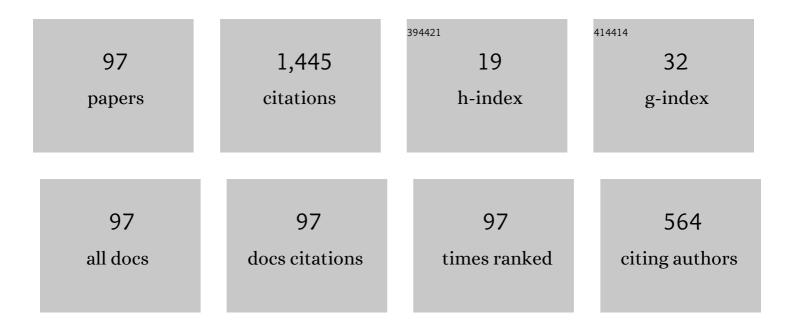
List of Publications by Year in descending order

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ΒΛΝΕ ΜΛΟΙΔΤ

| # | Article | IF | CITATIONS |
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| 1 | On the Construction of Structured LDPC Codes Free of Small Trapping Sets. IEEE Transactions on Information Theory, 2012, 58, 2280-2302. | 2.4 | 89 |
| 2 | Eliminating trapping sets in low-density parity-check codes by using Tanner graph covers. IEEE Transactions on Information Theory, 2008, 54, 3763-3768. | 2.4 | 78 |
| 3 | Channel Models and Detectors for Two-Dimensional Magnetic Recording. IEEE Transactions on Magnetics, 2010, 46, 804-811. | 2.1 | 77 |
| 4 | Error Floors of LDPC Codes on the Binary Symmetric Channel. , 2006, , . | | 73 |
| 5 | Trapping set ontology. , 2009, , . | | 73 |
| 6 | LDPC-Coded MIMO Optical Communication Over the Atmospheric Turbulence Channel. Journal of Lightwave Technology, 2008, 26, 478-487. | 4.6 | 67 |
| 7 | Fault-Tolerant Probabilistic Gradient-Descent Bit Flipping Decoder. IEEE Communications Letters, 2014, 18, 1487-1490. | 4.1 | 62 |
| 8 | Finite Alphabet Iterative Decoders—Part I: Decoding Beyond Belief Propagation on the Binary Symmetric Channel. IEEE Transactions on Communications, 2013, 61, 4033-4045. | 7.8 | 60 |
| 9 | Error-Correction Coded Orbital-Angular-Momentum Modulation for FSO Channels Affected by Turbulence. Journal of Lightwave Technology, 2012, 30, 2846-2852. | 4.6 | 55 |
| 10 | An Information Theoretical Framework for Analysis and Design of Nanoscale Fault-Tolerant Memories Based on Low-Density Parity-Check Codes. IEEE Transactions on Circuits and Systems I: Regular Papers, 2007, 54, 2438-2446. | 5.4 | 49 |
| 11 | Channel Modeling and Capacity Bounds for Two-Dimensional Magnetic Recording. IEEE Transactions on Magnetics, 2010, 46, 812-818. | 2.1 | 40 |
| 12 | Error-Correction Capability of Column-Weight-Three LDPC Codes. IEEE Transactions on Information Theory, 2009, 55, 2055-2061. | 2.4 | 32 |
| 13 | Finite Alphabet Iterative Decoders—Part II: Towards Guaranteed Error Correction of LDPC Codes via Iterative Decoder Diversity. IEEE Transactions on Communications, 2013, 61, 4046-4057. | 7.8 | 31 |
| 14 | Instanton-based techniques for analysis and reduction of error floors of LDPC codes. IEEE Journal on Selected Areas in Communications, 2009, 27, 855-865. | 14.0 | 30 |
| 15 | On Trapping Sets and Guaranteed Error Correction Capability of LDPC Codes and GLDPC Codes. IEEE Transactions on Information Theory, 2010, 56, 1600-1611. | 2.4 | 30 |
| 16 | Efficient Hardware Implementation of Probabilistic Gradient Descent Bit-Flipping. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 906-917. | 5.4 | 27 |
| 17 | Signal Processing and Coding Techniques for 2-D Magnetic Recording: An Overview. Proceedings of the IEEE, 2018, 106, 286-318. | 21.3 | 24 |
| 18 | Pulse Energy Probability Density Functions for Long-Haul Optical Fiber Transmission Systems by Using Instantons and Edgeworth Expansion. IEEE Photonics Technology Letters, 2007, 19, 1604-1606. | 2.5 | 22 |

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| 19 | Two-Bit Bit Flipping Algorithms for LDPC Codes and Collective Error Correction. IEEE Transactions on Communications, 2014, 62, 1153-1163. | 7.8 | 21 |
