low-Resolution Phase Shifters. <i>IEEE Transactions on Communications</i> , 2019 , 67, 8739-8753	6.9	14
591	MIMO Channel Estimation with Non-Ideal ADCs: Deep Learning Versus GAMP 2019 ,		6
590	Swift-Link: A Compressive Beam Alignment Algorithm for Practical mmWave Radios. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 1104-1119	4.8	11
589	Multibeam for Joint Communication and Radar Sensing Using Steerable Analog Antenna Arrays. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 671-685	6.8	73
588	. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 3012-3027	6.8	218

587	Frequency-Domain Compressive Channel Estimation for Frequency-Selective Hybrid Millimeter Wave MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 2946-2960	9.6	123
586	. <i>IEEE Communications Magazine</i> , 2018 , 56, 196-203	9.1	27
585	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2018 , 12, 353-367	7.5	84
584	Forward Collision Vehicular Radar With IEEE 802.11: Feasibility Demonstration Through Measurements. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 1404-1416	6.8	33
583	. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 4042-4058	6.8	85
582	. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 1038-1052	9.6	101
581	Ergodic Rate of Millimeter Wave Ad Hoc Networks. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 914-926	9.6	7
580	Macrodiversity in Cellular Networks With Random Blockages. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 996-1010	9.6	44
579	Channel Estimation in Broadband Millimeter Wave MIMO Systems With Few-Bit ADCs. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 1141-1154	4.8	167
578	Taking the Next Step for IEEE Signal Processing Magazine [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2018 , 35, 4-171	9.4	1
577	Compressive Sensing for Millimeter Wave Antenna Array Diagnosis. <i>IEEE Transactions on Communications</i> , 2018 , 66, 2708-2721	6.9	26
576	One-Bit Sphere Decoding for Uplink Massive MIMO Systems With One-Bit ADCs. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 4509-4521	9.6	64
575	. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 7086-7100	6.8	56
574	Modeling Infrastructure Sharing in mmWave Networks With Shared Spectrum Licenses. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2018 , 4, 328-343	6.6	15
573	Limited Feedback in Single and Multi-User MIMO Systems With Finite-Bit ADCs. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 3284-3297	9.6	14
572	Inter-Operator Base Station Coordination in Spectrum-Shared Millimeter Wave Cellular Networks. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2018 , 4, 513-528	6.6	17
571	Channel Feedback Based on AoD-Adaptive Subspace Codebook in FDD Massive MIMO Systems. <i>IEEE Transactions on Communications</i> , 2018 , 66, 5235-5248	6.9	51
570	A Low Complexity ML Detection for Uplink Massive MIMO Systems with One-Bit ADCs 2018 ,		3

569	A UAV-Based Traffic Monitoring System - Invited Paper 2018 ,		8
568	Securing mmWave Vehicular Communication Links with Multiple Transmit Antennas 2018 ,		8
567	Impact of Correlation between Link Blockages on Macro-Diversity Gains in mmWave Networks 2018 ,		10
566	Position-Aided Compressive Channel Estimation and Tracking for Millimeter Wave Multi-User MIMO Air-to-Air Communications 2018 ,		7
565	Impact of Measurement Noise on Millimeter Wave Beam Alignment Using Beam Subsets. <i>IEEE Wireless Communications Letters</i> , 2018 , 7, 784-787	5.9	1
564	Research Gems Found Digging with Industry [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2018 , 35, 4-18	9.4	1
563	Optimization of Power Transfer Efficiency and Energy Efficiency for Wireless-Powered Systems With Massive MIMO. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 7159-7172	9.6	54
562	High-Resolution Angle Tracking for Mobile Wideband Millimeter-Wave Systems With Antenna Array Calibration. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 7173-7189	9.6	35
561	Sparsity-aware adaptive beamforming design for IEEE 802.11ad-based joint communication-radar 2018 ,		14
560	A New Look at Physical Layer Security, Caching, and Wireless Energy Harvesting for Heterogeneous Ultra-Dense Networks 2018 , 56, 49-55		47
559	Foundations of MIMO Communication 2018 ,		66
558	Beamforming in Millimeter Wave Systems: Prototyping and Measurement Results 2018 ,		3
557	Vehicle-to-Vehicle Communication for Autonomous Vehicles: Safety and Maneuver Planning 2018 ,		2
556	Low Resolution Millimeter Wave Radar: Bounds and Performance 2018 ,		3
555	2018 ,		52
554	Making Papers, Code, and Data Accessible [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2018 , 35, 3-4	9.4	1
553	Towards Robustness: Machine Learning for MmWave V2X with Situational Awareness 2018 ,		4
552	MmWave Vehicular Beam Training with Situational Awareness by Machine Learning 2018 ,		10

551	Geometric Tracking of Vehicular mmWave Channels to Enable Machine Learning of Onboard Sensors 2018 ,		2
550	Virtual Pulse Design for IEEE 802.11AD-Based Joint Communication-Radar 2018 ,		4
549	SPATIAL CHANNEL COVARIANCE ESTIMATION FOR THE HYBRID ARCHITECTURE AT A BASE STATION: A TENSOR-DECOMPOSITION-BASED APPROACH 2018 ,		3
548	Millimeter Wave V2X Communications: Use Cases and Design Considerations of Beam Management 2018 ,		15
547	Detection and Channel Equalization with Deep Learning for Low Resolution MIMO Systems 2018 ,		11
546	Spatial Zadoff-Chu Modulation for Rapid Beam Alignment in mmWave Phased Arrays 2018 ,		5
545	Introducing the New Editorial Team of IEEE Signaling Processing Magazine [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2018 , 35, 4-5	9.4	2
544	The Information and Wave-Theoretic Limits of Analog Beamforming 2018 ,		1
543	GlobalSIP and Beyond [From the Editor]. <i>IEEE Signal Processing Magazine</i> , 2018 , 35, 3-15	9.4	2
542	5G MIMO Data for Machine Learning: Application to Beam-Selection Using Deep Learning 2018 ,		66
541	Wireless Power Transfer in Millimeter Wave 2018 , 139-156		2
540	A primer on information theory and MMSE estimation 2018 , 3-56		
539	A signal processing perspective 2018 , 57-130		
538	Channel modeling 2018 , 131-208		
537	Single-user SISO 2018 , 209-294		
536	SU-MIMO with optimum receivers 2018 , 297-385		
535	SU-MIMO with linear receivers 2018 , 386-412		
534	Multuser communication prelude 2018 , 415-435		

533 MU-MIMO with optimum transceivers **2018**, 436-496

532 MU-MIMO with linear transceivers **2018**, 497-577

531 Massive MIMO **2018**, 578-642

530 Transforms **2018**, 649-652

529 Random variables and processes **2018**, 661-673

528 Gradient operator **2018**, 674-675

527 Landau symbols **2018**, 680-680

526 Convex optimization **2018**, 681-684

525 Analysis of Blockage Sensing by Radars in Random Cellular Networks. *IEEE Signal Processing Letters*, **2018**, 25, 1620-1624 3.2 5

524 Low-Overhead Receiver-Side Channel Tracking for Mmwave Mimo **2018**, 1

523 MmWave MU-MIMO for Aerial Networks **2018**, 20

522 Spatial Channel Covariance Estimation for the Hybrid MIMO Architecture: A Compressive Sensing-Based Approach. *IEEE Transactions on Wireless Communications*, **2018**, 17, 8047-8062 9.6 33

521 MmWave Beam Prediction with Situational Awareness: A Machine Learning Approach **2018**, 36

520 Low Resolution Sampling for Joint Millimeter-Wave MIMO Communication-Radar **2018**, 6

519 . *IEEE Transactions on Wireless Communications*, **2018**, 17, 3861-3876 9.6 3

518 Algorithms for the construction of incoherent frames under various design constraints. *Signal Processing*, **2018**, 152, 363-372 4.4 13

517 The Impact of Beamwidth on Temporal Channel Variation in Vehicular Channels and Its Implications. *IEEE Transactions on Vehicular Technology*, **2017**, 66, 5014-5029 6.8 120

516 . *IEEE Transactions on Aerospace and Electronic Systems*, **2017**, 53, 1597-1613 3.7 13

