

# Yingbin Liang

## List of Publications by Year in descending order

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Version: 2024-02-01

77  
papers

3,312  
citations

331259

21  
h-index

174990

52  
g-index

77  
all docs

77  
docs citations

77  
times ranked

1988  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Understanding generalization error of SGD in nonconvex optimization. Machine Learning, 2022, 111, 345-375.   | 3.4 | 2         |
| 2  | Self-Secure Capacity-Achieving Feedback Schemes of Gaussian Multiple-Access Wiretap Channels With Degraded Message Sets. IEEE Transactions on Information Forensics and Security, 2022, 17, 1583-1596. | 4.5 | 3         |
| 3  | When will gradient methods converge to max-margin classifier under ReLU models?. Stat, 2021, 10, e354.   | 0.3 | 2         |
| 4  | Understanding Estimation and Generalization Error of Generative Adversarial Networks. IEEE Transactions on Information Theory, 2021, 67, 3114-3129.  | 1.5 | 3         |
| 5  | MR-GAN: Manifold Regularized Generative Adversarial Networks for Scientific Data. SIAM Journal on Mathematics of Data Science, 2021, 3, 1197-1222.   | 1.0 | 1         |
| 6  | Non-convex low-rank matrix recovery with arbitrary outliers via median-truncated gradient descent. Information and Inference, 2020, 9, 289-325.  | 0.9 | 17        |
| 7  | Robust Dynamic Spectrum Access in Adversarial Environments. , 2020, , .  |     | 1         |
| 8  | Guaranteed Recovery of One-Hidden-Layer Neural Networks via Cross Entropy. IEEE Transactions on Signal Processing, 2020, 68, 3225-3235.  | 3.2 | 10        |
| 9  | Impact of Action-Dependent State and Channel Feedback on Gaussian Wiretap Channels. IEEE Transactions on Information Theory, 2020, 66, 3435-3455.  | 1.5 | 14        |
| 10 | Robust Stochastic Bandit Algorithms under Probabilistic Unbounded Adversarial Attack. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 4036-4043.                              | 3.6 | 8         |
| 11 | The Dirty Paper Wiretap Feedback Channel with or without Action on the State. , 2019, , .  |     | 1         |
| 12 | Secrecy Capacity of Colored Gaussian Noise Channels With Feedback. IEEE Transactions on Information Theory, 2019, 65, 5771-5782.   | 1.5 | 17        |
| 13 | MIMO Gaussian State-Dependent Channels with a State-Cognitive Helper. Entropy, 2019, 21, 273.  | 1.1 | 1         |
| 14 | K-Medoids Clustering of Data Sequences With Composite Distributions. IEEE Transactions on Signal Processing, 2019, 67, 2093-2106.  | 3.2 | 29        |
| 15 | A simple convergence analysis of Bregman proximal gradient algorithm. Computational Optimization and Applications, 2019, 73, 903-912.  | 0.9 | 1         |
| 16 | State-Dependent Interference Channel With Correlated States. IEEE Transactions on Information Theory, 2019, 65, 4518-4531.   | 1.5 | 0         |
| 17 | Estimation of KL Divergence: Optimal Minimax Rate. IEEE Transactions on Information Theory, 2018, 64, 2648-2674.   | 1.5 | 38        |
| 18 | Degraded Broadcast Channel With Secrecy Outside a Bounded Range. IEEE Transactions on Information Theory, 2018, 64, 2104-2120.   | 1.5 | 5         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Data-Driven Nonparametric Existence and Association Problems. IEEE Transactions on Signal Processing, 2018, 66, 6377-6389.                              | 3.2 | 0         |
| 20 | Data-Driven Nonparametric Hypothesis Testing. , 2018, , .   |     | 0         |
| 21 | Parallel Gaussian Channels Corrupted by Independent States With a State-Cognitive Helper. , 2018, , .   |     | 1         |
| 22 | Median-Truncated Nonconvex Approach for Phase Retrieval With Outliers. IEEE Transactions on Information Theory, 2018, 64, 7287-7310.                    | 1.5 | 27        |
| 23 | State-Dependent Gaussian Multiple Access Channels: New Outer Bounds and Capacity Results. IEEE Transactions on Information Theory, 2018, 64, 7866-7882. | 1.5 | 6         |
| 24 | Multi-Key Generation Over a Cellular Model With a Helper. IEEE Transactions on Information Theory, 2017, 63, 3804-3822.                                 | 1.5 | 10        |
| 25 | On the Sum-Rate Capacity of Poisson MISO Multiple Access Channels. IEEE Transactions on Information Theory, 2017, 63, 6457-6473.                        | 1.5 | 2         |
| 26 | Nonparametric Detection of Geometric Structures Over Networks. IEEE Transactions on Signal Processing, 2017, 65, 5034-5046.                             | 3.2 | 12        |
| 27 | Nonparametric Detection of Anomalous Data Streams. IEEE Transactions on Signal Processing, 2017, 65, 5785-5797.   | 3.2 | 18        |
| 28 | Outer bounds for Gaussian multiple access channels with state known at one encoder. , 2017, , .   |     | 0         |
| 29 | Gaussian fading channel with secrecy outside a bounded range. , 2017, , .   |     | 1         |
| 30 | On Compressive orthonormal Sensing. , 2016, , .   |     | 4         |
| 31 | K-user degraded broadcast channel with secrecy outside a bounded range. , 2016, , .   |     | 1         |
| 32 | Capacity Characterization for State-Dependent Gaussian Channel With a Helper. IEEE Transactions on Information Theory, 2016, 62, 7123-7134.             | 1.5 | 5         |
| 33 | Geometrical properties and accelerated gradient solvers of non-convex phase retrieval. , 2016, , .  |     | 6         |
| 34 | Nonparametric Decentralized Detection and Sparse Sensor Selection Via Weighted Kernel. IEEE Transactions on Signal Processing, 2016, 64, 306-321.       | 3.2 | 6         |
| 35 | Rate splitting and sharing for degraded broadcast channel with secrecy outside a bounded range. , 2015, , .   |     | 8         |
| 36 | An Information Theoretic Approach to Secret Sharing. IEEE Transactions on Information Theory, 2015, 61, 3121-3136.                                      | 1.5 | 29        |

