List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Improvement of the Standard Ampacity Calculations for Power Cables Installed in Trefoil Formations in Ventilated Tunnels. IEEE Transactions on Power Delivery, 2022, 37, 627-637.	4.3	3
2	Determination of Instantaneous Powers From a Novel Time-Domain Parameter Identification Method of Non-Linear Single-Phase Circuits. IEEE Transactions on Power Delivery, 2022, 37, 3608-3619.	4.3	10
3	New Method to Measure Deep-Saturated Magnetizing Inductances for Dual Reversible Models of Single-Phase Two-Winding Transformers. IEEE Transactions on Power Delivery, 2021, 36, 488-491.	4.3	8
4	Investment Deferral of Feeder Upgrades Revealed by System-Wide Unbalanced Dynamic Rating: Harvesting the Hidden Capacity of Distribution Systems Discovered by Thermal Map Technology. IEEE Transactions on Power Delivery, 2021, 36, 1594-1602.	4.3	3
5	A Self-Organizing Multi-Agent System for Distributed Voltage Regulation. IEEE Transactions on Smart Grid, 2021, 12, 4102-4112.	9.0	9
6	Mitigation of Half-Cycle Saturation of Adjacent Transformers During HVDC Monopolar Operation—Part II: Detecting Zero-Sequence Fault Currents. IEEE Transactions on Power Delivery, 2020, 35, 16-24.	4.3	20
7	Review of Wildfire Management Techniques—Part I: Causes, Prevention, Detection, Suppression, and Data Analytics. IEEE Transactions on Power Delivery, 2020, 35, 430-439.	4.3	67
8	Quantitative Evaluation of DER Smart Inverters for the Mitigation of FIDVR in Distribution Systems. IEEE Transactions on Power Delivery, 2020, 35, 420-429.	4.3	16
9	Experimental Study of Magnetic Effects of Steel Tanks on Three-Phase Transformer Transients. IEEE Transactions on Power Delivery, 2020, 35, 665-673.	4.3	4
10	Closed-Form Determination of the Impedance Locus Plot of Fault Current Limiters: Asymmetrical Faults. IEEE Transactions on Power Delivery, 2020, 35, 754-762.	4.3	0
11	Review of Wildfire Management Techniques—Part II: Urgent Call for Investment in Research and Development of Preventative Solutions. IEEE Transactions on Power Delivery, 2020, 35, 440-450.	4.3	26
12	Real-Time Transient Stability Assessment Using Dynamic Equivalents and Nonlinear Observers. IEEE Transactions on Power Systems, 2020, 35, 2981-2992.	6.5	14
13	Load Estimation of Complex Power Networks from Transformer Measurements and Forecasted Loads. Complexity, 2020, 2020, 1-14.	1.6	1
14	Introduction to the Special Issue on Advances in Condition Monitoring and Assessment of Power Equipment. IEEE Transactions on Power Delivery, 2019, 34, 1219-1220.	4.3	5
15	Generalized Circuit Model for Eddy Current Effects in Multi-Winding Transformers. IEEE Transactions on Power Delivery, 2019, 34, 638-650.	4.3	5
16	Experimentally Validated Method to Measure the <inline-formula> <tex-math notation="LaTeX">\${lambda}\$ </tex-math </inline-formula> – <inline-formula> <tex-math notation="LaTeX">\${i}\$ </tex-math> </inline-formula> Characteristics of Asymmetric Three-Phase Transformers. IFFF Transactions on Magnetics. 2019. 55. 1-9.	2.1	5
17	Mitigation of Half-Cycle Saturation of Adjacent Transformers During HVDC Monopolar Operation—Part I: Mitigation Principle and Device Design. IEEE Transactions on Power Delivery, 2019, 34, 2232-2239.	4.3	16
18	Retrofitting the BCTRAN Transformer Model With Nonlinear Magnetizing Branches for the Accurate Study of Low-Frequency Deep Saturating Transients. IEEE Transactions on Power Delivery, 2018, 33, 2344-2353.	4.3	21