515	Measurements of the 60 GHz UE to eNB Channel for Small Cell Deployments. <i>IEEE Wireless Communications Letters</i> , 2017 , 6, 178-181	5.9	27
514	Exploiting Spatial Channel Covariance for Hybrid Precoding in Massive MIMO Systems. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 3818-3832	4.8	81
513	Wireless Power Transfer in Millimeter Wave Tactical Networks. <i>IEEE Signal Processing Letters</i> , 2017 , 24, 1284-1287	3.2	11
512	Auxiliary Beam Pair Enabled AoD and AoA Estimation in Closed-Loop Large-Scale Millimeter-Wave MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 4770-4785	9.6	64
511	Delay and Doppler processing for multi-target detection with IEEE 802.11 OFDM signaling 2017 ,		9
510	Hybrid precoding using long-term channel statistics for massive MIMO systems 2017 ,		2
509	Performance trade-off in an adaptive IEEE 802.11AD waveform design for a joint automotive radar and communication system 2017 ,		11
508	Multi-Layer Precoding: A Potential Solution for Full-Dimensional Massive MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 5810-5824	9.6	23
507	Energy-Efficient Massive MIMO: Wireless-Powered Communication, Multiuser MIMO with Hybrid Precoding, and Cloud Radio Access Network with Variable-Resolution ADCs. <i>IEEE Microwave Magazine</i> , 2017 , 18, 18-30	1.2	24
506	Experimental evaluation in wireless communications. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2017 , 2017,	3.2	1
505	Dynamic Subarrays for Hybrid Precoding in Wideband mmWave MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 2907-2920	9.6	200
504	Initial Beam Association in Millimeter Wave Cellular Systems: Analysis and Design Insights. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 2807-2821	9.6	70
503	Secure Communications in Millimeter Wave Ad Hoc Networks. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 3205-3217	9.6	102
502	FER Estimation in a Memoryless BSC With Variable Frame Length and Unreliable ACK/NAK Feedback. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 3661-3673	9.6	1
501	Optimality of Frequency Flat Precoding in Frequency Selective Millimeter Wave Channels. <i>IEEE Wireless Communications Letters</i> , 2017 , 6, 330-333	5.9	19
500	Hybrid Architectures With Few-Bit ADC Receivers: Achievable Rates and Energy-Rate Tradeoffs. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 2274-2287	9.6	120
499	Enclosed mmWave Wearable Networks: Feasibility and Performance. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 2300-2313	9.6	6
498	. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 8139-8151	6.8	56

497	Framework for an Innovative Perceptive Mobile Network Using Joint Communication and Sensing 2017,		12
496	A compressive sensing-maximum likelihood approach for off-grid wideband channel estimation at mmWave 2017,		5
495	Accurately Accounting for Random Blockage in Device-to-Device mmWave Networks 2017,		5
494	Joint channel-estimation/decoding with frequency-selective channels and few-bit ADCs 2017,		5
493	AoD-adaptive subspace codebook for channel feedback in FDD massive MIMO systems 2017,		11
492	Wirelessly Powered Communication Networks With Short Packets. <i>IEEE Transactions on Communications, 2017, 65, 5529-5543</i>	6.9	24
491	Achievable uplink rates for massive MIMO with coarse quantization 2017,		14
490	Analysis of interference mitigation in mmWave communications 2017,		11
489	. <i>IEEE Transactions on Communications, 2017, 65, 3962-3975</i>	6.9	21
488	Channel Estimation for Hybrid Architecture-Based Wideband Millimeter Wave Systems. <i>IEEE Journal on Selected Areas in Communications, 2017, 35, 1996-2009</i>	14.2	190
487	Wireless Powered Dense Cellular Networks: How Many Small Cells Do We Need?. <i>IEEE Journal on Selected Areas in Communications, 2017, 35, 2010-2024</i>	14.2	31
486	Uplink Performance of Wideband Massive MIMO With One-Bit ADCs. <i>IEEE Transactions on Wireless Communications, 2017, 16, 87-100</i>	9.6	194
485	A Stochastic Geometry Analysis of Large-Scale Cooperative Wireless Networks Powered by Energy Harvesting. <i>IEEE Transactions on Communications, 2017, 65, 3343-3358</i>	6.9	11
484	Joint Communications and Sensing Using Two Steerable Analog Antenna Arrays 2017,		7
483	. <i>IEEE Transactions on Wireless Communications, 2017, 16, 7890-7905</i>	9.6	30
482	Millimeter-Wave Communication with Out-of-Band Information 2017, 55, 140-146		55
481	Hybrid MMSE Precoding and Combining Designs for mmWave Multiuser Systems. <i>IEEE Access, 2017, 5, 19167-19181</i>	3.5	76
480	Blockage and Coverage Analysis with MmWave Cross Street BSs Near Urban Intersections 2017,		17

479	A compressive channel estimation technique robust to synchronization impairments 2017 ,		12
478	Fast Link Configuration for mmWave Multiuser MIMO Downlink Using Spatial AoD Angular Supports 2017 ,		2
477	Exploiting Common Sparsity for Frequency-Domain Wideband Channel Estimation at mmWave 2017 ,		2
476	Identifying coverage holes: Where to densify? 2017 ,		1
475	Tracking abruptly changing channels in mmWave systems using overlaid data and training 2017 ,		3
474	Joint CFO and channel estimation in millimeter wave systems with one-bit ADCs 2017 ,		9
473	Position-aided millimeter wave V2I beam alignment: A learning-to-rank approach 2017 ,		22
472	Time-domain channel estimation for wideband millimeter wave systems with hybrid architecture 2017 ,		29
471	A frequency-domain approach to wideband channel estimation in millimeter wave systems 2017 ,		3
470	Analyzing wireless power transfer in millimeter wave networks with human blockages 2017 ,		1
469	Energy Efficiency of Wireless Information and Power Transfer with Massive MIMO 2017 ,		4
468	Directional timing synchronization in wideband millimeter wave cellular systems with low-resolution ADCs 2017 ,		3
467	Where, When, and How mmWave is Used in 5G and Beyond. <i>IEICE Transactions on Electronics</i> , 2017 , E100.C, 790-808	0.4	87
466	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 6217-6231	6.8	25
465	. <i>IEEE Transactions on Communications</i> , 2016 , 64, 3981-3995	6.9	66
464	Location based performance model for indoor mmWave wearable communication 2016 ,		12
463	Rate analysis and feasibility of dynamic TDD in 5G cellular systems 2016 ,		33
462	Analyzing Uplink SINR and Rate in Massive MIMO Systems Using Stochastic Geometry. <i>IEEE Transactions on Communications</i> , 2016 , 64, 4592-4606	6.9	43

461	Millimeter Wave: The Future of Commercial Wireless Systems 2016,		9
460	Robust Analog Precoding Designs for Millimeter Wave MIMO Transceivers With Frequency and Time Division Duplexing. <i>IEEE Transactions on Communications</i> , 2016 , 64, 4622-4634	6.9	12
459	Millimeter Wave Vehicular Communications: A Survey. <i>Foundations and Trends in Networking</i> , 2016 , 10, 1-113		111
458	Properties of real and complex ETFs and their application to the design of low coherence frames. <i>Linear Algebra and Its Applications</i> , 2016 , 508, 81-90	0.9	0
457	LTE-advanced pro: part 2 [Guest Editorial] 2016 , 54, 12-13		3
456	Gains of Restricted Secondary Licensing in Millimeter Wave Cellular Systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 2935-2950	14.2	27
455	2016 , 54, 52-53		4
454	. <i>IEEE Transactions on Communications</i> , 2016 , 1-1	6.9	330
453	Dynamic subarray architecture for wideband hybrid precoding in millimeter wave massive MIMO systems 2016 ,		6
452	Analysis of beam sweep channel estimation in MmWave massive MIMO networks 2016 ,		4
451	Adaptive Feedback Partitions in Dynamic Zero-Forcing Beamforming Based on Stochastic Geometry 2016 ,		1
450	Low Complexity Antenna Selection for Low Target Rate Users in Dense Cloud Radio Access Networks. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 6022-6032	9.6	8
449	Array thinning for antenna selection in millimeter wave MIMO systems 2016 ,		3
448	Performance Analysis of Outdoor mmWave Ad Hoc Networks. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 4065-4079	4.8	124
447	Device-to-Device Millimeter Wave Communications: Interference, Coverage, Rate, and Finite Topologies. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 6175-6188	9.6	112
446	Advanced interference management technique: potentials and limitations. <i>IEEE Wireless Communications</i> , 2016 , 23, 30-38	13.4	19
445	One-bit ADCs in wideband massive MIMO systems with OFDM transmission 2016 ,		25
444	Gram Schmidt based greedy hybrid precoding for frequency selective millimeter wave MIMO systems 2016 ,		9