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|----|---|------|-----------|
| 37 | State-dependent Gaussian Z-interference channel: Capacity results. , 2015, , .  |      | 1         |
| 38 | Degraded broadcast channel: Secrecy outside of a bounded range. , 2015, , .   |      | 6         |
| 39 | Bounds and Capacity Theorems for Cognitive Interference Channels With State. IEEE Transactions on Information Theory, 2015, 61, 280-304.              | 1.5  | 17        |
| 40 | Broadcast Networks With Layered Decoding and Layered Secrecy: Theory and Applications. Proceedings of the IEEE, 2015, 103, 1841-1856.                 | 16.4 | 16        |
| 41 | Optimal Power Allocation for Poisson Channels With Time-Varying Background Light. IEEE Transactions on Communications, 2015, 63, 4327-4338.           | 4.9  | 7         |
| 42 | State-Dependent Parallel Gaussian Networks With a Common State-Cognitive Helper. IEEE Transactions on Information Theory, 2015, 61, 6680-6699.        | 1.5  | 7         |
| 43 | On the Capacity Bounds for Poisson Interference Channels. IEEE Transactions on Information Theory, 2015, 61, 223-238.                                 | 1.5  | 20        |
| 44 | Unsupervised nonparametric anomaly detection: A kernel method. , 2014, , .  |      | 4         |
| 45 | Sparse sensor selection for nonparametric decentralized detection via $\ell_1/\ell_2$ regularization. , 2014, , .                                     |      | 1         |
| 46 | A Broadcast Approach for Fading Wiretap Channels. IEEE Transactions on Information Theory, 2014, 60, 842-858.   | 1.5  | 34        |
| 47 | The Capacity Region of the Source-Type Model for Secret Key and Private Key Generation. IEEE Transactions on Information Theory, 2014, 60, 6389-6398. | 1.5  | 20        |
| 48 | On the capacity region of Gaussian interference channels with state. , 2013, , .  |      | 9         |
| 49 | Gaussian cognitive interference channels with state. , 2012, , .  |      | 5         |
| 50 | Cooperative Key Generation in Wireless Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 1578-1588.                               | 9.7  | 77        |
| 51 | Special issue on physical-layer security. Journal of Communications and Networks, 2012, 14, 349-351.  | 1.8  | 13        |
| 52 | Nonparametric decentralized detection based on weighted count kernel. , 2012, , .   |      | 0         |
| 53 | A Unified Framework for Key Agreement Over Wireless Fading Channels. IEEE Transactions on Information Forensics and Security, 2012, 7, 480-490.       | 4.5  | 84        |
| 54 | PHY-based cooperative key generation in wireless networks. , 2011, , .  |      | 13        |

