John R Barry

List of Publications by Year
in descending order

33 papers	**826** citations	1040056 **9** h-index	839539 **18** g-index
33 all docs	**33** docs citations	**33** times ranked	**812** citing authors

#	Article	IF	Citations
1	Indoor Channel Characteristics for Visible Light Communications. IEEE Communications Letters, 2011, 15, 217-219.	4.1	448
2	Fast maximum-likelihood decoding of the golden code. IEEE Transactions on Wireless Communications, 2010, 9, 26-31.	9.2	54
3	A Fixed-Complexity Smart Candidate Adding Algorithm for Soft-Output MIMO Detection. IEEE Journal on Selected Topics in Signal Processing, 2009, 3, 1016-1025.	10.8	40
4	Performance and Delay Analysis of Hybrid ARQ With Incremental Redundancy Over Double Rayleigh Fading Channels. IEEE Transactions on Wireless Communications, 2014, 13, 6245-6258.	9.2	39
5	Low-Power Discrete Fourier Transform for OFDM: A Programmable Analog Approach. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 290-298.	5.4	30
6	LDPC Coded OFDM with Alamouti/SVD Diversity Technique. Wireless Personal Communications, 2002, 23, 183-194.	2.7	28
7	Signal Processing and Coding Techniques for 2-D Magnetic Recording: An Overview. Proceedings of the IEEE, 2018, 106, 286-318.	21.3	24
8	Optimization of Bit Geometry and Multi-Reader Geometry for Two-Dimensional Magnetic Recording. IEEE Transactions on Magnetics, 2016, 52, 1-7.	2.1	19
9	Multitrack Detection with 2D Pattern-Dependent Noise Prediction. , 2018, , .		18
10	Channel state information based LLR clipping in list MIMO detection. , 2008, , .		17
11	A Study of TDMR Signal Processing Opportunities Based on Quasi-Micromagnetic Simulations. IEEE Transactions on Magnetics, 2015, 51, 1-7.	2.1	15
12	Optimal LLR Clipping Levels for Mixed Hard/Soft Output Detection. , 2008, , .		11
13	Polar code design for intersymbol interference channels. , 2014, , .		9
14	Reduced-Complexity MIMO Detection via a Slicing Breadth-First Tree Search. IEEE Transactions on Wireless Communications, 2017, 16, 1782-1790.	9.2	9
15	Soft Intertrack Interference Cancellation for Two-Dimensional Magnetic Recording. IEEE Transactions on Magnetics, 2015, 51, 1-9.	2.1	8
16	A Framework for Fixed Complexity Breadth-First MIMO Detection. , 2008, , .		7
17	The Rotating-Target Algorithm for Jointly Detecting Asynchronous Tracks. IEEE Journal on Selected Areas in Communications, 2016, 34, 2463-2469.	14.0	7
18	An Adaptive Minimum-Frame-Error Rate Detector for Magnetic Recording. IEEE Transactions on Magnetics, 2021, , 1-1.	2.1	7

#	Article	IF	Citations
19	Guest editorial: optical wireless communications. IEEE Journal on Selected Areas in Communications, 2009, 27, 1521-1525.	14.0	6
20	Performance of Hybrid-ARQ with Incremental Redundancy over Double Rayleigh Fading Channels. , 2011, , .		6
21	Minimum-Bit-Error Rate Tuning for PDNP Detection. IEEE Transactions on Magnetics, 2021, 57, 1-6.	2.1	6
22	A low-complexity soft-output decoder for polar codes. , 2013, , .		5
23	Jointly Optimizing Stream Allocation, Beamforming and Combining Weights for the MIMO Interference Channel. IEEE Transactions on Wireless Communications, 2015, 14, 2245-2256.	9.2	5
24	Alternate Multiwavelength Picosecond Pulse Generation by Use of an Unbalanced Machâ€"Zehnder Interferometer in a Mode-locked Fiber Ring Laser. IEEE Journal of Quantum Electronics, 2007, 43, 85-96.	1.9	2
25	The performance loss of unilateral interference cancellation. , 2012, , .		2
26	Joint optimization of stream allocation and beamforming and combining weights for the MIMO interference channel. , 2013, , .		2
27	Combined User Selection and MIMO Weight Calculation for AP Cooperation in Dense Wireless Networks. , 2017, , .		1
28	Asynchronous Multitrack Detection With a Generalized Partial-Response Maximum-Likelihood Strategy. IEEE Transactions on Communications, 2022, 70, 1595-1605.	7.8	1
29	A Low-Complexity Upgrade of the Linear Detector for MIMO Channels via Partial Decision Feedback. IEEE Transactions on Wireless Communications, 2007, 6, 1587-1590.	9.2	0
30	A soft-output detector for the golden code. , 2009, , .		0
31	The Asymmetric Golden Code for Fast Decoding on Time-Varying Channels. Wireless Personal Communications, 2011, 58, 421-437.	2.7	0
32	The rotating-target algorithm for jointly detecting asynchronous tracks. , 2016, , .		0
33	Partial-Response Maximum-Likelihood Joint Detection of Asynchronous Tracks. , 2021, , .		0