Canbing Li

List of Publications by Year
in descending order

157 papers	5,569 citations	101543 36 h-index	88630 70 g-index
158 all docs	158 docs citations	158 times ranked	5394 citing authors

#	ARTICLE	IF	CITATIONS
1	An Optimized EV Charging Model Considering TOU Price and SOC Curve. IEEE Transactions on Smart Grid, 2012, 3, 388-393.	9.0	687
2	A review of renewable energy utilization in islands. Renewable and Sustainable Energy Reviews, 2016, 59, 504-513.	16.4	331
3	Optimizing energy consumption for data centers. Renewable and Sustainable Energy Reviews, 2016, 58, 674-691.	16.4	234
4	Distributed Multi-Energy Operation of Coupled Electricity, Heating, and Natural Gas Networks. IEEE Transactions on Sustainable Energy, 2020, 11, 2457-2469.	8.8	223
5	A review of islanding detection methods for microgrid. Renewable and Sustainable Energy Reviews, 2014, 35, 211-220.	16.4	199
6	Taxonomy research of artificial intelligence for deterministic solar power forecasting. Energy Conversion and Management, 2020, 214, 112909.	9.2	186
7	Comprehensive review of renewable energy curtailment and avoidance: A specific example in China. Renewable and Sustainable Energy Reviews, 2015, 41, 1067-1079.	16.4	151
8	Impacts of international trade on global sustainable development. Nature Sustainability, 2020, 3, 964-971.	23.7	150
9	Coordinated control for large-scale EV charging facilities and energy storage devices participating in frequency regulation. Applied Energy, 2014, 123, 253-262.	10.1	146
10	Optimal Scheduling of Biogas–Solar–Wind Renewable Portfolio for Multicarrier Energy Supplies. IEEE Transactions on Power Systems, 2018, 33, 6229-6239.	6.5	138
11	Flexible Voltage Control Strategy Considering Distributed Energy Storages for DC Distribution Network. IEEE Transactions on Smart Grid, 2019, 10, 163-172.	9.0	124
12	EV Dispatch Control for Supplementary Frequency Regulation Considering the Expectation of EV Owners. IEEE Transactions on Smart Grid, 2018, 9, 3763-3772.	9.0	119
13	Interaction between urban microclimate and electric air-conditioning energy consumption during high temperature season. Applied Energy, 2014, 117, 149-156.	10.1	108
14	Transactive Real-Time Electric Vehicle Charging Management for Commercial Buildings With PV On-Site Generation. IEEE Transactions on Smart Grid, 2019, 10, 4939-4950.	9.0	98
15	Optimal Coordinated Control of Multi-Renewable-to-Hydrogen Production System for Hydrogen Fueling Stations. IEEE Transactions on Industry Applications, 2022, 58, 2728-2739.	4.9	92
16	Optimal scheduling of virtual power plant with battery degradation cost. IET Generation, Transmission and Distribution, 2016, 10, 712-725.	2.5	87
17	Peer-to-Peer Multienergy and Communication Resource Trading for Interconnected Microgrids. IEEE Transactions on Industrial Informatics, 2021, 17, 2522-2533.	11.3	74
18	Distributed Multienergy Coordination of Multimicrogrids With Biogas-Solar-Wind Renewables. IEEE Transactions on Industrial Informatics, 2019, 15, 3254-3266.	11.3	73

#	ARTICLE	IF	CITATIONS
19	Dynamic Data Injection Attack Detection of Cyber Physical Power Systems With Uncertainties. IEEE Transactions on Industrial Informatics, 2019, 15, 5505-5518.	11.3	71
20	Optimal Planning of Islanded Integrated Energy System With Solar-Biogas Energy Supply. IEEE Transactions on Sustainable Energy, 2020, 11, 2437-2448.	8.8	70
21	Integrated Modelling and Enhanced Utilization of Power-to-Ammonia for High Renewable Penetrated Multi-Energy Systems. IEEE Transactions on Power Systems, 2020, 35, 4769-4780.	6.5	66
22	Chance-Constrained Optimization-Based Unbalanced Optimal Power Flow for Radial Distribution Networks. IEEE Transactions on Power Delivery, 2013, 28, 1855-1864.	4.3	65
23	An Improved Modulation Scheme of Current-Fed Bidirectional DC–DC Converters For Loss Reduction. IEEE Transactions on Power Electronics, 2018, 33, 4441-4457.	7.9	64