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19	Smart load management of distributionâ€class toroidal transformers using a dynamic thermal model. IET Generation, Transmission and Distribution, 2018, 12, 142-149.	2.5	17
20	Looping Radial Distribution Systems Using Superconducting Fault Current Limiters: Feasibility and Economic Analysis. IEEE Transactions on Power Systems, 2018, 33, 2486-2495.	6.5	21
21	Centralized Unbalanced Dispatch of Smart Distribution DC Microgrid Systems. IEEE Transactions on Smart Grid, 2018, 9, 2852-2861.	9.0	21
22	Dynamic Demand Response Using Customer Coupons Considering Multiple Load Aggregators to Simultaneously Achieve Efficiency and Fairness. IEEE Transactions on Smart Grid, 2018, 9, 3112-3121.	9.0	40
23	An Online Data-Driven Technique for the Detection of Transformer Winding Deformations. IEEE Transactions on Power Delivery, 2018, 33, 600-609.	4.3	31
24	Experimental Evaluation of Available Computational Methods for Eddy Current and Hysteresis Losses for Cables Installed in Steel Pipes. IEEE Transactions on Power Delivery, 2018, 33, 1777-1786.	4.3	7
25	Estimation of Design Parameters of Single-Phase Distribution Transformers from Terminal Measurements. , 2018, , .		Ο
26	Two-Zone Geological Soil Moisture Migration Model for Cable Thermal Rating. IEEE Transactions on Power Delivery, 2018, 33, 3196-3204.	4.3	9
27	Enhanced Thermal Model of Power Cables Installed in Ducts for Ampacity Calculations. IEEE Transactions on Power Delivery, 2018, 33, 2404-2411.	4.3	23
28	Closed-Form Determination of the Impedance Locus Plot of Fault Current Limiters: A Rigorous Approach With Graphical Representation. IEEE Transactions on Power Delivery, 2018, 33, 2710-2717.	4.3	3
29	Time Series Power Flow Framework for the Analysis of FIDVR Using Linear Regression. IEEE Transactions on Power Delivery, 2018, 33, 2946-2955.	4.3	12
30	Analysis of Energy Savings of CVR Including Refrigeration Loads in Distribution Systems. IEEE Transactions on Power Delivery, 2018, 33, 158-168.	4.3	26
31	Controlling Non-Synchronous Microgrids for Load Balancing of Radial Distribution Systems. IEEE Transactions on Smart Grid, 2017, 8, 2608-2616.	9.0	43
32	Parameter Estimation of Three-Phase Transformer Models for Low-Frequency Transient Studies From Terminal Measurements. IEEE Transactions on Magnetics, 2017, 53, 1-8.	2.1	13
33	Optimal design of resonant coupled multi-receiver wireless power transfer systems. , 2017, , .		4
34	Thermal Analysis of Power Cables Installed in Solid Bottom Trays Using an Equivalent Circuit. IEEE Transactions on Power Delivery, 2017, 32, 2130-2139.	4.3	8
35	Conceptual Modeling Framework to Integrate Resilient and Interdependent Infrastructure in Extreme Weather. Journal of Infrastructure Systems, 2017, 23,	1.8	39
36	Determination of the Optimal Switching Frequency for Distribution System Reconfiguration. IEEE Transactions on Power Delivery, 2017, 32, 2060-2069.	4.3	67

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37	Estimation of Design Parameters of Single-Phase Distribution Transformers From Terminal Measurements. IEEE Transactions on Power Delivery, 2017, 32, 2031-2039.	4.3	18
38	Reduction of Stray Loss in Power Transformers Using Horizontal Magnetic Wall Shunts. IEEE Transactions on Magnetics, 2017, 53, 1-7.	2.1	43
39	Analysis and design of efficient IPT wireless charging systems for electric vehicle. , 2017, , .		3
40	Design of a multi-agent system for distributed voltage regulation. , 2017, , .		5
41	Prioritizing the Restoration of Network Transformers Using Distribution System Loading and Reliability Indices. IEEE Transactions on Power Delivery, 2017, 32, 1236-1243.	4.3	6