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|----|--|-----|-----------|
| 55 | Capacity bounds for a class of cognitive interference channels with state. , 2011, , .   |     | 4         |
| 56 | Distributed Cognitive Radio Network Management via Algorithms in Probabilistic Graphical Models. IEEE Journal on Selected Areas in Communications, 2011, 29, 338-348.  | 9.7 | 14        |
| 57 | Secure Communications Over Wireless Broadcast Networks: Stability and Utility Maximization. IEEE Transactions on Information Forensics and Security, 2011, 6, 682-692. | 4.5 | 32        |
| 58 | On the Equivalence of Two Achievable Regions for the Broadcast Channel. IEEE Transactions on Information Theory, 2011, 57, 95-100.                                     | 1.5 | 14        |
| 59 | Fading Multiple Access Relay Channels: Achievable Rates and Opportunistic Scheduling. IEEE Transactions on Information Theory, 2011, 57, 1911-1931.                    | 1.5 | 15        |
| 60 | Fading Cognitive Multiple-Access Channels With Confidential Messages. IEEE Transactions on Information Theory, 2011, 57, 4992-5005.                                    | 1.5 | 21        |
| 61 | Secrecy Throughput of MANETs Under Passive and Active Attacks. IEEE Transactions on Information Theory, 2011, 57, 6692-6702.   | 1.5 | 32        |
| 62 | Secret sharing via noisy broadcast channels. , 2011, , .   |     | 5         |
| 63 | Nonparametric decision making based on tree-structured information aggregation. , 2011, , .  |     | 2         |
| 64 | Multiple-Input Multiple-Output Gaussian Broadcast Channels With Common and Confidential Messages. IEEE Transactions on Information Theory, 2010, 56, 5477-5487.        | 1.5 | 73        |
| 65 | Key agreement over wireless fading channels with an active attacker. , 2010, , .   |     | 9         |
| 66 | Optimality of Beamforming for MIMO Multiple Access Channels Via Virtual Representation. IEEE Transactions on Signal Processing, 2010, 58, 5458-5463.                   | 3.2 | 6         |
| 67 | On the capacity region of the Poisson interference channels. , 2010, , .   |     | 3         |
| 68 | Capacity of Cognitive Interference Channels With and Without Secrecy. IEEE Transactions on Information Theory, 2009, 55, 604-619.                                      | 1.5 | 143       |
| 69 | Physical layer security in broadcast networks. Security and Communication Networks, 2009, 2, 227-238.  | 1.0 | 27        |
| 70 | Multiple-Access Channels With Confidential Messages. IEEE Transactions on Information Theory, 2008, 54, 976-1002.  | 1.5 | 255       |
| 71 | Secure Communication Over Fading Channels. IEEE Transactions on Information Theory, 2008, 54, 2470-2492.   | 1.5 | 800       |
| 72 | Information Theoretic Security. Foundations and Trends in Communications and Information Theory, 2007, 5, 355-580.   | 2.4 | 458       |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Cooperative Relay Broadcast Channels. IEEE Transactions on Information Theory, 2007, 53, 900-928.   | 1.5 | 169       |
| 74 | Rate Regions for Relay Broadcast Channels. IEEE Transactions on Information Theory, 2007, 53, 3517-3535.                                    | 1.5 | 139       |
| 75 | Resource Allocation for Wireless Fading Relay Channels: Max-Min Solution. IEEE Transactions on Information Theory, 2007, 53, 3432-3453.     | 1.5 | 149       |
| 76 | Gaussian Orthogonal Relay Channels: Optimal Resource Allocation and Capacity. IEEE Transactions on Information Theory, 2005, 51, 3284-3289. | 1.5 | 204       |
| 77 | Capacity of Noncoherent Time-Selective Rayleigh-Fading Channels. IEEE Transactions on Information Theory, 2004, 50, 3095-3110.              | 1.5 | 115       |