Pradeep Kiran Sarvepalli

List of Publications by Year
in descending order

41 papers	1,206 citations	840776 11 h-index	642732 23 g-index
42 all docs	42 docs citations	42 times ranked	434 citing authors

#	Article	IF	Citations
1	Nonbinary Stabilizer Codes Over Finite Fields. IEEE Transactions on Information Theory, 2006, 52, 4892-4914.	2.4	438
2	On Quantum and Classical BCH Codes. IEEE Transactions on Information Theory, 2007, 53, 1183-1188.	2.4	271
3	Asymmetric quantum codes: constructions, bounds and performance. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2009, 465, 1645-1672.	2.1	93
4	Primitive Quantum BCH Codes over Finite Fields. , 2006, , .		44
5	Sharing classical secrets with Calderbank-Shor-Steane codes. Physical Review A, 2009, 80, .	2.5	40
6	Efficient decoding of topological color codes. Physical Review A, 2012, 85, .	2.5	34
7	Nonthreshold quantum secret-sharing schemes in the graph-state formalism. Physical Review A, 2012, 86, .	2.5	33
8	Asymmetric quantum LDPC codes. , 2008, , .		32
9	Matroids and quantum-secret-sharing schemes. Physical Review A, 2010, 81, .	2.5	27
10	Quantum Convolutional BCH Codes. , 2007, , .		21
11	Clifford Code Constructions of Operator Quantum Error-Correcting Codes. IEEE Transactions on Information Theory, 2008, 54, 5760-5765.	2.4	20
12	On subsystem codes beating the quantum Hamming or Singleton bound. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 2887-2905.	2.1	17
13	Degenerate quantum codes and the quantum Hamming bound. Physical Review A, 2010, 81, .	2.5	16
14	Projecting three-dimensional color codes onto three-dimensional toric codes. Physical Review A, 2018, 98, .	2.5	13
15	Remarkable Degenerate Quantum Stabilizer Codes Derived from Duadic Codes. , 2006, , .		11
16	Communication efficient quantum secret sharing. Physical Review A, 2019, 100, .	2.5	11
17	Topological subsystem codes from graphs and hypergraphs. Physical Review A, 2012, 86, .	2.5	10
18	Algorithms for Change Detection With Sparse Signals. IEEE Transactions on Signal Processing, 2020, 68, 1331-1345.	5.3	9

#	Article	IF	Citations
19	Theory of Communication Efficient Quantum Secret Sharing. IEEE Transactions on Information Theory, 2022, 68, 3164-3186.	2.4	9
20	Local equivalence, surface-code states, and matroids. Physical Review A, 2010, 82, .	2.5	8
21	Quantum Convolutional Codes Derived from Generalized Reed-Solomon Codes. , 2007, , .		5
22	Nonbinary Quantum Codes from Hermitian Curves. Lecture Notes in Computer Science, 2006, , 136-143.	1.3	5
23	Topological color codes over higher alphabet. , 2010, , .		4
24	Bounds on the information rate of quantum-secret-sharing schemes. Physical Review A, 2011, 83, .	2.5	4
25	Decoding the three-dimensional toric codes and welded codes on cubic lattices. Physical Review A, 2019, 100, .	2.5	4
26	Duadic Group Algebra Codes. , 2007, , .		3
27	Encoding Subsystem Codes with and without Noisy Gauge Qubits. , 2009, , .		3
28	Entropic inequalities for a class of quantum secret-sharing states. Physical Review A, 2011, 83, .	2.5	3
29	Relation between surface codes and hypermap-homology quantum codes. Physical Review A, 2014, 89, .	2.5	3
30	Equivalence of 2D color codes (without translational symmetry) to surface codes. , 2015, , .		2
31	Decoding Topological Subsystem Color Codes and Generalized Subsystem Surface Codes. , 2018, , .		2
32	Decoding Toric Codes on Three Dimensional Simplicial Complexes. IEEE Transactions on Information Theory, 2021, 67, 931-945.	2.4	2
33	Performance of Nonbinary Cubic Codes. , 2018, , .		2
34	Latency Optimal Storage and Scheduling of Replicated Fragments for Memory Constrained Servers. IEEE Transactions on Information Theory, 2022, 68, 4135-4155.	2.4	2
35	New decoding algorithms for a class of subsystem codes and generalized shor codes. , 2009, , .		1
36	Symmetry constraints on temporal order in measurement-based quantum computation. Information and Computation, 2016, 250, 115-138.	0.7	1

#	Article	IF	Citations
37	Universal Communication Efficient Quantum Threshold Secret Sharing Schemes. , 2021, , .		1
38	Correcting Erasures with Topological Subsystem Color Codes. , 2021, , .		1
39	Low latency replication coded storage over memory -constrained servers. , 2021, , .		1
40	Quantum codes and symplectic matroids. , 2014, , .		0
41	Quantum bicyclic hyperbolic codes. Quantum Information Processing, 2020, 19, 1.	2.2	0