443	Introduction to the Special Issue on Signal Processing for Millimeter Wave Wireless Communications. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2016 , 10, 433-435	7.5	3
442	Millimeter Wave Energy Harvesting. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 6048-6062	9.6	85
441	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 8992-9005	6.8	36
440	Cooperative Base Station Coloring for Pair-Wise Multi-Cell Coordination. <i>IEEE Transactions on Communications</i> , 2016 , 64, 402-415	6.9	19
439	Hybrid MIMO Architectures for Millimeter Wave Communications: Phase Shifters or Switches?. <i>IEEE Access</i> , 2016 , 4, 247-267	3.5	458
438	Compressed channel feedback for correlated massive MIMO systems. <i>Journal of Communications and Networks</i> , 2016 , 18, 95-104	4.1	44
437	. <i>IEEE Transactions on Information Theory</i> , 2016 , 62, 1344-1359	2.8	28
436	An Overview of Signal Processing Techniques for Millimeter Wave MIMO Systems. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2016 , 10, 436-453	7.5	1263
435	Massive MIMO Combining with Switches. <i>IEEE Wireless Communications Letters</i> , 2016 , 5, 232-235	5.9	54
434	Multiple-Antenna Transmission With Limited Feedback in Device-to-Device Networks. <i>IEEE Wireless Communications Letters</i> , 2016 , 5, 200-203	5.9	4
433	Analytical Characterization of ITLinQ: Channel Allocation for Device-to-Device Communication Networks. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 3603-3615	9.6	5
432	Millimeter Wave Vehicular Communications: A Survey 2016 ,		10
431	2016 , 54, 74-75		3
430	The use of unit norm tight measurement matrices for one-bit compressed sensing 2016 ,		2
429	Estimating millimeter wave channels using out-of-band measurements 2016 ,		24
428	Analysis of Urban Millimeter Wave Microcellular Networks 2016 ,		11
427	Can operators simply share millimeter wave spectrum licenses? 2016 ,		2
426	Capacity and Coverage in Clustered LOS mmWave Ad Hoc Networks 2016 ,		4

425	Beam tracking for mobile millimeter wave communication systems 2016,	97
424	Performance Analysis of Beam Sweeping in Millimeter Wave Assuming Noise and Imperfect Antenna Patterns 2016,	5
423	Limited feedback in MISO systems with finite-bit ADCs 2016,	1
422	Spatial channel covariance estimation for mmWave hybrid MIMO architecture 2016,	21
421	Compressive Sensing for Blockage Detection in Vehicular Millimeter Wave Antenna Arrays 2016,	5
420	Physical Layer Security in Large-Scale Millimeter Wave Ad Hoc Networks 2016,	9
419	Restricted Secondary Licensing for mmWave Cellular: How Much Gain Can Be Obtained? 2016,	2
418	On Wirelessly Powered Communications with Short Packets 2016,	6
417	Compressive Channel Estimation in FDD Multi-Cell Massive MIMO Systems with Arbitrary Arrays 2016,	1
416	Auxiliary Beam Pair Enabled AoD and AoA Estimation in mmWave FD-MIMO Systems 2016,	4
415	On the Security of Millimeter Wave Vehicular Communication Systems Using Random Antenna Subsets 2016,	8
414	Hybrid Precoders and Combiners for mmWave MIMO Systems with Per-Antenna Power Constraints 2016,	12
413	Radar aided beam alignment in MmWave V2I communications supporting antenna diversity 2016,	83
412	Frequency selective multiuser hybrid precoding for mmWave systems with imperfect channel knowledge 2016,	8
411	Capacity and scaling laws of dense mmWave and interference alignment ad hoc networks 2016,	5
410	Millimeter-Wave Vehicular Communication to Support Massive Automotive Sensing 2016, 54, 160-167	398
409	Optimal User Loading in Massive MIMO Systems With Regularized Zero Forcing Precoding. <i>IEEE Wireless Communications Letters</i> , 2016, 1-1	5.9 7
408	. <i>IEEE Journal on Selected Areas in Communications</i> , 2016, 34, 998-1009	14.2 563

407	Near Maximum-Likelihood Detector and Channel Estimator for Uplink Multiuser Massive MIMO Systems With One-Bit ADCs. <i>IEEE Transactions on Communications</i> , 2016 , 64, 2005-2018	6.9	252
406	On the Optimal Feedback Rate in Interference-Limited Multi-Antenna Cellular Systems. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 5748-5762	9.6	28
405	Millimeter Wave Networked Wearables in Dense Indoor Environments. <i>IEEE Access</i> , 2016 , 4, 1205-1221	3.5	59
404	Millimeter-wave gigabit broadband evolution toward 5G: fixed access and backhaul 2016 , 54, 138-144		88
403	Frequency Selective Hybrid Precoding for Limited Feedback Millimeter Wave Systems. <i>IEEE Transactions on Communications</i> , 2016 , 64, 1801-1818	6.9	294
402	Vehicular ad-hoc network simulations of overtaking maneuvers on two-lane rural highways. <i>Transportation Research Part C: Emerging Technologies</i> , 2016 , 72, 60-76	8.4	12
401	Fast Orthonormal Sparsifying Transforms Based on Householder Reflectors. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 6589-6599	4.8	8
400	Analysis of Urban Two-Tier Heterogeneous Mobile Networks With Small Cell Partitioning. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 7044-7057	9.6	8
399	Beam design for beam switching based millimeter wave vehicle-to-infrastructure communications 2016 ,		51
398	Low Complexity Hybrid Precoding Strategies for Millimeter Wave Communication Systems. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 8380-8393	9.6	107
397	Auxiliary beam pair design in mmWave cellular systems with hybrid precoding and limited feedback 2016 ,		8
396	Index Coding With Coded Side-Information. <i>IEEE Communications Letters</i> , 2015 , 19, 319-322	3.8	15
395	Space-time Physical-Layer Network Coding. <i>IEEE Journal on Selected Areas in Communications</i> , 2015 , 33, 323-336	14.2	8
394	Coverage and Rate Analysis for Millimeter-Wave Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 1100-1114	9.6	793
393	Distributed Space-time Interference Alignment With Moderately Delayed CSIT. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 1048-1059	9.6	16
392	. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 3337-3351	9.6	69
391	Achievable rates of multi-user millimeter wave systems with hybrid precoding 2015 ,		35
390	Spectral efficiency of massive MIMO systems with D2D underlay 2015 ,		7

389	Asymptotic SINR for millimeter wave massive MIMO cellular networks 2015 ,		17
388	. <i>IEEE Transactions on Multimedia</i> , 2015 , 17, 1802-1817	6.6	5
387	Augmented covariance estimation with a cyclic approach in DOA 2015 ,		3
386	Delay-Constrained Video Transmission: Quality-Driven Resource Allocation and Scheduling. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2015 , 9, 60-75	7.5	52
385	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2015 , 9, 22-36	7.5	33
384	Metrocell Antennas: The Positive Impact of a Narrow Vertical Beamwidth and Electrical Downtilt. <i>IEEE Vehicular Technology Magazine</i> , 2015 , 10, 51-59	9.9	23
383	Performance Analysis of Cooperative Wireless Networks With Unreliable Backhaul Links. <i>IEEE Communications Letters</i> , 2015 , 19, 1386-1389	3.8	28
382	An attack on antenna subset modulation for millimeter wave communication 2015 ,		10
381	MmWave ad hoc network coverage and capacity 2015 ,		14
380	Capacity Analysis of One-Bit Quantized MIMO Systems With Transmitter Channel State Information. <i>IEEE Transactions on Signal Processing</i> , 2015 , 63, 5498-5512	4.8	241
379	. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 6481-6494	9.6	663
378	Spectral Efficiency of Dynamic Coordinated Beamforming: A Stochastic Geometry Approach. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 230-241	9.6	82
377	. <i>IEEE Journal on Selected Areas in Communications</i> , 2015 , 33, 1-13	14.2	265
376	Distributed Real-Time Implementation of Interference Alignment with Analog Feedback. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 3513-3525	6.8	6
375	Adaptive One-Bit Compressive Sensing with Application to Low-Precision Receivers at mmWave 2015 ,		18
374	Millimeter Wave Power Transfer and Information Transmission 2015 ,		20
373	A Stochastic Geometry Approach to Analyzing Cellular Networks with Semi-Static Clustering 2015 ,		2
372	Analysis of millimeter wave networked wearables in crowded environments 2015 ,		16