24	Double-Time-Scale Coordinated Voltage Control in Active Distribution Networks Based on MPC. IEEE Transactions on Sustainable Energy, 2020, 11, 294-303.	8.8	60
25	Optimal dispatch for participation of electric vehicles in frequency regulation based on area control error and area regulation requirement. Applied Energy, 2019, 240, 46-55.	10.1	58
26	A Distributed Short-Term Load Forecasting Method Based on Local Weather Information. IEEE Systems Journal, 2018, 12, 208-215.	4.6	56
27	The contributions of cloud technologies to smart grid. Renewable and Sustainable Energy Reviews, 2016, 59, 1326-1331.	16.4	53
28	A trusted energy trading framework by marrying blockchain and optimization. Advances in Applied Energy, 2021, 2, 100029.	13.2	53
29	Hidden Benefits of Electric Vehicles for Addressing Climate Change. Scientific Reports, 2015, 5, 9213.	3.3	50
30	A New Stepwise Power Tariff Model and Its Application for Residential Consumers in Regulated Electricity Markets. IEEE Transactions on Power Systems, 2013, 28, 300-308.	6.5	49
31	A Heuristic Feature Selection Approach for Text Categorization by Using Chaos Optimization and Genetic Algorithm. Mathematical Problems in Engineering, 2013, 2013, 1-6.	1.1	48
32	Distributed Voltage Control Based on ADMM for Large-Scale Wind Farm Cluster Connected to VSC-HVDC. IEEE Transactions on Sustainable Energy, 2020, 11, 584-594.	8.8	47
33	Network constrained economic dispatch of integrated heat and electricity systems through mixed integer conic programming. Energy, 2019, 179, 464-474.	8.8	46
34	Optimal Coordination of Electric Vehicles for Virtual Power Plants With Dynamic Communication Spectrum Allocation. IEEE Transactions on Industrial Informatics, 2021, 17, 450-462.	11.3	42
35	Energy sustainability under the framework of telecoupling. Energy, 2016, 106, 253-259.	8.8	41
36	Carbon emission reduction potential of rural energy in China. Renewable and Sustainable Energy Reviews, 2014, 29, 254-262.	16.4	40

#	ARTICLE	IF	CITATIONS
37	Distributed Optimization-Based Dynamic Tariff for Congestion Management in Distribution Networks. IEEE Transactions on Smart Grid, 2019, 10, 184-192.	9.0	39
38	Method for evaluating the importance of power grid nodes based on PageRank algorithm. IET Generation, Transmission and Distribution, 2014, 8, 1843-1847.	2.5	37
39	Reactive Power Strategy of Cascaded Delta-Connected STATCOM Under Asymmetrical Voltage Conditions. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 784-795.	5.4	37
40	Multiobjective Generation Portfolio of Hybrid Energy Generating Station for Mobile Emergency Power Supplies. IEEE Transactions on Smart Grid, 2018, 9, 5786-5797.	9.0	35
41	Evaluation Method of Distribution Network Resilience Focusing on Critical Loads. IEEE Access, 2018, 6, 61633-61639.	4.2	34
42	Fault Current Hierarchical Limitation Strategy for Fault Ride-Through Scheme of Microgrid. IEEE Transactions on Smart Grid, 2019, 10, 6566-6579.	9.0	33
43	Optimal allocation of multi-type FACTS devices in power systems based on power flow entropy. Journal of Modern Power Systems and Clean Energy, 2014, 2, 173-180.	5.4	32
44	Assessment Method and Indexes of Operating States Classification for Distribution System With Distributed Generations. IEEE Transactions on Smart Grid, 2016, 7, 481-490.	9.0	31
45	ADMM-based market clearing and optimal flexibility bidding of distribution-level flexibility market for day-ahead congestion management of distribution networks. International Journal of Electrical Power and Energy Systems, 2020, 123, 106266.	5.5	31
46	Hierarchical Bipartite Graph Matching Method for Transactive V2V Power Exchange in Distribution Power System. IEEE Transactions on Smart Grid, 2021, 12, 301-311.	9.0	31
47	Modeling and optimal operation of carbon capture from the air driven by intermittent and volatile wind power. Energy, 2015, 87, 201-211.	8.8	30
48	Distributed Coordinated Voltage Control for Distribution Networks With DG and OLTC Based on MPC and Gradient Projection. IEEE Transactions on Power Systems, 2022, 37, 680-690.	6.5	30
