

Borching Su

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022, 28, 1-13.	2.9	1
2	QAM-GFDM of Dual-Mode VCSEL Mixed 28-GHz MMW Carrier for Fiber-Wireless Link. <i>Journal of Lightwave Technology</i> , 2021, 39, 6076-6084.	4.6	4
3	Review of VCSELS for Complex Data-Format Transmission Beyond 100-Gbit/s. <i>IEEE Photonics Journal</i> , 2021, 13, 1-13.	2.0	10
4	An X-Band CMOS Digital Phased Array Radar from Hardware to Software. <i>Sensors</i> , 2021, 21, 7382.	3.8	1
5	Interference-Precancelled Pilot Design for LMMSE Channel Estimation of GFDM. , 2020, , .		2
6	Power Envelope Detection of 40-Gbit/s GFDM Data in Two-color VCSEL Based MMW-Oscillator-Free 5G Network. , 2020, , .		1
7	Optimal Preamble Design for Short Packet Circularly Pulse-Shaped OFDM Transmissions. , 2020, , .		1
8	Integrating Sparse Code Multiple Access With Circularly Pulse-Shaped OFDM Waveform for 5G and the Factories of the Future. , 2019, , .		2
9	An X-band Scalable 4 \times 4 Digital Phased Array Module using RF SoC and Antenna-in-Package. , 2019, , .		2
10	Frequency-domain Decoupling for MIMO-GFDM Spatial Multiplexing. , 2019, , .		4
11	Suppression by Selecting Wavelets for Feature Compression in Distributed Speech Recognition. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2018, 26, 564-579.	5.8	13
12	Reducing Cubic Metric of Circularly Pulse-Shaped OFDM Signals through Constellation Shaping Optimization with Performance Constraints. , 2018, , .		5
13	Prototype Filter Design in GFDM Systems in Presence of PA Nonlinearity. , 2018, , .		3
14	Beam-Time Block Coding With Joint User Grouping and Beamforming for FDD Massive MIMO Systems. <i>IEEE Access</i> , 2018, 6, 52519-52530.	4.2	1
15	Joint window and filter optimization for new waveforms in multicarrier systems. <i>Eurasip Journal on Advances in Signal Processing</i> , 2018, 2018, .	1.7	4
16	Circularly Pulse-Shaped Precoding for OFDM: A New Waveform and Its Optimization Design for 5G New Radio. <i>IEEE Access</i> , 2018, 6, 44129-44146.	4.2	12
17	Matrix Characterization for GFDM: Low Complexity MMSE Receivers and Optimal Filters. <i>IEEE Transactions on Signal Processing</i> , 2017, 65, 4940-4955.	5.3	34
18	Filter optimization of out-of-band radiation with performance constraints for GFDM systems. , 2017, , .		8

#	ARTICLE	IF	CITATIONS
19	The effect of carrier frequency offsets on an IDMA-UFMC system. , 2017, , .		1
20	Wavelet Speech Enhancement Based on Nonnegative Matrix Factorization. IEEE Signal Processing Letters, 2016, 23, 1101-1105.	3.6	23
21	Power allocation for downlink path-based precoding in multiuser FDD massive MIMO systems without CSI feedback. , 2016, , .		0
22	Downlink Precoding for Multiple Users in FDD Massive MIMO Without CSI Feedback. Journal of Signal Processing Systems, 2016, 83, 151-163.	2.1	10
23	Downlink path-based precoding in FDD massive MIMO systems without CSI feedback. , 2016, , .		5
24	Heterogeneous LTE downlink spectrum access using embedded-GFDM. , 2016, , .		3
25	Filter optimization of low out-of-subband emission for universal-filtered multicarrier systems. , 2016, , .		7
26	Adaptive subspace-constrained diagonal loading. , 2016, , .		5
27	Improving denoising auto-encoder based speech enhancement with the speech parameter generation algorithm. , 2015, , .		9
28	Device-to-Device Communication with Dirty Paper Coded Simultaneous Transmission. , 2015, , .		0
29	Semiblind channel estimation for OFDM/OQAM systems assisted by zero-valued pilots. , 2015, , .		4
30	Joint Channel Estimation Methods in Carrier Aggregation OFDM Systems. , 2014, , .		0
31	Subspace-based blind and semiblind channel estimation in OFDM systems with virtual carriers using few received symbols. , 2014, , .		2
32	Acoustic feature conversion using a polynomial based feature transferring algorithm. , 2014, , .		2
33	Cramér-Rao bound for blind channel estimation in cyclic prefixed MIMO-OFDM systems with few received symbols. , 2014, , .		2
34	A new method for DOA estimation in the presence of unknown mutual coupling of an antenna array. , 2014, , .		3
35	Beamforming-based spatial precoding in FDD massive MIMO systems. , 2014, , .		0
36	Subspace-based blind channel estimation for cyclic prefixed MIMO-OFDM systems using few received blocks. , 2013, , .		2

#	ARTICLE	IF	CITATIONS
37	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
38	New Blind Block Synchronization for Transceivers Using Redundant Precoders. IEEE Transactions on Signal Processing, 2008, 56, 5987-6002.	5.3	3
39	On the Persistency of Excitation for Blind Channel Estimation in Cyclic Prefix Systems. , 2007, , .		0
40	Generalized Signal Richness Preservation Problem and Vandermonde-Form Preserving Matrices. IEEE Transactions on Signal Processing, 2007, 55, 2239-2250.	5.3	1
41	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
42	Performance Analysis of Generalized Zero-Padded Blind Channel Estimation Algorithms. IEEE Signal Processing Letters, 2007, 14, 789-792.	3.6	5
43	New Algorithms for Blind Block Synchronization in Zero-Padding Systems. , 2007, , .		4
44	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
45	Vandermonde-form Preserving Matrices And The Generalized Signal Richness Preservation Problem. , 2006, , .		2
46	Theoretical issues on LTI systems that preserve signal richness. IEEE Transactions on Signal Processing, 2006, 54, 1104-1113.	5.3	3
47	A Generalized Algorithm for Blind Channel Identification with Linear Redundant Precoders. Eurasip Journal on Advances in Signal Processing, 2006, 2007, 1.	1.7	15
48	Generalized Subspace-based Algorithms For Blind Channel Estimation In Cyclic Prefix Systems. , 2006, , .		2
49	Multi-timbre chord classification using wavelet transform and self-organized map neural networks. , 0, , .		5
50	Necessary and Sufficient Conditions for LTI Systems to Preserve Signal Richness. , 0, , .		2
51	Staying Rich: LTI Systems Which Preserve Signal Richness. , 0, , .		2
52	Distributed antipodal paraunitary precoders for OFDM systems. , 0, , .		1
53	Extensions of the Signal Richness Preservation Problem in LTI Systems. , 0, , .		0
54	A generalized deterministic algorithm for blind channel identification with filter bank precoders. , 0, , .		6