371	Advanced Limited Feedback Designs for FD-MIMO Using Uniform Planar Arrays 2015,	12
370	Uplink Massive MIMO SIR Analysis: How Do Antennas Scale with Users? 2015,	3
369	An Indoor Correlated Shadowing Model 2015,	5
368	Frequency Selective Hybrid Precoding in Millimeter Wave OFDMA Systems 2015,	8
367	Optimizing the Target Error Rate for Link Adaptation 2015,	8
366	Retrospective interference alignment for two-cell uplink MIMO cellular networks with delayed CSIT 2015,	1
365	Interference statistics in a random mmWave ad hoc network 2015,	16
364	Low resolution adaptive compressed sensing for mmWave MIMO receivers 2015,	9
363	Base station cluster patterns for semi-static multi-cell cooperation in irregular network topologies 2015,	2
362	Performance evaluation of ITLinQ and FlashLinQ for overlaid device-to-device communication 2015	3
361	Interference in finite-sized highly dense millimeter wave networks 2015,	56
360	Channel estimation and hybrid combining for mmWave: Phase shifters or switches? 2015,	122
359	Energy Coverage in Millimeter Wave Energy Harvesting Networks 2015,	7
358	Basic Relationship between Channel Coherence Time and Beamwidth in Vehicular Channels 2015,	45
357	Investigating the IEEE 802.11ad Standard for Millimeter Wave Automotive Radar 2015,	56
356	Opportunistic beam training with hybrid analog/digital codebooks for mmWave systems 2015,	20
355	Beam Switching for Millimeter Wave Communication to Support High Speed Trains 2015,	41
354	FDD massive MIMO with analog csi feedback 2015,	2

353	Limited feedback in multiple-antenna systems with one-bit quantization 2015 ,		10
352	Performance analysis of pair-wise dynamic multi-user joint transmission 2015 ,		2
351	Dictionary-free hybrid precoders and combiners for mmWave MIMO systems 2015 ,		44
350	Near maximum-likelihood detector with one-bit ADCs for multiuser massive MIMO systems 2015 ,		4
349	Adaptive hybrid precoding and combining in MmWave multiuser MIMO systems based on compressed covariance estimation 2015 ,		21
348	Ergodic capacity in mmWave ad hoc network with imperfect beam alignment 2015 ,		29
347	Low complexity hybrid sparse precoding and combining in millimeter wave MIMO systems 2015 ,		56
346	Compressed sensing based multi-user millimeter wave systems: How many measurements are needed? 2015 ,		141
345	Artificial-Noise-Aided Secure Multi-Antenna Transmission With Limited Feedback. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 2742-2754	9.6	65
344	Spatially Sparse Precoding in Millimeter Wave MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 1499-1513	9.6	1746
343	. <i>IEEE Transactions on Information Theory</i> , 2014 , 60, 515-528	2.8	26
342	A Phase-Reconstruction Technique for Low-Power Centimeter-Accurate Mobile Positioning. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 2595-2610	4.8	4
341	Millimeter wave cellular channel models for system evaluation 2014 ,		33
340	Modeling the time-varying subjective quality of HTTP video streams with rate adaptations. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 2206-21	8.7	59
339	Signal Processing for the 5G Revolution [From the Guest Editors]. <i>IEEE Signal Processing Magazine</i> , 2014 , 31, 12-13	9.4	3
338	Joint transmission mode and tilt adaptation in coordinated small-cell networks 2014 ,		4
337	Cross-polarization RF precoding to mitigate mobile misorientation and polarization leakage 2014 ,		2
336	Channel Estimation and Hybrid Precoding for Millimeter Wave Cellular Systems. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2014 , 8, 831-846	7.5	1335

335	Coordinated 3D Beamforming for Interference Management in Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 5396-5410	9.6	42
334	Learning-Based Adaptive Transmission for Limited Feedback Multiuser MIMO-OFDM. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 3806-3820	9.6	22
333	Coverage and capacity of millimeter-wave cellular networks 2014 , 52, 70-77		213
332	. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 5070-5083	9.6	407
331	Analysis of small cell partitioning in urban two-tier heterogeneous cellular networks 2014 ,		10
330	Impact of 3D base station antenna in random heterogeneous cellular networks 2014 ,		6
329	Secure communication in cellular networks: The benefits of millimeter wave mobile broadband 2014 ,		31
328	Analysis of self-body blocking effects in millimeter wave cellular networks 2014 ,		41
327	On the spatial spectral efficiency of ITLinQ 2014 ,		9
326	Channel estimation in millimeter wave MIMO systems with one-bit quantization 2014 ,		150
325	Adaptive video transmission with subjective quality constraints 2014 ,		1
324	Mimo for millimeter-wave wireless communications: beamforming, spatial multiplexing, or both? 2014 , 52, 110-121		379
323	MIMO Precoding and Combining Solutions for Millimeter-Wave Systems. <i>IEEE Communications Magazine</i> , 2014 , 52, 122-131	9.1	1490
322	Single-sided adaptive estimation of multi-path millimeter wave channels 2014 ,		28
321	Artificial-noise-aided secure multi-antenna transmission in slow fading channels with limited feedback 2014 ,		6
320	FER prediction with variable codeword length 2014 ,		1
319	High SNR capacity of millimeter wave MIMO systems with one-bit quantization 2014 ,		70
318	Multi-layer precoding for full-dimensional massive MIMO systems 2014 ,		10

317	Asymptotic coverage and rate in massive MIMO networks 2014 ,		10
316	Five disruptive technology directions for 5G. <i>IEEE Communications Magazine</i> , 2014 , 52, 74-80	9.1	2754
315	Single-user MIMO versus multi-user MIMO in distributed antenna systems with limited feedback. <i>Eurasip Journal on Advances in Signal Processing</i> , 2013 , 2013,	1.9	17
314	Interference alignment [Recent results and future directions 2013 ,		3
313	. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 5213-5226	2.8	200
312	A distributed algorithm using interference pricing for relay interference channels. <i>Eurasip Journal on Advances in Signal Processing</i> , 2013 , 2013,	1.9	3
311	. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 2882-2896	2.8	22
310	A New MIMO HF Data Link: Designing for High Data Rates and Backwards Compatibility 2013 ,		7
309	The viability of distributed antennas for massive MIMO systems 2013 ,		65
308	Antenna Subset Modulation for Secure Millimeter-Wave Wireless Communication. <i>IEEE Transactions on Communications</i> , 2013 , 61, 3231-3245	6.9	171
307	Coverage analysis for millimeter wave cellular networks with blockage effects 2013 ,		50
306	Cascaded orthogonal space-time block codes for wireless multi-hop relay networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2013 , 2013,	3.2	6
305	Multicell cooperative systems with multiple receive antennas. <i>IEEE Wireless Communications</i> , 2013 , 20, 50-58	13.4	16
304	Effects of channel aging in massive MIMO systems. <i>Journal of Communications and Networks</i> , 2013 , 15, 338-351	4.1	189
303	Base station cooperation with dynamic clustering in super-dense cloud-RAN 2013 ,		1
302	Predictive Vector Quantization for Multicell Cooperation with Delayed Limited Feedback. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 2588-2597	9.6	8
301	Antenna Subset Modulation for secure millimeter-wave wireless communication 2013 ,		4
300	Location-Specific Coverage in Heterogeneous Networks. <i>IEEE Signal Processing Letters</i> , 2013 , 20, 873-876.	2	11

299	MIMO Interference Alignment in Random Access Networks. <i>IEEE Transactions on Communications</i> , 2013 , 61, 5042-5055	6.9	8
298	A Markov Decision Model for Adaptive Scheduling of Stored Scalable Videos. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2013 , 23, 1081-1095	6.4	23
297	A current perspective on distributed antenna systems for the downlink of cellular systems 2013 , 51, 161-167		127
296	The practical challenges of interference alignment. <i>IEEE Wireless Communications</i> , 2013 , 20, 35-42	13.4	116
295	. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 1201-1215	6.8	11
294	Cooperative Algorithms for MIMO Amplify-and-Forward Relay Networks. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 1272-1287	4.8	55
293	Interference Coordination: Random Clustering and Adaptive Limited Feedback. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 1822-1834	4.8	73
292	HF MIMO NVIS Measurements with Co-located Dipoles for Future Tactical Communications 2013 ,		4
291	Video quality-maximizing resource allocation and scheduling with statistical delay guarantees 2013 ,		3
290	Multimode precoding in millimeter wave MIMO transmitters with multiple antenna sub-arrays 2013 ,		49
289	Adaptive Quantization on a Grassmann-Manifold for Limited Feedback Beamforming Systems. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 4450-4462	4.8	28
288	Coverage and area spectral efficiency in downlink random cellular networks with channel estimation error 2013 ,		2
287	Modeling Heterogeneous Network Interference Using Poisson Point Processes. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 4114-4126	4.8	326
286	Adaptive quantization on the Grassmann-manifold for limited feedback multi-user MIMO systems 2013 ,		18
285	Degrees of freedom of completely-connected multi-way interference networks 2013 ,		2
284	Hybrid precoding for millimeter wave cellular systems with partial channel knowledge 2013 ,		195
283	Coverage in dense millimeter wave cellular networks 2013 ,		21
282	Link adaptation in MIMO-OFDM with practical impairments 2013 ,		1