49	Aggregator-Based Interactive Charging Management System for Electric Vehicle Charging. Energies, 2016, 9, 159.	3.1	29
50	Dynamic modeling and coordinated multi-energy management for a sustainable biogas-dominated energy hub. Energy, 2021, 220, 119640.	8.8	27
51	Microgrid stochastic economic load dispatch based on two-point estimate method and improved particle swarm optimization. International Transactions on Electrical Energy Systems, 2015, 25, 2144-2164.	1.9	26
52	A Two-Stage Stochastic Programming Approach Considering Risk Level for Distribution Networks Operation With Wind Power. IEEE Systems Journal, 2016, 10, 117-126.	4.6	26
53	A two-stage framework for multiobjective energy management in distribution networks with a high penetration of wind energy. Energy, 2017, 135, 754-766.	8.8	26
54	Multistage Expansion Planning of Integrated Biogas and Electric Power Delivery System Considering the Regional Availability of Biomass. IEEE Transactions on Sustainable Energy, 2021, 12, 920-930.	8.8	25

#	ARTICLE	IF	CITATIONS
55	Multiobjective Model of Time-of-Use and Stepwise Power Tariff for Residential Consumers in Regulated Power Markets. IEEE Systems Journal, 2018, 12, 2676-2687.	4.6	24
56	An Optimal Coordinated Method for EVs Participating in Frequency Regulation Under Different Power System Operation States. IEEE Access, 2018, 6, 62756-62765.	4.2	24
57	Coordinated Droop Control and Adaptive Model Predictive Control for Enhancing HVRT and Post-Event Recovery of Large-Scale Wind Farm. IEEE Transactions on Sustainable Energy, 2021, 12, 1549-1560.	8.8	24
58	What's the difference between traditional power grid and smart grid? &#x2014; From dispatching perspective. , 2013, , .		23
59	Hybrid islanding detection method based on decision tree and positive feedback for distributed generations. IET Generation, Transmission and Distribution, 2015, 9, 1819-1825.	2.5	23
60	Enabling strategies of electric vehicles for under frequency load shedding. Applied Energy, 2018, 228, 843-851.	10.1	23
61	Distributed Online VAR Control for Unbalanced Distribution Networks With Photovoltaic Generation. IEEE Transactions on Smart Grid, 2020, 11, 4760-4772.	9.0	23
62	Two-Stage Full-Data Processing for Microgrid Planning With High Penetrations of Renewable Energy Sources. IEEE Transactions on Sustainable Energy, 2021, 12, 2042-2052.	8.8	23
63	A Fast Sensitivity-Based Preventive Control Selection Method for Online Voltage Stability Assessment. IEEE Transactions on Power Systems, 2018, 33, 4189-4196.	6.5	22
64	Fractal Characteristics Analysis of Blackouts in Interconnected Power Grid. IEEE Transactions on Power Systems, 2018, 33, 1085-1086.	6.5	22
65	Energy Hub's Structural and Operational Optimization for Minimal Energy Usage Costs in Energy Systems. Energies, 2018, 11, 707.	3.1	22
66	MPC-based DC-link voltage control for enhanced high-voltage ride-through of offshore DFIG wind turbine. International Journal of Electrical Power and Energy Systems, 2021, 126, 106591.	5.5	22
67	A coordinated energy security model taking strategic petroleum reserve and alternative fuels into consideration. Energy, 2018, 145, 171-181.	8.8	21
68	Decentralized Voltage and Power Control of Multi-Machine Power Systems With Global Asymptotic Stability. IEEE Access, 2019, 7, 14273-14282.	4.2	21
69	Comprehensive Power Losses Model for Electronic Power Transformer. IEEE Access, 2018, 6, 14926-14934.	4.2	20
70	A Time-Scale Adaptive Dispatch Method for Renewable Energy Power Supply Systems on Islands. IEEE Transactions on Smart Grid, 2016, 7, 1069-1078.	9.0	18
71	Secondary Frequency Regulation Strategy With Fuzzy Logic Method and Self-Adaptive Modification of State of Charge. IEEE Access, 2018, 6, 43575-43585.	4.2	18
72	Short-Term Reliability Assessment for Islanded Microgrid Based on Time-Varying Probability Ordered Tree Screening Algorithm. IEEE Access, 2019, 7, 37324-37333.	4.2	18

