

# H B Gooi

## List of Publications by Year in descending order

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52  
papers

2,153  
citations

686830

13  
h-index

794141

19  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2340  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Sizing of Energy Storage for Microgrids. IEEE Transactions on Smart Grid, 2012, 3, 142-151.  | 6.2 | 755       |
| 2  | Spinning Reserve Estimation in Microgrids. IEEE Transactions on Power Systems, 2011, 26, 1164-1174.  | 4.6 | 185       |
| 3  | Multi-Agent System for Distributed Management of Microgrids. IEEE Transactions on Power Systems, 2015, 30, 24-34.  | 4.6 | 177       |
| 4  | DC Grid Voltage Regulation Using New HESS Control Strategy. IEEE Transactions on Sustainable Energy, 2017, 8, 772-781.                                       | 5.9 | 144       |
| 5  | Penetration Rate and Effectiveness Studies of Aggregated BESS for Frequency Regulation. IEEE Transactions on Smart Grid, 2016, 7, 167-177.                   | 6.2 | 138       |
| 6  | A Mixed Integer Quadratic Programming for Dynamic Economic Dispatch With Valve Point Effect. IEEE Transactions on Power Systems, 2014, 29, 2097-2106.        | 4.6 | 95        |
| 7  | Hybrid Energy Storage With Multimode Fuzzy Power Allocator for PV Systems. IEEE Transactions on Sustainable Energy, 2014, 5, 389-397.                        | 5.9 | 84        |
| 8  | Fuzzy MILP Unit Commitment Incorporating Wind Generators. IEEE Transactions on Power Systems, 2008, 23, 1738-1746.   | 4.6 | 82        |
| 9  | A Centralized Reactive Power Compensation System for LV Distribution Networks. IEEE Transactions on Power Systems, 2015, 30, 274-284.                        | 4.6 | 58        |
| 10 | Distributed Congestion Management of Distribution Grids Under Robust Flexible Buildings Operations. IEEE Transactions on Power Systems, 2017, 32, 4600-4613. | 4.6 | 57        |
| 11 | Optimization of Charge/Discharge Rates of a Battery Using a Two-Stage Rate-Limit Control. IEEE Transactions on Sustainable Energy, 2017, 8, 516-529.         | 5.9 | 51        |
| 12 | Jump and Shift Method for Multi-Objective Optimization. IEEE Transactions on Industrial Electronics, 2011, 58, 4538-4548.                                    | 5.2 | 48        |
| 13 | Wi-Fi based server in microgrid energy management system. , 2009, , .  |     | 33        |
| 14 | Multi-agent system for optimization of microgrids. , 2011, , .   |     | 31        |
| 15 | Consumer energy portal and home energy management system for smart grid applications. , 2012, , .  |     | 22        |
| 16 | Scheduling of energy storage in a grid-connected PV/battery system via SIMPLORER. , 2009, , .  |     | 21        |
| 17 | Pricing Mechanism for Flexible Loads Using Distribution Grid Hedging Rights. IEEE Transactions on Power Systems, 2019, 34, 4048-4059.                        | 4.6 | 17        |
| 18 | Simple modulation and control method for new extended boost quasi Z-source. , 2009, , .  |     | 16        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Sizing of energy storage system for microgrids. , 2010, , .  |     | 15        |
| 20 | Performance Measurement and Analysis of WiMAX-LAN Communication Operating at 5.8 GHz. IEEE Transactions on Industrial Informatics, 2013, 9, 1497-1506. | 7.2 | 12        |
| 21 | Firefly algorithm scaled fractional order fuzzy PID based PSS for transient stability improvement. , 2018, , .   |     | 12        |
| 22 | An improved lithium-ion battery model with temperature prediction considering entropy. , 2012, , .   |     | 10        |
| 23 | Blockchain Framework for Peer-to-Peer Energy Trading with Credit Rating. , 2019, , .   |     | 9         |