281	A dynamic system model of time-varying subjective quality of video streams over HTTP 2013,		10
280	Topological algebraic structure on Souslin and Aronszajn lines. <i>Topology and Its Applications</i> , 2012, 159, 818-822	0.4	
279	Introduction to the Issue on Signal Processing in Heterogeneous Networks for Future Broadband Wireless Systems. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2012, 6, 213-215	7.5	1
278	Transmission Capacity of Ad-hoc Networks With Multiple Antennas Using Transmit Stream Adaptation and Interference Cancellation. <i>IEEE Transactions on Information Theory</i> , 2012, 58, 780-792	2.8	68
277	Spatial Interference Cancellation for Multiantenna Mobile Ad Hoc Networks. <i>IEEE Transactions on Information Theory</i> , 2012, 58, 1660-1676	2.8	92
276	On the Overhead of Interference Alignment: Training, Feedback, and Cooperation. <i>IEEE Transactions on Wireless Communications</i> , 2012, 11, 4192-4203	9.6	80
275	Interference Aware-Coordinated Beamforming in a Multi-Cell System. <i>IEEE Transactions on Wireless Communications</i> , 2012, 11, 3692-3703	9.6	44
274	Link Adaptation with Position/Motion Information in Vehicle-to-Vehicle Networks. <i>IEEE Transactions on Wireless Communications</i> , 2012, 11, 505-509	9.6	17
273	User Arrival in MIMO Interference Alignment Networks. <i>IEEE Transactions on Wireless Communications</i> , 2012, 11, 842-851	9.6	15
272	User Partitioning for Less Overhead in MIMO Interference Channels. <i>IEEE Transactions on Wireless Communications</i> , 2012, 11, 592-603	9.6	34
271	Prioritized multimode precoding for joint minimization of source-channel video distortions 2012,		2
270	Not too delayed CSIT achieves the optimal degrees of freedom 2012,		32
269	Multi-cell coordination: A stochastic geometry approach 2012,		8
268	Modeling heterogeneous network interference 2012,		31
267	2012,		27
266	Multuser MIMO in distributed antenna systems with limited feedback 2012,		10
265	Using random shape theory to model blockage in random cellular networks 2012,		51
264	Interference alignment with limited feedback for two-cell interfering MIMO-MAC 2012,		15

263	Pre- and post-FFT interference leakage minimization for MIMO OFDM networks 2012,		2
262	A Cross-Layer Design for Perceptual Optimization Of H.264/SVC with Unequal Error Protection. <i>IEEE Journal on Selected Areas in Communications</i> , 2012 , 30, 1157-1171	14.2	44
261	Grassmannian Differential Limited Feedback for Interference Alignment. <i>IEEE Transactions on Signal Processing</i> , 2012 , 60, 6481-6494	4.8	61
260	Interference Alignment with Analog Channel State Feedback. <i>IEEE Transactions on Wireless Communications</i> , 2012 , 11, 626-636	9.6	120
259	Spectral efficiency limits in pilot-assisted cooperative communications 2012,		22
258	2012,		79
257	Low complexity precoding for large millimeter wave MIMO systems 2012,		131
256	Coverage and capacity in mmWave cellular systems 2012,		84
255	Data sharing coordination and blind interference alignment for cellular networks 2012,		14
254	Implementation of a real-time wireless interference alignment network 2012,		7
253	CSI feedback delay and degrees of freedom gain trade-off for the MISO interference channel 2012,		9
252	Interference leakage minimization for convolutive MIMO interference channels 2012,		3
251	Multicell Handoff in MIMO Cellular Systems. <i>Advances in Intelligent and Soft Computing</i> , 2012 , 893-898		
250	MIMO Transceiver Designs for Spatial Sensing in Cognitive Radio Networks. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 3570-3576	9.6	18
249	MIMO Interference Alignment Over Correlated Channels With Imperfect CSI. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 2783-2794	4.8	125
248	Adaptive Limited Feedback for Sum-Rate Maximizing Beamforming in Cooperative Multicell Systems. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 800-811	4.8	125
247	Two-Way Transmission Capacity of Wireless Ad-hoc Networks. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 1966-1975	9.6	20
246	Interference alignment for the multiple-antenna amplify-and-forward relay interference channel 2011,		3

245	Interference Management Schemes for the Shared Relay Concept. <i>Eurasip Journal on Advances in Signal Processing</i> , 2011 , 2011,	1.9	13
244	Extending the reach of GPS-assisted femtocell synchronization and localization through Tightly-Coupled Opportunistic Navigation 2011 ,		8
243	Digital Communication Basics 2011 , 627-641		
242	Cognitive Cooperation for the Downlink of Frequency Reuse Small Cells. <i>Eurasip Journal on Advances in Signal Processing</i> , 2011 , 2011,	1.9	4
241	Multimode Transmission in Network MIMO Downlink with Incomplete CSI. <i>Eurasip Journal on Advances in Signal Processing</i> , 2011 , 2011,	1.9	2
240	Modeling ordered subcarrier SNR in MIMO-OFDM wireless links. <i>Physical Communication</i> , 2011 , 4, 275-285		22
239	Distributed link adaptation for multicast traffic in MIMO-OFDM systems. <i>Physical Communication</i> , 2011 , 4, 286-295	2.2	3
238	Is the PHY layer dead? 2011 , 49, 159-165		134
237	Cooperative Algorithms for MIMO Interference Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 206-218	6.8	190
236	Multi-Mode Transmission for the MIMO Broadcast Channel with Imperfect Channel State Information. <i>IEEE Transactions on Communications</i> , 2011 , 59, 803-814	6.9	83
235	. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 4219-4234	2.8	104
234	Noniterative Coordinated Beamforming for Multiuser MIMO Systems With Limited Feedforward. <i>IEEE Signal Processing Letters</i> , 2011 , 18, 701-704	3.2	6
233	MIMO interference alignment in random access networks 2011 ,		7
232	On imperfect CSI for the downlink of a two-tier network 2011 ,		11
231	A Machine Learning Approach to Link Adaptation for SC-FDE System 2011 ,		5
230	Multiuser MIMO in Distributed Antenna Systems With Out-of-Cell Interference. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 4885-4899	4.8	196
229	Spatial interference mitigation for multiple input multiple output ad hoc networks: MISO gains 2011 ,		11
228	Adaptive policies for real-time video transmission: A Markov decision process framework 2011 ,		11

227	User admission in MIMO interference alignment networks 2011 ,		9
226	. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 1798-1809	9.6	45
225	Grassmannian predictive coding for limited feedback multiuser MIMO systems 2011 ,		19
224	Jointly optimized two-cell MIMO systems 2011 ,		6
223	Robust Beamforming and Power Control for Two-Tier Femtocell Networks 2011 ,		3
222	Interference alignment with per-antenna power constraints 2011 ,		2
221	Relay Beamforming Using Interference Pricing for the Two-Hop Interference Channel 2011 ,		1
220	Adaptive Bit Partitioning for Multicell Intercell Interference Nulling With Delayed Limited Feedback. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 3824-3836	4.8	74
219	Joint Source-Channel Adaptation for Perceptually Optimized Scalable Video Transmission 2011 ,		4
218	Signal Processing for Networking and Communications [In the Spotlight]. <i>IEEE Signal Processing Magazine</i> , 2011 , 28, 151-152	9.4	
217	Impact of Delayed Limited Feedback on the Sum-Rate of Intercell Interference Nulling 2011 ,		3
216	Optimizing training and feedback for MIMO interference alignment 2011 ,		5
215	Overhead Reduction in Coordinated Beamforming for Multiuser MIMO-OFDM Systems with Limited Feedforward. <i>IEICE Transactions on Communications</i> , 2011 , E94-B, 3168-3171	0.5	
214	Online adaptive modulation and coding with support vector machines 2010 ,		27
213	Limited feedback with joint CSI quantization for multicell cooperative generalized eigenvector beamforming 2010 ,		22
212	Sum-rate of MIMO two-way relaying with imperfect CSI 2010 ,		5
211	Predictive limited feedback for cooperative transmission 2010 ,		2
210	Cognitive cooperation for the downlink of frequency reuse small cells 2010 ,		5