| 20 | Read Channel Modeling for Detection in Two-Dimensional Magnetic Recording Systems. IEEE Transactions on Magnetics, 2009, 45, 3679-3682. | 2.1 | 20 |
| 21 | Optimization of Bit Geometry and Multi-Reader Geometry for Two-Dimensional Magnetic Recording. IEEE Transactions on Magnetics, 2016, 52, 1-7. | 2.1 | 19 |
| 22 | Error Errore Eicitur: A Stochastic Resonance Paradigm for Reliable Storage of Information on Unreliable Media. IEEE Transactions on Communications, 2016, 64, 3596-3608. | 7.8 | 18 |
| 23 | Learning to Decode LDPC Codes with Finite-Alphabet Message Passing. , 2018, , . | | 18 |
| 24 | Structured LDPC codes from permutation matrices free of small trapping sets. , 2010, , . | | 17 |
| 25 | On Fault Tolerance of the Gallager B Decoder Under Data-Dependent Gate Failures. IEEE Communications Letters, 2015, 19, 1299-1302. | 4.1 | 17 |
| 26 | Trapping Sets of Quantum LDPC Codes. Quantum - the Open Journal for Quantum Science, 0, 5, 562. | 0.0 | 17 |
| 27 | Finite Alphabet Iterative Decoders for LDPC Codes: Optimization, Architecture and Analysis. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 1366-1375. | 5.4 | 16 |
| 28 | Designing Finite Alphabet Iterative Decoders of LDPC Codes Via Recurrent Quantized Neural Networks. IEEE Transactions on Communications, 2020, 68, 3963-3974. | 7.8 | 16 |
| 29 | A Study of TDMR Signal Processing Opportunities Based on Quasi-Micromagnetic Simulations. IEEE Transactions on Magnetics, 2015, 51, 1-7. | 2.1 | 15 |
| 30 | Power Efficient LDPC-Coded Modulation for Free-Space Optical Communication over the Atmospheric Turbulence Channel. , 2007, , . | | 14 |
| 31 | Hardware Implementation and Performance Analysis of Resource Efficient Probabilistic Hard Decision LDPC Decoders. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 3074-3084. | 5.4 | 14 |
| 32 | Reed-Solomon-Based Quasi-Cyclic LDPC Codes: Designs, Cycle Structure and Erasure Correction. , 2018, , . | | 14 |
| 33 | Investigation Into Harmful Patterns Over Multitrack Shingled Magnetic Detection Using the Voronoi Model. IEEE Transactions on Magnetics, 2015, 51, 1-7. | 2.1 | 13 |
| 34 | A Probabilistic Parallel Bit-Flipping Decoder for Low-Density Parity-Check Codes. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 403-416. | 5.4 | 13 |
| 35 | A Sub-Graph Expansion-Contraction Method for Error Floor Computation. IEEE Transactions on Communications, 2020, 68, 3984-3995. | 7.8 | 13 |
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| 38 | Interval-Passing Algorithm for Non-Negative Measurement Matrices: Performance and Reconstruction Analysis. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2012, 2, 424-432. | 3.6 | 11 |
| 39 | Two-bit message passing decoders for LDPC codes over the binary symmetric channel. , 2009, , . | | 10 |
| 40 | Error Correction Capability of Column-Weight-Three LDPC Codes Under the Gallager A Algorithm—Part II. IEEE Transactions on Information Theory, 2010, 56, 2626-2639. | 2.4 | 10 |
| 41 | Generalized belief propagation based TDMR detector and decoder. , 2016, , . | | 10 |
| 42 | 2-D LDPC Codes and Joint Detection and Decoding for Two-Dimensional Magnetic Recording. IEEE Transactions on Magnetics, 2018, 54, 1-11. | 2.1 | 10 |