#	ARTICLE	IF	CITATIONS
73	How Smart Grid Contributes to Energy Sustainability. Energy Procedia, 2014, 61, 858-861.	1.8	17
74	The Reasonable Range of Life Cycle Utilization Rate of Distribution Network Equipment. IEEE Access, 2018, 6, 23948-23959.	4.2	17
75	Review of Service Restoration Methods in Distribution Networks. , 2018, , .		17
76	Economic dispatch model for wind power integrated system considering the dispatchability of power to gas. IET Generation, Transmission and Distribution, 2019, 13, 1535-1544.	2.5	17
77	Optimal planning of local biomass-based integrated energy system considering anaerobic co-digestion. Applied Energy, 2022, 316, 119075.	10.1	16
78	Influences of Electric Vehicles on Power System and Key Technologies of Vehicle-to-Grid. Power Systems, 2016, , .	0.5	15
79	Static Security Risk Assessment for Islanded Hybrid AC/DC Microgrid. IEEE Access, 2019, 7, 37545-37554.	4.2	15
80	Utilization efficiency of electrical equipment within life cycle assessment: Indexes, analysis and a case. Energy, 2015, 88, 885-896.	8.8	14
81	Multi-Objective Control of Residential HVAC Loads for Balancing the User's Comfort With the Frequency Regulation Performance. IEEE Transactions on Smart Grid, 2022, 13, 3546-3557.	9.0	14
82	Multi-Stage Voltage Support Optimization for Microgrids With Multiple Distributed Generation Units. IEEE Transactions on Smart Grid, 2021, 12, 141-156.	9.0	13
83	Dynamic Similar Sub-Series Selection Method for Time Series Forecasting. IEEE Access, 2018, 6, 32532-32542.	4.2	12
84	Multi-objective optimisation operation of thermostatically controllable appliances for voltage management in low-voltage distribution networks. IET Generation, Transmission and Distribution, 2019, 13, 4767-4777.	2.5	12
85	Many-criteria optimality of coordinated demand response with heterogeneous households. Energy, 2020, 207, 118267.	8.8	12
86	ADMM-based Distributed Active and Reactive Power Control for Regional AC Power Grid with Wind Farms. Journal of Modern Power Systems and Clean Energy, 2022, 10, 588-596.	5.4	12
87	Recent progress of SiC power devices and applications. IEEJ Transactions on Electrical and Electronic Engineering, 2013, 8, 515-521.	1.4	11
88	A Hybrid Control Strategy to Support Voltage in Industrial Active Distribution Networks. IEEE Transactions on Power Delivery, 2018, 33, 2590-2602.	4.3	11
89	A per-unit curve rotated decoupling method for CNN-TCN based day-ahead load forecasting. IET Generation, Transmission and Distribution, 2021, 15, 2773-2786.	2.5	11
90	Flexible Composite Phase-Change Material with Shape Recovery and Antileakage Properties for Battery Thermal Management. ACS Applied Energy Materials, 2021, 4, 13890-13902.	5.1	11

#	Article	IF	Citations
91	Simplified Identification Strategy of Load Model Based on Global Sensitivity Analysis. IEEE Access, 2020, 8, 131545-131552.	4.2	10
92	Novel approach to assess local market power considering transmission constraints. International Journal of Electrical Power and Energy Systems, 2008, 30, 39-45.	5.5	9
93	Credibility forecasting in short–term load forecasting and its application. IET Generation, Transmission and Distribution, 2015, 9, 1564-1571.	2.5	9
94	Hierarchical Event-Triggered MPC-Based Coordinated Control for HVRT and Voltage Restoration of Large-Scale Wind Farm. IEEE Transactions on Sustainable Energy, 2022, 13, 1819-1829.	8.8	8
95	Compatible Decentralized Control of AVR and PSS for Improving Power System Stability. IEEE Systems Journal, 2021, 15, 2410-2419.	4.6	7
96	Active Fault Current Limitation for Low-Voltage Ride-Through of Networked Microgrids. IEEE Transactions on Power Delivery, 2022, 37, 980-992.	4.3	7
97	Thermodynamic modelling of buried transformer substations for dynamic loading capability assessment considering underground heat accumulative effect. International Journal of Electrical Power and Energy Systems, 2020, 121, 106153.	5.5	7
98	Review of the impact of electric vehicles participating in frequency regulation on power grid. , 2013, , .		6