209	Multiuser MIMO in distributed antenna systems 2010 ,		7
208	Adaptive transmit antenna selection in MIMO amplify-and-forward relay channels 2010 ,		1
207	Limited feedback beamforming for temporally correlated MIMO channels with other cell interference 2010 ,		1
206	A simple SINR characterization for linear interference alignment over uncertain MIMO channels 2010 ,		14
205	Unequal power allocation for JPEG transmission over MIMO systems. <i>IEEE Transactions on Image Processing</i> , 2010 , 19, 410-21	8.7	21
204	Two-way transmission capacity of wireless ad-hoc networks 2010 ,		4
203	Multimode Antenna Selection for MIMO Amplify-and-Forward Relay Systems. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 5845-5859	4.8	13
202	Limited Feedback for Temporally Correlated MIMO Channels With Other Cell Interference. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 5219-5232	4.8	15
201	Link adaptation in MIMO-OFDM with non-uniform constellation selection over spatial streams through supervised learning 2010 ,		3
200	Interference alignment with analog CSI feedback 2010 ,		4
199	60 GHz Wireless: Up Close and Personal. <i>IEEE Microwave Magazine</i> , 2010 , 11, 44-50	1.2	145
198	Maximum Sum-Rate Interference Alignment Algorithms for MIMO Channels 2010 ,		88
197	Grassmannian predictive frequency domain compression for limited feedback beamforming 2010 ,		1
196	Coordinated single-cell vs multi-cell transmission with limited-capacity backhaul 2010 ,		10
195	Adaptive MIMO transmission techniques for broadband wireless communication systems [Topics in Wireless Communications]. <i>IEEE Communications Magazine</i> , 2010 , 48, 112-118	9.1	78
194	Opportunistic Scheduling in Multiuser OFDM Systems with Clustered Feedback. <i>Wireless Personal Communications</i> , 2010 , 52, 209	1.9	4
193	Impact of Mutual Coupling on Adaptive Switching Between MIMO Transmission Strategies and Antenna Configurations. <i>Wireless Personal Communications</i> , 2010 , 52, 69	1.9	3
192	Adaptation in Convolutionally Coded MIMO-OFDM Wireless Systems Through Supervised Learning and SNR Ordering. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 114-126	6.8	79

191	An Energy-Based Comparison of Long-Hop and Short-Hop Routing in MIMO Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 394-405	6.8	12
190	. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 2219-2231	6.8	23
189	. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 4377-4387	6.8	37
188	. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 4309-4321	6.8	71
187	Transmission Capacity of Two-Way Communication in Wireless Ad Hoc Networks 2009 ,		4
186	Transmission capacity of ad-hoc networks with multiple antennas using transmit stream adaptation and interference cancelation 2009 ,		20
185	Grassmannian predictive coding for delayed limited feedback MIMO systems 2009 ,		8
184	On the Optimality of Linear Multiuser MIMO Beamforming for a Two-User Two-Input Multiple-Output Broadcast System. <i>IEEE Signal Processing Letters</i> , 2009 , 16, 117-120	3.2	18
183	Achievable throughput of multi-mode multiuser MIMO with imperfect CSI constraints 2009 ,		9
182	Relay Architectures for 3GPP LTE-Advanced. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2009 , 2009,	3.2	159
181	MIMO Spatial Mode Adaptation at the Cell Edge Using Interferer Spatial Correlation 2009 ,		1
180	Sum-rate maximizing beamforming in multicell systems with limited feedback 2009 ,		1
179	The performance of space-time block codes from coordinate interleaved orthogonal designs over nakagami-m fading channels. <i>IEEE Transactions on Communications</i> , 2009 , 57, 653-664	6.9	23
178	. <i>IEEE Transactions on Communications</i> , 2009 , 57, 2633-2644	6.9	55
177	Network Coordinated Beamforming for Cell-Boundary Users: Linear and Nonlinear Approaches. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2009 , 3, 1094-1105	7.5	43
176	. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 2803-2814	6.8	16
175	. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 152-164	6.8	140
174	The Impact of Channel Feedback on Opportunistic Relay Selection for Hybrid-ARQ in Wireless Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 1255-1268	6.8	26

173	Relay Subset Selection in Wireless Networks Using Partial Decode-and-Forward Transmission. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 692-704	6.8	30
172	Frequency-Domain Channel Estimation and Equalization for Continuous-Phase Modulations With Superimposed Pilot Sequences. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 4903-4908	6.8	7
171	Single-User and Multicast OFDM Power Loading With Nonregenerative Relaying. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 4890-4902	6.8	6
170	Relay-Assisted User Scheduling in Wireless Networks With Hybrid ARQ. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 5284-5288	6.8	3
169	Interference alignment via alternating minimization 2009 ,		251
168	. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 4264-4275	9.6	102
167	2009 ,		4
166	Kerdock Codes for Limited Feedback Precoded MIMO Systems. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 3711-3716	4.8	43
165	Performance analysis of maximum ratio combining with imperfect channel estimation in the presence of cochannel interferences. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 1080-1085	9.6	80
164	2009 ,		41
163	An online learning framework for link adaptation in wireless networks 2009 ,		18
162	Joint source-channel distortion modeling for MPEG-4 video. <i>IEEE Transactions on Image Processing</i> , 2009 , 18, 90-105	8.7	19
161	An Experimental Evaluation of Rate Adaptation for Multi-Antenna Systems 2009 ,		16
160	Networked MIMO with clustered linear precoding. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 1910-1921	9.6	320
159	Geodesic prediction for limited feedback multiuser MIMO systems in temporally correlated channels 2009 ,		14
158	Quantized Antenna Combining for Multiuser MIMO-OFDM With Limited Feedback. <i>IEEE Signal Processing Letters</i> , 2009 , 16, 1027-1030	3.2	7
157	Linear network coordinated beamforming for cell-boundary users 2009 ,		3
156	Block Diagonalization in the MIMO Broadcast Channel with Delayed CSIT 2009 ,		17

155	Transmission capacity of wireless ad-hoc networks with multiple antennas using multi-mode precoding and interference cancelation 2009 ,		4
154	To Code in Space and Time or Not in Multihop Relay Channels. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 2736-2747	4.8	13
153	The future of WiMAX: Multihop relaying with IEEE 802.16j 2009 , 47, 104-111		177
152	Limited Feedback Beamforming Over Temporally-Correlated Channels. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 1959-1975	4.8	72
151	Adaptive mode switching in correlated multiple antenna cellular networks. <i>Journal of Communications and Networks</i> , 2009 , 11, 279-286	4.1	1
150	End-to-End Joint Antenna Selection Strategy and Distributed Compress and Forward Strategy for Relay Channels. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2009 , 2009,	3.2	3
149	Progressive Refinement of Beamforming Vectors for High-Resolution Limited Feedback. <i>Eurasip Journal on Advances in Signal Processing</i> , 2009 , 2009,	1.9	30
148	Mode Switching for the Multi-Antenna Broadcast Channel Based on Delay and Channel Quantization. <i>Eurasip Journal on Advances in Signal Processing</i> , 2009 , 2009,	1.9	50
147	Optimization methodology for designing 2-CPAs exploiting pattern diversity in clustered MIMO channels. <i>IEEE Transactions on Communications</i> , 2008 , 56, 1748-1759	6.9	4
146	A Space-Time Receiver With Joint Synchronization and Interference Cancellation in Asynchronous MIMO-OFDM Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2008 , 57, 2991-3005	6.8	13
145	Sizing up MIMO arrays. <i>IEEE Vehicular Technology Magazine</i> , 2008 , 3, 31-38	9.9	1
144	Nonregenerative MIMO Relaying With Optimal Transmit Antenna Selection. <i>IEEE Signal Processing Letters</i> , 2008 , 15, 421-424	3.2	111
143	Design and Evaluation of a Reconfigurable Antenna Array for MIMO Systems. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 869-881	4.9	162
142	Non-Redundant Precoding-Based Blind and Semi-Blind Channel Estimation for MIMO Block Transmission With a Cyclic Prefix. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 2509-2523	4.8	18
141	Coordinated Beamforming for the Multiuser MIMO Broadcast Channel With Limited Feedforward. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 6044-6056	4.8	56
140	Exploiting limited feedback in tomorrow's wireless communication networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2008 , 26, 1337-1340	14.2	13
139	An overview of limited feedback in wireless communication systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2008 , 26, 1341-1365	14.2	824
138	Coordinated beamforming with limited feedback in the MIMO broadcast channel. <i>IEEE Journal on Selected Areas in Communications</i> , 2008 , 26, 1505-1515	14.2	117