| 43 | LDPC coded orthogonal frequency division multiplexing over the atmospheric turbulence channel. , 2006, , . | | 9 |
| 44 | Finite alphabet iterative decoding (FAID) of the (155,64,20) Tanner code. , 2010, , . | | 9 |
| 45 | A novel high-throughput, low-complexity bit-flipping decoder for LDPC codes. , 2017, , . | | 9 |
| 46 | Reed-Solomon Based Quasi-Cyclic LDPC Codes: Designs, Girth, Cycle Structure, and Reduction of Short Cycles. IEEE Transactions on Communications, 2019, 67, 5275-5286. | 7.8 | 9 |
| 47 | Syndrome-Based Min-Sum vs OSD-0 Decoders: FPGA Implementation and Analysis for Quantum LDPC Codes. IEEE Access, 2021, 9, 138734-138743. | 4.2 | 8 |
| 48 | Coding for Correcting Insertions and Deletions in Bit-Patterned Media Recording. , 2011, , . | | 6 |
| 49 | Reliability of Memories Built From Unreliable Components Under Data-Dependent Gate Failures. IEEE Communications Letters, 2015, 19, 2098-2101. | 4.1 | 6 |
| 50 | Stochastic resonance decoding for quantum LDPC codes. , 2017, , . | | 6 |
| 51 | Globally Coupled Finite Geometry and Finite Field LDPC Coding Schemes. IEEE Transactions on Vehicular Technology, 2021, 70, 9207-9216. | 6.3 | 6 |
| 52 | Performance of affine geometry low-density parity-check codes in long-haul optical communications. European Transactions on Telecommunications, 2004, 15, 477-483. | 1.2 | 5 |
| 53 | Analytical Performance of One-Step Majority Logic Decoding of Regular LDPC Codes. , 2007, , . | | 5 |
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54 On the guaranteed error correction capability of LDPC codes. , 2008, , .

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| 55 | Guaranteed error correction capability of codes on graphs. , 2009, , . | | 5 |
| 56 | Two-bit bit flipping decoding of LDPC codes. , 2011, , . | | 5 |
| 57 | An efficient exhaustive low-weight codeword search for structured LDPC codes. , 2013, , . | | 5 |
| 58 | Low complexity memory architectures based on LDPC codes: Benefits and disadvantages. , 2015, , . | | 5 |
| 59 | Majority Logic Decoding Under Data-Dependent Logic Gate Failures. IEEE Transactions on Information Theory, 2017, 63, 6295-6306. | 2.4 | 5 |
| 60 | Towards the exact rate-memory trade-off for uncoded caching with secure delivery. , 2017, , . | | 5 |
| 61 | FAID Diversity via Neural Networks. , 2021, , . | | 5 |
| 62 | Transition Response Characteristics of Heat-Assisted Magnetic Recording and Their Performance With MTR Codes. IEEE Transactions on Magnetics, 2007, 43, 2298-2300. | 2.1 | 4 |
| 63 | Can the storage capacity of memories built from unreliable components be determined?. , 2008, , . | | 3 |
| 64 | Iterative reconstruction algorithms in compressed sensing. , 2011, , . | | 3 |
| 65 | Decimation-enhanced finite alphabet iterative decoders for LDPC codes on the BSC. , 2011, , . | | 3 |
| 66 | Check-hybrid GLDPC codes without small trapping sets. , 2014, , . | | 3 |
| 67 | Trapping Set Analysis of Horizontal Layered Decoder. , 2018, , . | | 3 |
| 68 | Syndrome-Generalized Belief Propagation Decoding for Quantum Memories. , 2019, , . | | 3 |
| 69 | Quasi-Cyclic LDPC Codes With Parity-Check Matrices of Column Weight Two or More for Correcting Phased Bursts of Erasures. IEEE Transactions on Communications, 2021, 69, 2812-2823. | 7.8 | 3 |
| 70 | LDPC-Coded MIMO Optical Communication Over the Atmospheric Turbulence Channel. , 2007, , . | | 2 |