42	Magnetic field distribution in a WPT system for electric vehicle charging. , 2016, , .		4
43	Supplementary damping controller of grid connected dc micro-grids based on Q-learning. , 2016, , .		2
44	Duality-Derived Transformer Models for Low-Frequency Electromagnetic Transients—Part II: Complementary Modeling Guidelines. IEEE Transactions on Power Delivery, 2016, 31, 2420-2430.	4.3	32
45	Design of a wireless charging system with a phaseâ€controlled inverter under varying parameters. IET Power Electronics, 2016, 9, 2461-2470.	2.1	24
46	Experimental Parameter Determination and Laboratory Verification of the Inverse Hysteresis Model for Single-Phase Toroidal Transformers. IEEE Transactions on Magnetics, 2016, 52, 1-9.	2.1	10
47	Duality Derived Transformer Models for Low-Frequency Electromagnetic Transients—Part I: Topological Models. IEEE Transactions on Power Delivery, 2016, 31, 2410-2419.	4.3	65
48	Reduction of Inrush Currents in Toroidal Transformers by Sector Winding Design. IEEE Transactions on Power Electronics, 2016, , 1-1.	7.9	8
49	Evaluation of DC Links on Dense-Load Urban Distribution Networks. IEEE Transactions on Power Delivery, 2016, 31, 1317-1326.	4.3	35
50	Optimal Power Dispatch Under Load Uncertainty Using a Stochastic Approximation Method. IEEE Transactions on Power Systems, 2016, 31, 4495-4503.	6.5	6
51	Investigation of Transformer-Based Solutions for the Reduction of Inrush and Phase-Hop Currents. IEEE Transactions on Power Electronics, 2016, 31, 3506-3516.	7.9	13
52	Benefits of a Nonsynchronous Microgrid on Dense-Load LV Secondary Networks. IEEE Transactions on Power Delivery, 2016, 31, 1076-1084.	4.3	21
53	Combined Effect of CVR and DG Penetration in the Voltage Profile of Low-Voltage Secondary Distribution Networks. IEEE Transactions on Power Delivery, 2016, 31, 286-293.	4.3	63
54	Mitigation of Geomagnetically Induced Currents by Neutral Switching. IEEE Transactions on Power Delivery, 2015, 30, 1999-2006.	4.3	45

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55	Introducing Mutual Heating Effects in the Ladder-Type Soil Model for the Dynamic Thermal Rating of Underground Cables. IEEE Transactions on Power Delivery, 2015, 30, 1958-1964.	4.3	22
56	A Reconfigurable Auto-Loop Microgrid. IEEE Transactions on Power Delivery, 2015, 30, 1644-1645.	4.3	11
57	Duality-Based Transformer Model Including Eddy Current Effects in the Windings. IEEE Transactions on Power Delivery, 2015, 30, 2312-2320.	4.3	17
58	Enhanced Analytical Method for the Calculation of the Maximum Inrush Currents of Single-Phase Power Transformers. IEEE Transactions on Power Delivery, 2015, 30, 2590-2599.	4.3	25
59	Adaptive soil model for realâ€ŧime thermal rating of underground power cables. IET Science, Measurement and Technology, 2015, 9, 654-660.	1.6	15
60	Equivalent circuit for the thermal analysis of cables in nonâ€vented vertical risers. IET Science, Measurement and Technology, 2015, 9, 606-614.	1.6	6
61	Lissajous Curve Methods for the Identification of Nonlinear Circuits: Calculation of a Physical Consistent Reactive Power. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2874-2885.	5.4	15
62	Elimination of Residual Flux in Transformers by the Application of an Alternating Polarity DC Voltage Source. IEEE Transactions on Power Delivery, 2015, 30, 1727-1734.	4.3	27
63	Experimentally Validated Reversible Single-Phase Multiwinding Transformer Model for the Accurate Calculation of Low-Frequency Transients. IEEE Transactions on Power Delivery, 2015, 30, 193-201.	4.3	23