| 24 | Dispatch Problems Due to Ramp Rate Constraints: Bottleneck Analysis and Solutions. Electric Power Components and Systems, 2003, 31, 995-1006.          | 1.0 | 7         |
| 25 | Cost/benefit and reliability studies on rapid-start units for energy/reserve contributions. , 2009, , .  |     | 7         |
| 26 | Capacitor planning of power systems with wind generators and PV arrays. , 2009, , .  |     | 6         |
| 27 | Application of HESS for PV system with modified control strategy. , 2015, , .  |     | 6         |
| 28 | Stochastic Backward/Forward Sweep Power Flow Analysis for Islanded Microgrids. , 2018, , .   |     | 6         |
| 29 | Hierarchical MPC-based energy management and frequency regulation participation of a virtual power plant. , 2014, , .                                  |     | 5         |
| 30 | The very fast method for contracted capacity optimization problem in Singapore. , 2016, , .  |     | 4         |
| 31 | Dual Tree Complex Wavelet Transform based Detection of Power Quality Disturbances. , 2018, , .   |     | 4         |
| 32 | Effects of DSB on market clearing price. European Transactions on Electrical Power, 2006, 16, 161-173.   | 1.0 | 3         |
| 33 | Spinning reserve estimation in microgrids. , 2009, , .   |     | 3         |
| 34 | Stabilizing Droop Variation of Converter-Connected Generation in Autonomous Microgrids with Virtual Inertia Control. , 2018, , .                       |     | 3         |
| 35 | Improvement in power quality using hybrid power filters based on robust extended Kalman filter. , 2018, , .  |     | 3         |
| 36 | Optimal Scheduling of a Microgrid Including Pump Scheduling and Network Constraints. Complexity, 2018, 2018, 1-20.                                     | 0.9 | 3         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Experiments with hybrid Bernstein global optimization algorithm for the OPF problem in power systems. <i>Engineering Optimization</i> , 2019, 51, 1446-1461. | 1.5 | 3         |
| 38 | Investigation on solar PV and battery system penetration in Singapore distribution power networks. , 2012, , .   |     | 2         |
| 39 | Examining the Bernstein global optimization approach to optimal power flow problem. <i>AIP Conference Proceedings</i> , 2016, , .                            | 0.3 | 2         |
| 40 | A control architecture for optimal power sharing among interconnected microgrids. , 2017, , .  |     | 2         |
| 41 | Charge equalization for series-connected battery cells using SIMO DC-DC converter. , 2017, , .   |     | 2         |
| 42 | Framework for Network-Constrained Cooperative Trading of Multi-Microgrid Systems. , 2020, , .  |     | 2         |
| 43 | A Mining-Rewarding Mechanism for Peer-to-Peer Energy Trading Blockchain. , 2021, , .   |     | 2         |
| 44 | Operating reserve of thermal unit systems with interruptible loads. , 2009, , .  |     | 1         |
| 45 | Using quadratic programming for power flow calculations. , 2010, , .   |     | 1         |
| 46 | Wavelet Transform-Spectral Kurtosis Based Hybrid Technique for Disturbance Detection in a Microgrid. , 2018, , .   |     | 1         |
| 47 | Unit Commitment with AC Power Flow Constraints for a Hybrid Transmission Grid. , 2018, , .   |     | 1         |
| 48 | A Piecewise-Affine Decision Rule based Stochastic AC Optimal Power Flow Approach. , 2020, , .  |     | 1         |
| 49 | Implementation of Frequency Adaptive Damped SOGI Based Control for Power Quality Improvement in Wind-Solar-BES Based AC Microgrids. , 2021, , .              |     | 1         |
| 50 | Thermal unit systems with wind energy penetration. , 2009, , .   |     | 0         |
| 51 | Optimizing probabilistic reserve in large power systems. , 2009, , .   |     | 0         |
| 52 | Peer-to-Peer Power Trading with Voltage and Congestion Management for Distribution Grids. , 2021, , .  |     | 0         |