99	China's valuable experiences in defending large-scale and long-time blackouts. , 2013, , .		6
100	A comparative study on grid resource utilization rate between China Southern Power Grid and National Grid Plc of UK. Protection and Control of Modern Power Systems, 2018, 3, .	7.5	6
101	Optimal operating control strategy for biogas generation under electricity spot market. Journal of Engineering, 2019, 2019, 5183-5186.	1.1	6
102	Joining resilience and reliability evaluation against both weather and ageing causes. Renewable and Sustainable Energy Reviews, 2021, 152, 111665.	16.4	6
103	Hierarchical dispatching method based on Hungarian algorithm for reducing the battery degradation cost of EVs participating in frequency regulation. IET Generation, Transmission and Distribution, 2020, 14, 5617-5625.	2.5	6
104	Distributed optimal voltage control strategy for AC grid with DC connection and offshore wind farms based on ADMM. International Journal of Electrical Power and Energy Systems, 2022, 137, 107802.	5.5	6
105	Synergistic and priority control for electric vehicles power allocation in participating in AGC. , 2013, , .		5
106	Fault Current Mitigation and Voltage Support Provision by Microgrids With Synchronous Generators. IEEE Transactions on Smart Grid, 2020, 11, 2816-2831.	9.0	5
107	Robust Optimal Reactive Power Dispatch With Feedback and Correction Against Uncertainty of Transmission Line Parameters. IEEE Access, 2018, 6, 39452-39465.	4.2	4
108	Liquid cooling system for battery modules with boron nitride based thermal conductivity silicone grease. RSC Advances, 2022, 12, 4311-4321.	3.6	4

#	Article	IF	Citations
109	Developing low-loss and temperature-stable $Ba_n(Zr,Nb)_{n-1}O_{3n}$ (n = 7, 8) microwave dielectric ceramics by investigating the relationship between the structure and properties. Inorganic Chemistry Frontiers, 2022, 9, 4442-4451.	6.0	4
110	A Novel Probabilistic Short-Term Load Forecasting Method for Large Power Grid. , 2010, , .		3
111	Energy management system architecture for new energy power supply system of islands. , 2012, , .		3
112	Series Z‐source and nine‐switch dual‐output inverter stage two‐stage matrix converter. IET Power Electronics, 2017, 10, 143-150.	2.1	3
113	Prediction of PV output based on local mean decomposition under limited information. , 2017, , .		3
114	An Adaptive Control Method for Improving Voltage and Frequency Stability of Wind-Thermal Bundled System. IEEE Access, 2020, 8, 179415-179423.	4.2	3
115	SoC threshold optimization for battery storage in frequency regulation considering uncertainty of SoC measurement and automatic generation control fatigue loss of thermal power system. International Journal of Electrical Power and Energy Systems, 2022, 137, 107771.	5.5	3
116	Cost analysis of air capture driven by wind energy under different scenarios. Journal of Modern Power Systems and Clean Energy, 2016, 4, 275-281.	5.4	2
117	Harmonic voltage compensation control strategy for droop-controlled inverter in islanded/grid-connected mode. , 2017, , .		2
118	Asynchronous Method for Frequency Regulation by Dispersed Plug-in Electric Vehicles. International Journal of Emerging Electric Power Systems, 2018, 19, .	0.8	2
119	Substation Capacity Planning Method Considering Interruptible Load. , 2018, , .		2
120	Simplified and fast method without considering filter for voltage flicker detection. IET Generation, Transmission and Distribution, 2020, 14, 3260-3268.	2.5	2
121	A novel solution for fault current suppression in transmission systems based on fault current splitters. Electric Power Systems Research, 2021, 194, 107050.	3.6	2
122	The Response of EV Charging Loads to TOU Price. Power Systems, 2016, , 25-36.	0.5	2
123	A Multisource Retrospective Audit Method for Data Quality Optimization and Evaluation. International Journal of Distributed Sensor Networks, 2015, 2015, 1-8.	2.2	2
124	Structure, phase composition, and microwave dielectric properties of Ba16SnNb12O48 ceramic. Journal of Materials Science, 2022, 57, 5577-5585.	3.7	2