64	Transformer leakage flux models for electromagnetic transients: Critical review and validation of a new model. , 2014, , .		2
65	Ladder-Type Soil Model for Dynamic Thermal Rating of Underground Power Cables. IEEE Power and Energy Technology Systems Journal, 2014, 1, 21-30.	2.8	43
66	Design algorithm of a uniform magnetic field transmitter intended for the wireless charging of electric vehicles. , 2014, , .		3
67	Multiphase resonant inverters for bidirectional wireless power transfer. , 2014, , .		9
68	Edge position detection of on-line vehicles with segmental wireless power supply. , 2014, , .		1
69	Multiphase resonant inverters with common resonant circuit. , 2014, , .		9
70	Improved Computation of Core Inductance for Fast Transient Analysis of Transformers. IEEE Transactions on Power Delivery, 2014, 29, 2034-2036.	4.3	4
71	Accurate Measurement of the Air-Core Inductance of Iron-Core Transformers With a Non-Ideal Low-Power Rectifier. IEEE Transactions on Power Delivery, 2014, 29, 294-296.	4.3	25
72	Leakage Inductance Design of Toroidal Transformers by Sector Winding. IEEE Transactions on Power Electronics, 2014, 29, 473-480.	7.9	54

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73	Transformer Leakage Flux Models for Electromagnetic Transients: Critical Review and Validation of a New Model. IEEE Transactions on Power Delivery, 2014, 29, 2180-2188.	4.3	23
74	Thermal Analysis of Power Cables in Free Air: Evaluation and Improvement of the IEC Standard Ampacity Calculations. IEEE Transactions on Power Delivery, 2014, 29, 2306-2314.	4.3	49
75	Energy and Economic Impacts of the Application of CVR in Heavily Meshed Secondary Distribution Networks. IEEE Transactions on Power Delivery, 2014, 29, 1692-1700.	4.3	19
76	Analysis, Modeling, and Simulation of the Phase-Hop Condition in Transformers: The Largest Inrush Currents. IEEE Transactions on Power Delivery, 2014, 29, 1918-1926.	4.3	11
77	Calculation of cable thermal rating considering nonâ€isothermal earth surface. IET Generation, Transmission and Distribution, 2014, 8, 1354-1361.	2.5	16
78	Experimental Determination of the ZIP Coefficients for Modern Residential, Commercial, and Industrial Loads. IEEE Transactions on Power Delivery, 2014, 29, 1372-1381.	4.3	287
79	Improvement of a Method to Compute the Inductance Matrix of Multilayer Transformer Windings for Very Fast Transients. IEEE Transactions on Power Delivery, 2013, 28, 1245-1246.	4.3	6
80	Field-Validated Load Model for the Analysis of CVR in Distribution Secondary Networks: Energy Conservation. IEEE Transactions on Power Delivery, 2013, 28, 2428-2436.	4.3	116
81	Dual Reversible Transformer Model for the Calculation of Low-Frequency Transients. IEEE Transactions on Power Delivery, 2013, 28, 2509-2517.	4.3	51
82	Validated Transient Heat-Transfer Model for Underground Transformer in Rectangular Vault. IEEE Transactions on Power Delivery, 2013, 28, 1770-1778.	4.3	13
83	Long Duration Overvoltages due to Current Backfeeding in Secondary Networks. IEEE Transactions on Power Delivery, 2013, 28, 2500-2508.	4.3	14
84	A Comparative Study on \$pi\$ and \$T\$ Equivalent Models for the Analysis of Transformer Ferroresonance. IEEE Transactions on Power Delivery, 2013, 28, 526-528.	4.3	22
85	Duality-Synthesized Circuit for Eddy Current Effects in Transformer Windings. IEEE Transactions on Power Delivery, 2013, 28, 1063-1072.	4.3	18