137	Shannon Capacity and Symbol Error Rate of Space-Time Block Codes in MIMO Rayleigh Channels With Channel estimation Error. <i>IEEE Transactions on Wireless Communications</i> , 2008 , 7, 324-333	9.6	31
136	Block diagonalization for multi-user MIMO with other-cell interference. <i>IEEE Transactions on Wireless Communications</i> , 2008 , 7, 2671-2681	9.6	131
135	MIMO Relaying With Linear Processing for Multiuser Transmission in Fixed Relay Networks. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 727-738	4.8	217
134	Rethinking information theory for mobile ad hoc networks 2008 , 46, 94-101		127
133	Computing the Receive Spatial Correlation for a Multi-Cluster MIMO Channel Using Different Array Configurations 2008 ,		2
132	Rate Bounds on SSIM Index of Quantized Image DCT Coefficients 2008 ,		5
131	Spatial interference cancelation for mobile ad hoc networks: Imperfect CSI 2008 ,		3
130	SSIM-optimal linear image restoration. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	13
129	Perceptual soft thresholding using the structural similarity index 2008 ,		4
128	Rate bounds for MIMO relay channels. <i>Journal of Communications and Networks</i> , 2008 , 10, 194-203	4.1	12
127	Progressive refinement for high resolution limited feedback multiuser MIMO beamforming 2008 ,		3
126	Spatial Interference Cancellation for Mobile Ad Hoc Networks: Perfect CSI 2008 ,		7
125	Rate bounds on SSIM index of quantized images. <i>IEEE Transactions on Image Processing</i> , 2008 , 17, 1624-39.7		83
124	Non-iterative multiuser MIMO coordinated beamforming with limited feedforward. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	6
123	Single-user MIMO vs. Multiuser MIMO in the broadcast channel with CSIT constraints 2008 ,		10
122	Multiuser MIMO Downlink with Limited Feedback Using Transmit-Beam Matching 2008 ,		4
121	Throughput/Delay Measurements of Limited Feedback Beamforming in Indoor Wireless Networks 2008 ,		7
120	Constructing Packings in Grassmannian Manifolds via Alternating Projection. <i>Experimental Mathematics</i> , 2008 , 17, 9-35	0.5	96

119	Block Diagonalized Vector Perturbation for Multiuser MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2008 , 7, 4051-4057	9.6	57
118	MIMO Receiver Design in the Presence of Radio Frequency Interference 2008 ,		11
117	Maximizing reliability in multi-hop wireless networks 2008 ,		8
116	Design of linear equalizers optimized for the structural similarity index. <i>IEEE Transactions on Image Processing</i> , 2008 , 17, 857-72	8.7	66
115	Switching between antenna selection and spatial multiplexing in the nonregenerative MIMO relay channel 2008 ,		3
114	Correction to BDMA With a Sum Feedback Rate Constraint <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 3800-3801	4.8	
113	Relay Subset Selection in Wireless Networks Using Partial Decode-and-Forward Transmission. <i>IEEE Vehicular Technology Conference</i> , 2008 ,	0.1	4
112	A Supervised Learning Approach to Adaptation in Practical MIMO-OFDM Wireless Systems 2008 ,		15
111	Using Higher Order Cyclostationarity to Identify Space-Time Block Codes 2008 ,		22
110	A Lattice-Theoretic Analysis of Vector Perturbation for Multi-User MIMO Systems 2008 ,		7
109	A low complexity linear multiuser MIMO beamforming system with limited feedback 2008 ,		1
108	Multimode Transmission for Multiuser MIMO Systems With Block Diagonalization. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 3294-3302	4.8	53
107	Information Outage Probability and Diversity Order of Alamouti Transmit Diversity in Time-Selective Fading Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2008 , 57, 3890-3895	6.8	0
106	Quantization on the Grassmann Manifold. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 4208-4216	4.8	41
105	Systematic Codebook Designs for Quantized Beamforming in Correlated MIMO Channels. <i>IEEE Journal on Selected Areas in Communications</i> , 2007 , 25, 1091-1100	14.2	162
104	Low-Complexity User and Antenna Selection for Multiuser MIMO Systems with Block Diagonalization 2007 ,		2
103	Congruent Voronoi tessellations from equiangular lines. <i>Applied and Computational Harmonic Analysis</i> , 2007 , 23, 254-258	3.1	1
102	On the existence of equiangular tight frames. <i>Linear Algebra and Its Applications</i> , 2007 , 426, 619-635	0.9	152

101	60 GHz wireless communications: Emerging requirements and design recommendations. <i>IEEE Vehicular Technology Magazine</i> , 2007 , 2, 41-50	9.9	337
100	Joint Interference Cancellation and Channel Shortening in Multiuser-MIMO Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2007 , 56, 652-660	6.8	4
99	Blind Channel Estimation for MIMO-OFDM Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2007 , 56, 670-685	6.8	143
98	Opportunistic Feedback for Multiuser MIMO Systems With Linear Receivers. <i>IEEE Transactions on Communications</i> , 2007 , 55, 1020-1032	6.9	60
97	Opportunistic Space-Division Multiple Access With Beam Selection. <i>IEEE Transactions on Communications</i> , 2007 , 55, 2371-2380	6.9	73
96	. <i>IEEE Transactions on Vehicular Technology</i> , 2007 , 56, 619-630	6.8	61
95	Shifting the MIMO Paradigm. <i>IEEE Signal Processing Magazine</i> , 2007 , 24, 36-46	9.4	656
94	Impact of Mutual Coupling and Antenna Efficiencies on Adaptive Switching Between MIMO Transmission Strategies. <i>Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE</i> , 2007 ,		1
93	Efficient Transmit Antenna Selection for Multiuser MIMO Systems with Block Diagonalization 2007 ,		19
92	Early Results on Hydra: A Flexible MAC/PHY Multihop Testbed. <i>IEEE Vehicular Technology Conference</i> , 2007 ,	0.1	26
91	Hybrid-Arq in Multihop Networks with Opportunistic Relay Selection 2007 ,		14
90	Physical concerns for cross-layer prototyping and wireless network experimentation 2007 ,		6
89	A MIMO demonstration of Hydra 2007 ,		1
88	Coordinated Multi-cell MIMO Systems with Cellular Block Diagonalization. <i>Conference Record of the Asilomar Conference on Signals, Systems and Computers</i> , 2007 ,	0.3	9
87	Ergodic Capacity of Spatial Multiplexing MIMO Systems with ZF Receivers for Log-Normal Shadowing and Rayleigh Fading Channels 2007 ,		28
86	Downlink MIMO Block Diagonalization in the Presence of Other-Cell Interference 2007 ,		2
85	Multiuser Limited Feedback for Wireless Multi-Antenna Communication 2007 ,		5
84	Uplink Power Control in Multi-Cell Spatial Multiplexing Wireless Systems. <i>IEEE Transactions on Wireless Communications</i> , 2007 , 6, 2700-2711	9.6	40

83	Orthogonal Beamforming for SDMA Downlink with Limited Feedback 2007 ,		8
82	Uplink SDMA with Limited Feedback: Throughput Scaling. <i>Eurasip Journal on Advances in Signal Processing</i> , 2007 , 2008,	1.9	3
81	A Diversity Guarantee and SNR Performance for Unitary Limited Feedback MIMO Systems. <i>Eurasip Journal on Advances in Signal Processing</i> , 2007 , 2008,	1.9	5
80	SDMA with a Sum Feedback Rate Constraint 2007 ,		1
79	Transmit Selection Diversity for Unitary Precoded Multiuser Spatial Multiplexing Systems With Linear Receivers. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 1159-1171	4.8	75
78	Multiuser Antenna Partitioning for Cellular MIMO-OFDMA Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2007 , 56, 2448-2456	6.8	11
77	Overcoming interference in spatial multiplexing MIMO cellular networks. <i>IEEE Wireless Communications</i> , 2007 , 14, 95-104	13.4	221
76	Reduced Rank Signaling in Spatially Correlated MIMO Channels 2007 ,		13
75	Opportunistic Relay Selection with Limited Feedback. <i>IEEE Vehicular Technology Conference</i> , 2007 ,	0.1	18
74	Simplified Spatial Correlation Models for Clustered MIMO Channels With Different Array Configurations. <i>IEEE Transactions on Vehicular Technology</i> , 2007 , 56, 1924-1934	6.8	143
73	Interpolation-Based Multi-Mode Precoding for MIMO-OFDM Systems with Limited Feedback. <i>IEEE Transactions on Wireless Communications</i> , 2007 , 6, 1003-1013	9.6	23
72	. <i>IEEE Transactions on Wireless Communications</i> , 2007 , 6, 2040-2045	9.6	59
71	Capacity Scaling for MIMO Two-Way Relaying 2007 ,		32
70	Space Division Multiple Access With a Sum Feedback Rate Constraint. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 3879-3891	4.8	96
69	Optimizing MIMO Antenna Placement and Array Configurations for Multimedia Delivery in Aircraft. <i>IEEE Vehicular Technology Conference</i> , 2007 ,	0.1	8
68	Jointly Optimized Multiuser Beamforming for the MIMO Broadcast Channel with Limited Feedback 2007 ,		4
67	Multiplexing/Beamforming Switching for Coded MIMO in Spatially Correlated Channels Based on Closed-Form BER Approximations. <i>IEEE Transactions on Vehicular Technology</i> , 2007 , 56, 2555-2567	6.8	14
66	Reduced complexity signal detection for OFDM systems with transmit diversity. <i>Journal of Communications and Networks</i> , 2007 , 9, 75-83	4.1	1