| 71 | Girth of the Tanner graph and error correction capability of LDPC codes. , 2008, , . | | 2 |
| 72 | Error and erasure rates for two-dimensional magnetic recording systems. , 2009, , . | | 2 |

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| 73 | Energy-Efficient Free-Space Optical Communication by Coded OAM Modulation. , 2011, , . | | 2 |
| 74 | Blind QIM-LDPC watermarking of 3D-meshes. , 2013, , . | | 2 |
| 75 | GBP-based detection and symmetric information rate for rectangular-grain TDMR model. , 2014, , . | | 2 |
| 76 | Check-hybrid GLDPC codes: Systematic elimination of trapping sets by super checks. , 2014, , . | | 2 |
| 77 | Generalized Belief Propagation Based Deliberate Bit Flipping Modulation Coding. , 2016, , . | | 2 |
| 78 | Asymptotic Error Probability of the Gallager B Decoder Under Timing Errors. IEEE Communications Letters, 2017, 21, 698-701. | 4.1 | 2 |
| 79 | Girth-Eight Reed-Solomon Based QC-LDPC Codes. , 2018, , . | | 2 |
| 80 | A Deliberate Bit Flipping Coding Scheme for Data-Dependent Two-Dimensional Channels. IEEE Transactions on Communications, 2020, 68, 752-764. | 7.8 | 2 |
| 81 | Lozenge tiling constrained codes. Facta Universitatis - Series Electronics and Energetics, 2014, 27, 521-542. | 0.9 | 2 |
| 82 | Short column-weight-three LDPC codes without small trapping sets. , 2010, , . | | 1 |
| 83 | Selecting two-bit bit flipping algorithms for collective error correction. , 2012, , . | | 1 |
| 84 | Enhancing the error correction of finite alphabet iterative decoders via adaptive decimation. , 2012, , . | | 1 |
| 85 | Interval-Passing Algorithm for Chemical Mixture Estimation. IEEE Signal Processing Letters, 2013, 20, 849-852. | 3.6 | 1 |
| 86 | Check-hybrid GLDPC codes: Systematic elimination of trapping sets and guaranteed error correction capability. Transactions on Emerging Telecommunications Technologies, 2016, 27, 1679-1692. | 3.9 | 1 |
| 87 | Serial concatenation of reed muller and LDPC codes with low error floor. , 2017, , . | | 1 |
| 88 | Hard-decision decoding of LDPC codes under timing errors: Overview and new results. , 2017, , . | | 1 |
| 89 | Trapping Set Analysis of Finite-Length Quantum LDPC Codes. , 2021, , . | | 1 |
| 90 | Constraint Satisfaction Through GBP-Guided Deliberate Bit Flipping. Lecture Notes in Computer Science, 2019, , 26-37. | 1.3 | 1 |

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| 91 | Applicability of single- and two-hidden-layer neural networks in decoding linear block codes. , 2021, , . | | 1 |
| 92 | Finite Shift-Invariant Optical Orthogonal Codes for Quasi-Synchronous Communication Systems. , 2006, , . | | 0 |
| 93 | Multilevel Coding for Spectrally Efficient Noncoherent Optical Transmission. , 2006, , . | | 0 |
| 94 | Quasi-cyclic codes exhibiting the gene regulatory network of the cell cycle. , 2012, , . | | 0 |
| 95 | Signal recovery performance of the interval-passing algorithm. , 2012, , . | | 0 |
| 96 | Guest Editorial Channel Modeling, Coding and Signal Processing for Novel Physical Memory Devices and Systems. IEEE Journal on Selected Areas in Communications, 2016, 34, 2289-2293. | 14.0 | 0 |
| 97 | Stochastic resonance in iterative decoding: Message passing and gradient descent bit flipping. , 2017, , . | | ο |