86	Development of Data Translators for Interfacing Power-Flow Programs With EMTP-Type Programs: Challenges and Lessons Learned. IEEE Transactions on Power Delivery, 2013, 28, 1192-1201.	4.3	11
87	Parametric Study of Losses in Cross-Bonded Cables: Conductors Transposed Versus Conductors Nontransposed. IEEE Transactions on Power Delivery, 2013, 28, 2273-2281.	4.3	8
88	A time sequence load-flow method for steady-state analysis in heavily meshed distribution network with DG. , 2013, , .		3
89	Energy minimization for catenary-free mass transit systems using Particle Swarm Optimization. , 2012, ,		8
90	Equivalent Circuit for the Leakage Inductance of Multiwinding Transformers: Unification of Terminal and Duality Models, IEEE Transactions on Power Delivery, 2012, 27, 353-361.	4.3	38

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91	Closed-Form Analysis of Squirrel-Cage Induction Motors With Anisotropic Modeling of Stator and Rotor. IEEE Transactions on Energy Conversion, 2012, 27, 553-560.	5.2	7
92	AC Power Theory From Poynting Theorem: Identification of the Power Components of Magnetic Saturating and Hysteretic Circuits. IEEE Transactions on Power Delivery, 2012, 27, 1548-1556.	4.3	15
93	Comparing the T and \$pi\$ Equivalent Circuits for the Calculation of Transformer Inrush Currents. IEEE Transactions on Power Delivery, 2012, 27, 2390-2398.	4.3	71
94	Analysis of Voltage Profile Problems Due to the Penetration of Distributed Generation in Low-Voltage Secondary Distribution Networks. IEEE Transactions on Power Delivery, 2012, 27, 2020-2028.	4.3	157
95	Three–Phase Time–Domain Simulation of Very Large Distribution Networks. IEEE Transactions on Power Delivery, 2012, 27, 677-687.	4.3	38
96	Heat-Transfer Model for Toroidal Transformers. IEEE Transactions on Power Delivery, 2012, 27, 813-820.	4.3	34
97	Thermal Analysis of Cables in Unfilled Troughs: Investigation of the IEC Standard and a Methodical Approach for Cable Rating. IEEE Transactions on Power Delivery, 2012, 27, 1423-1431.	4.3	28
98	On the Transient Behavior of Large-Scale Distribution Networks During Automatic Feeder Reconfiguration. IEEE Transactions on Smart Grid, 2012, 3, 887-896.	9.0	50
99	Optimal Distributed Voltage Regulation for Secondary Networks With DGs. IEEE Transactions on Smart Grid, 2012, 3, 959-967.	9.0	130
100	Assessment of errors introduced by common assumptions made in power system studies. , 2011, , .		4
101	Computation of the dielectric stresses produced by PWM type waveforms on medium voltage transformer windings. , 2011 , , .		7
102	Accurate and Efficient Computation of the Inductance Matrix of Transformer Windings for the Simulation of Very Fast Transients. IEEE Transactions on Power Delivery, 2011, 26, 1423-1431.	4.3	38
103	Eliminating sub-synchronous oscillations with an induction machine damping unit (IMDU). , 2011, , .		0
104	Tools for Analysis and Design of Distributed Resources—Part II: Tools for Planning, Analysis and Design of Distribution Networks With Distributed Resources. IEEE Transactions on Power Delivery, 2011, 26, 1653-1662.	4.3	29
105	Mitigation of Inrush Currents in Network Transformers by Reducing the Residual Flux With an Ultra-Low-Frequency Power Source. IEEE Transactions on Power Delivery, 2011, 26, 1563-1570.	4.3	47
106	Design Formulas for the Leakage Inductance of Toroidal Distribution Transformers. IEEE Transactions on Power Delivery, 2011, 26, 2197-2204.	4.3	39
107	Impulse-Response Analysis of Toroidal Core Distribution Transformers for Dielectric Design. IEEE Transactions on Power Delivery, 2011, 26, 1231-1238.	4.3	29