65	Limited feedback diversity techniques for correlated channels. <i>IEEE Transactions on Vehicular Technology</i> , 2006 , 55, 718-722	6.8	104
64	On quasi-orthogonal signatures for CDMA systems. <i>IEEE Transactions on Information Theory</i> , 2006 , 52, 1217-1226	2.8	48
63	A Throughput-Based Adaptive MIMO-BICM Approach for Spatially-Correlated Channels 2006 ,		6
62	On Achievable Sum Rates of A Multiuser MIMO Relay Channel 2006 ,		14
61	Coordinated Beamforming for Multiuser MIMO Systems with Limited Feedforward 2006 ,		15
60	On the SNR and Diversity of Quantized Precoded MIMO Systems 2006 ,		3
59	WLC06-4: A Lattice-Based MIMO Broadcast Precoder with Block Diagonalization for Multi-Stream Transmission. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006 ,		6
58	A Linear Estimator Optimized for the Structural Similarity Index and its Application to Image Denoising 2006 ,		20
57	WLC38-5: Multi-Antenna Limited Feedback for Temporally-Correlated Channels: Feedback Compression. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006 ,		32
56	WLC11-4: Power Control for Cellular MIMO Systems. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006 ,		2
55	A joint source-channel distortion model for JPEG compressed images. <i>IEEE Transactions on Image Processing</i> , 2006 , 15, 1349-64	8.7	22
54	CTH07-1: Effect of Feedback Delay on Multi-Antenna Limited Feedback for Temporally-Correlated Channels. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006 ,		17
53	2006 ,		15
52	Low complexity user selection algorithms for multiuser MIMO systems with block diagonalization. <i>IEEE Transactions on Signal Processing</i> , 2006 , 54, 3658-3663	4.8	330
51	Channel Adaptive Quantization for Limited Feedback MIMO Beamforming Systems. <i>IEEE Transactions on Signal Processing</i> , 2006 , 54, 4717-4729	4.8	50
50	Performance Analysis of Quantized Beamforming MIMO Systems. <i>IEEE Transactions on Signal Processing</i> , 2006 , 54, 4753-4766	4.8	49
49	. <i>IEEE Transactions on Signal Processing</i> , 2006 , 54, 4730-4740	4.8	53
48	Feedback Techniques for MIMO Channels. <i>Electrical Engineering and Applied Signal Processing Series</i> , 2006 , 113-146		1

47	Space-Time Water-Filling for Composite MIMO Fading Channels. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2006 , 2006, 1	3.2	3
46	Benefit of pattern diversity via two-element array of circular patch antennas in indoor clustered MIMO channels. <i>IEEE Transactions on Communications</i> , 2006 , 54, 943-954	6.9	73
45	Generalized Finite Algorithms for Constructing Hermitian Matrices with Prescribed Diagonal and Spectrum. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2005 , 27, 61-71	1.5	28
44	Opportunistic feedback for downlink multiuser diversity. <i>IEEE Communications Letters</i> , 2005 , 9, 948-950	3.8	101
43	Multimode antenna selection for spatial multiplexing systems with linear receivers. <i>IEEE Transactions on Signal Processing</i> , 2005 , 53, 3042-3056	4.8	138
42	Multimode precoding for MIMO wireless systems. <i>IEEE Transactions on Signal Processing</i> , 2005 , 53, 3674-3687	4.8	104
41	Simulation of MIMO channel capacity with antenna polarization diversity. <i>IEEE Transactions on Wireless Communications</i> , 2005 , 4, 1869-1873	9.6	60
40	Receiver designs for Alamouti coded OFDM systems in fast fading channels. <i>IEEE Transactions on Wireless Communications</i> , 2005 , 4, 550-559	9.6	28
39	Limited feedback unitary precoding for orthogonal space-time block codes. <i>IEEE Transactions on Signal Processing</i> , 2005 , 53, 64-73	4.8	153
38	Necessary and sufficient conditions for full diversity order in correlated Rayleigh fading beamforming and combining systems. <i>IEEE Transactions on Wireless Communications</i> , 2005 , 4, 20-23	9.6	42
37	Interpolation based transmit beamforming for MIMO-OFDM with limited feedback. <i>IEEE Transactions on Signal Processing</i> , 2005 , 53, 4125-4135	4.8	92
36	Space-time interference cancellation in MIMO-OFDM systems. <i>IEEE Transactions on Vehicular Technology</i> , 2005 , 54, 1802-1816	6.8	23
35	OFDM power loading using limited feedback. <i>IEEE Transactions on Vehicular Technology</i> , 2005 , 54, 1773-1780	6.8	55
34	Designing structured tight frames via an alternating projection method. <i>IEEE Transactions on Information Theory</i> , 2005 , 51, 188-209	2.8	279
33	Limited feedback unitary precoding for spatial multiplexing systems. <i>IEEE Transactions on Information Theory</i> , 2005 , 51, 2967-2976	2.8	418
32	Switching between diversity and multiplexing in MIMO systems. <i>IEEE Transactions on Communications</i> , 2005 , 53, 962-968	6.9	246
31	Rate bounds for MIMO relay channels using precoding 2005 ,		28
30	Space-time Chase decoding. <i>IEEE Transactions on Wireless Communications</i> , 2005 , 4, 2035-2039	9.6	16

29	Frame based multiple description image coding in the wavelet domain 2005 ,		5
28	Finite-step algorithms for constructing optimal CDMA signature sequences. <i>IEEE Transactions on Information Theory</i> , 2004 , 50, 2916-2921	2.8	47
27	Diversity performance of precoded orthogonal space-time block codes using limited feedback. <i>IEEE Communications Letters</i> , 2004 , 8, 305-307	3.8	16
26	What is the value of limited feedback for MIMO channels? 2004 , 42, 54-59		321
25	. <i>IEEE Transactions on Information Theory</i> , 2003 , 49, 2735-2747	2.8	868
24	Equal gain transmission in multiple-input multiple-output wireless systems. <i>IEEE Transactions on Communications</i> , 2003 , 51, 1102-1110	6.9	193
23	Corrections to "Equal gain transmission in multiple-input multiple-output wireless systems". <i>IEEE Transactions on Communications</i> , 2003 , 51, 1613-1613	6.9	1
22	Grassmannian frames with applications to coding and communication. <i>Applied and Computational Harmonic Analysis</i> , 2003 , 14, 257-275	3.1	533
21	Spatial multiplexing in correlated fading via the virtual channel representation. <i>IEEE Journal on Selected Areas in Communications</i> , 2003 , 21, 856-866	14.2	55
20	Adaptive modulation and MIMO coding for broadband wireless data networks 2002 , 40, 108-115		231
19	Modelling realistic electromagnetic effects on MIMO system capacity. <i>Electronics Letters</i> , 2002 , 38, 1624-1625	1.1	10
18	. <i>IEEE Transactions on Signal Processing</i> , 2002 , 50, 2429-2441	4.8	181
17	. <i>IEEE Transactions on Signal Processing</i> , 2002 , 50, 96-109	4.8	101
16	Transmit selection in spatial multiplexing systems. <i>IEEE Communications Letters</i> , 2002 , 6, 491-493	3.8	274
15	Multiuser diversity for MIMO wireless systems with linear receivers 2001 ,		119
14	Antenna selection for spatial multiplexing systems with linear receivers. <i>IEEE Communications Letters</i> , 2001 , 5, 142-144	3.8	360
13	Blind identification of multichannel FIR blurs and perfect image restoration. <i>IEEE Transactions on Image Processing</i> , 2000 , 9, 1877-96	8.7	58
12	Transmit diversity using decision-directed antenna hopping 1999 ,		11

11	Exploiting input cyclostationarity for blind channel identification in OFDM systems. <i>IEEE Transactions on Signal Processing</i> , 1999 , 47, 848-856	4.8	133
10	Multiple antenna techniques in small cell networks96-124		
9	Joint Detection for Multi-Antenna Channels311-364		1
8	Quantized multi-mode precoding for spatial multiplexing MIMO-OFDM system		6
7	Quantization on the complex projective space		2
6	Performance of the MIMO downlink channel with multi-mode adaptation and scheduling		5
5	Pattern diversity with multi-mode circular patch antennas in clustered MIMO channels		3
4	Quantization on the Grassmann manifold: applications to precoded MIMO wireless systems		12
3	Frame theoretic quantization for limited feedback MIMO beamforming systems		9
2	Blind equalization in OFDM-based multi-antenna systems		4
1	Distributed Multicell Precoding for Network MIMO. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> ,78-101	0.2	