

# Borching Su

## List of Publications by Year in descending order

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54  
papers

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1163117

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all docs

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docs citations

54  
times ranked

216  
citing authors

#	ARTICLE	IF	CITATIONS
1	Subspace-Based Blind Channel Identification for Cyclic Prefix Systems Using Few Received Blocks. IEEE Transactions on Signal Processing, 2007, 55, 4979-4993.	5.3	47
2	Matrix Characterization for GFDM: Low Complexity MMSE Receivers and Optimal Filters. IEEE Transactions on Signal Processing, 2017, 65, 4940-4955.	5.3	34
3	Wavelet Speech Enhancement Based on Nonnegative Matrix Factorization. IEEE Signal Processing Letters, 2016, 23, 1101-1105.	3.6	23
4	A Generalized Algorithm for Blind Channel Identification with Linear Redundant Precoders. Eurasip Journal on Advances in Signal Processing, 2006, 2007, 1.	1.7	15
5	Suppression by Selecting Wavelets for Feature Compression in Distributed Speech Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 564-579.	5.8	13
6	Circularly Pulse-Shaped Precoding for OFDM: A New Waveform and Its Optimization Design for 5G New Radio. IEEE Access, 2018, 6, 44129-44146.	4.2	12
7	Downlink Precoding for Multiple Users in FDD Massive MIMO Without CSI Feedback. Journal of Signal Processing Systems, 2016, 83, 151-163.	2.1	10
8	Review of VCSELs for Complex Data-Format Transmission Beyond 100-Gbit/s. IEEE Photonics Journal, 2021, 13, 1-13.	2.0	10
9	Improving denoising auto-encoder based speech enhancement with the speech parameter generation algorithm. , 2015, , .		9
10	Filter optimization of out-of-band radiation with performance constraints for GFDM systems. , 2017, , .		8
11	Filter optimization of low out-of-subband emission for universal-filtered multicarrier systems. , 2016, , .		7
12	A generalized deterministic algorithm for blind channel identification with filter bank precoders. , 0, , .		6
13	Multi-timbre chord classification using wavelet transform and self-organized map neural networks. , 0, , .		5
14	Performance Analysis of Generalized Zero-Padded Blind Channel Estimation Algorithms. IEEE Signal Processing Letters, 2007, 14, 789-792.	3.6	5
15	Downlink path-based precoding in FDD massive MIMO systems without CSI feedback. , 2016, , .		5
16	Reducing Cubic Metric of Circularly Pulse-Shaped OFDM Signals through Constellation Shaping Optimization with Performance Constraints. , 2018, , .		5
17	Adaptive subspace-constrained diagonal loading. , 2016, , .		5
18	New Algorithms for Blind Block Synchronization in Zero-Padding Systems. , 2007, , .		4

#	ARTICLE	IF	CITATIONS
19	Comments on "Performance Analysis of a Deterministic Channel Estimator for Block Transmission Systems With Null Guard Intervals. IEEE Transactions on Signal Processing, 2008, 56, 1308-1309.	5.3	4
20	Semiblind channel estimation for OFDM/OQAM systems assisted by zero-valued pilots. , 2015, , .		4
21	Joint window and filter optimization for new waveforms in multicarrier systems. Eurasip Journal on Advances in Signal Processing, 2018, 2018, .	1.7	4
22	Frequency-domain Decoupling for MIMO-GFDM Spatial Multiplexing. , 2019, , .		4
23	QAM-GFDM of Dual-Mode VCSEL Mixed 28-GHz MMW Carrier for Fiber-Wireless Link. Journal of Lightwave Technology, 2021, 39, 6076-6084.	4.6	4
24	Theoretical issues on LTI systems that preserve signal richness. IEEE Transactions on Signal Processing, 2006, 54, 1104-1113.	5.3	3
25	New Blind Block Synchronization for Transceivers Using Redundant Precoders. IEEE Transactions on Signal Processing, 2008, 56, 5987-6002.	5.3	3
26	A new method for DOA estimation in the presence of unknown mutual coupling of an antenna array. , 2014, , .		3
27	Heterogeneous LTE downlink spectrum access using embedded-GFDM. , 2016, , .		3
28	Prototype Filter Design in GFDM Systems in Presence of PA Nonlinearity. , 2018, , .		3
29	Necessary and Sufficient Conditions for LTI Systems to Preserve Signal Richness. , 0, , .		2
30	Staying Rich: LTI Systems Which Preserve Signal Richness. , 0, , .		2
31	Vandermonde-form Preserving Matrices And The Generalized Signal Richness Preservation Problem. , 2006, , .		2
32	Generalized Subspace-based Algorithms For Blind Channel Estimation In Cyclic Prefix Systems. , 2006, , .		2
33	Subspace-based blind channel estimation for cyclic prefixed MIMO-OFDM systems using few received blocks. , 2013, , .		2
34	Subspace-based blind and semiblind channel estimation in OFDM systems with virtual carriers using few received symbols. , 2014, , .		2
35	Acoustic feature conversion using a polynomial based feature transferring algorithm. , 2014, , .		2
36	Cram&#x00E9;r-Rao bound for blind channel estimation in cyclic prefixed MIMO-OFDM systems with few received symbols. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
37	Integrating Sparse Code Multiple Access With Circularly Pulse-Shaped OFDM Waveform for 5G and the Factories of the Future. , 2019, , .		2
38	An X-band Scalable 4 $\times$ 4 Digital Phased Array Module using RF SoC and Antenna-in-Package. , 2019, , .		2
39	Interference-Precancelled Pilot Design for LMMSE Channel Estimation of GFDM. , 2020, , .		2
40	Distributed antipodal paraunitary precoders for OFDM systems. , 0, , .		1
41	Generalized Signal Richness Preservation Problem and Vandermonde-Form Preserving Matrices. IEEE Transactions on Signal Processing, 2007, 55, 2239-2250.	5.3	1
42	The effect of carrier frequency offsets on an IDMA-UFMC system. , 2017, , .		1
43	Beam-Time Block Coding With Joint User Grouping and Beamforming for FDD Massive MIMO Systems. IEEE Access, 2018, 6, 52519-52530.	4.2	1
44	Power Envelope Detection of 40-Gbit/s GFDM Data in Two-color VCSEL Based MMW-Oscillator- Free 5G Network. , 2020, , .		1
45	Optimal Preamble Design for Short Packet Circularly Pulse-Shaped OFDM Transmissions. , 2020, , .		1
46	An X-Band CMOS Digital Phased Array Radar from Hardware to Software. Sensors, 2021, 21, 7382.	3.8	1
47	QAM-DMT of Hybridly Integrated EAM-DFBLD Chip-on-Board With Adaptive Machine Learning Algorithm for 149.6-Gbit/s BtB and 138-Gbit/s 10-km-SMF Transmission. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-13.	2.9	1
48	Extensions of the Signal Richness Preservation Problem in LTI Systems. , 0, , .		0
49	On the Persistency of Excitation for Blind Channel Estimation in Cyclic Prefix Systems. , 2007, , .		0
50	A Semi-Blind Pilot-Assisted Channel Estimation Algorithm in OFDM Systems. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	0
51	Joint Channel Estimation Methods in Carrier Aggregation OFDM Systems. , 2014, , .		0
52	Beamforming-based spatial precoding in FDD massive MIMO systems. , 2014, , .		0
53	Device-to-Device Communication with Dirty Paper Coded Simultaneous Transmission. , 2015, , .		0
54	Power allocation for downlink path-based precoding in multiuser FDD massive MIMO systems without CSI feedback. , 2016, , .		0