125	Coordinated Optimization Model of the Wind Power Plant with Hydrogen Storage System and Demand Response. , 2021, , .		2
126	Discussion on energy-saving taking urban heat island effect into account. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
127	Common voltage eliminating of SVM diode clamping three-level inverter connected to grid. , 2011, , .		1
128	Social Benefits Calculation of Wind Power in the Last Year of Twelfth Five-Year Plan for China. , 2012, , .		1
129	Forecasting of load model based on typical daily load profile and BP neural network. Proceedings of SPIE, 2013, , .	0.8	1
130	Graphics model analysis for the grid equipment condition-based maintenance. , 2014, , .		1
131	Voltage support for industrial distribution network by using positive/negative sequence passivity-based control. , 2016, , .		1
132	Differentiated Planning Model of Smart gird Considering Black-Start Power Sources. , 2017, , .		1
133	Research and application of subtilized customer clustering algorithm in power marketing. , 2017, , .		1
134	A coordinated control strategy for suppressing transient power fluctuation of power conversion system and stabilizing AC bus voltage. , 2017, , .		1
135	An optimal selfâ€excited heating method for biogas production under cold climate. Journal of Engineering, 2019, 2019, 5094-5098.	1.1	1
136	Dual Hidden Failure Model for Cyber Physical Power System. IEEE Access, 2020, 8, 186148-186156.	4.2	1
137	The Asynchronous Response of Small-Scale Charging Facilities to Grid Frequency. Power Systems, 2016, , 73-85.	0.5	1
138	The Response of Large-Scale EV Charging Loads to Frequency. Power Systems, 2016, , 49-71.	0.5	1
139	The Response of EV Charging Load to the Grid Voltage. Power Systems, 2016, , 37-48.	0.5	1
140	Credibility assessment of short-term load forecast in power system. , 2012, , .		0
141	Consumer electrical equipment asynchronous and coordinating response for frequency regulation. , 2013, , .		0
142	â€œSection to Pointâ€•Correction Method for Wind Power Forecasting Based on Cloud Theory. Mathematical Problems in Engineering, 2015, 2015, 1-10.	1.1	0
143	Differentiated planning in disaster ensuring power supply for special loads. , 2016, , .		0
144	Design of 10kv full buried box-type substation. , 2017, , .		0

#	Article	IF	Citations
145	Study on the steady-state reactive power compensation of half-wavelength transmission lines considering the influences of the equivalent power supply impedance. , 2017, , .		0
146	Optimization model of ramp-capability reserve considering maximum fluctuation of load in short time-scale. , 2017, , .		0
147	Identification of time elasticity of load based on analytic hierarchy process. , 2017, , .		0
148	Sparsity Prevention Pivoting Method for Linear Programming. IEEE Access, 2018, 6, 19560-19567.	4.2	0
149	Solution of interval reactive power optimization model through defining security limits. , 2018, , .		0
150	A Model of Grid Branches Segmentation Differentiated Planning Considering Risk. , 2018, , .		0
151	Fault Modeling and Characteristic Analysis of Offshore Wind Turbines with Doubly Fed Induction Generator. , 2019, , .		0
152	Multiple Attribute Decision Model for Interval Number Sequence Correlation Analysis of Grid Investment. , 2019, , .		0
153	Coordinated Voltage Control of Offshore Wind Farms Combined with AC Grid based on OPF-MPC Method. , 2020, , .		0
154	Influences of EVs on Power System by Improving the Microclimate. Power Systems, 2016, , 1-23.	0.5	0
155	Electrical DebtRank Algorithmâ€"Based Identification of Vulnerable Transmission Lines in Power Systems. Frontiers in Energy Research, 2021, 9, .	2.3	0
156	Coordinated Frequency Control Strategy of PMSG-Based Offshore Wind Farm Connected by VSC-HVDC System. , 2021, , .		0
157	Structural dependence of microwave dielectric properties of Ca3MgSi2O8 ceramics. Journal of Materials Science, 0, , .	3.7	0