108	Eliminating Subsynchronous Oscillations With an Induction Machine Damping Unit (IMDU). IEEE Transactions on Power Systems, 2011, 26, 225-232.	6.5	14

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109	Effects of Conductor Counter-Transposition on the Positive-Sequence Impedance and Losses of Cross-Bonded Cables. IEEE Transactions on Power Delivery, 2011, 26, 2060-2063.	4.3	14
110	Selection of copper against aluminium windings for distribution transformers. IET Electric Power Applications, 2010, 4, 474.	1.8	47
111	A Robust Multiphase Power Flow for General Distribution Networks. IEEE Transactions on Power Systems, 2010, 25, 760-768.	6.5	52
112	Separation of core losses in distribution transformers using experimental methods. Canadian Journal of Electrical and Computer Engineering, 2010, 35, 33-39.	2.0	10
113	AC Power Theory From Poynting Theorem: Accurate Identification of Instantaneous Power Components in Nonlinear-Switched Circuits. IEEE Transactions on Power Delivery, 2010, 25, 2104-2112.	4.3	29
114	Simulation tools for analysis of distribution systems with distributed resources. Present and future trends. , 2010, , .		5
115	Dual Three-Winding Transformer Equivalent Circuit Matching Leakage Measurements. IEEE Transactions on Power Delivery, 2009, 24, 160-168.	4.3	56
116	Discussion of "Transformer Modeling for Low- and Mid-Frequency Transients - A Review". IEEE Transactions on Power Delivery, 2008, 23, 1696-1697.	4.3	5
117	Discussion of "Instantaneous Reactive Power p-q Theory and Power Properties of Three-Phase Systems". IEEE Transactions on Power Delivery, 2008, 23, 1693-1694.	4.3	16
118	Effects of Backfilling on Cable Ampacity Analyzed With the Finite Element Method. IEEE Transactions on Power Delivery, 2008, 23, 537-543.	4.3	103
119	Unbalanced Multiphase Load-Flow Using a Positive-Sequence Load-Flow Program. IEEE Transactions on Power Systems, 2008, 23, 469-476.	6.5	41
120	Major factors affecting cable ampacity. , 2006, , .		25
121	A practical approach to power factor definitions: transmission losses, reactive power compensation, and machine utilization. , 2006, , .		12
122	Discussion of "Generalized Theory of Instantaneous Reactive Quantity for Multiphase Power System― IEEE Transactions on Power Delivery, 2006, 21, 540-541.	4.3	11
123	2D finite-element determination of tank wall losses in pad-mounted transformers. Electric Power Systems Research, 2004, 71, 179-185.	3.6	21
124	Improved Insert Geometry for Reducing Tank-Wall Losses in Pad-Mounted Transformers. IEEE Transactions on Power Delivery, 2004, 19, 1120-1126.	4.3	21
125	Discussion of "A Wide-Band Lumped Circuit Model of Eddy Current Losses in a Coil With a Coaxial Insulation System and a Stranded Conductor― IEEE Transactions on Power Delivery, 2004, 19, 902-902. 	4.3	2
126	Discussion of "A new preconditioned conjugate gradient power flow". IEEE Transactions on Power Systems, 2003, 18, 1601.	6.5	2

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127	Discussion of "Accurate modeling of core-type distribution transformers for electromagnetic transient studies". IEEE Transactions on Power Delivery, 2003, 18, 640.	4.3	1
128	Discussion of "An evaluation of some alternative methods of power resolution in a large industrial plant". IEEE Transactions on Power Delivery, 2003, 18, 658-659.	4.3	3
129	Discussion of "proposed standards for frequency conversion factors of transformer performance parameters". IEEE Transactions on Power Delivery, 2003, 18, 1599-1600.	4.3	0
130	Iterative solvers in the Newton power flow problem: preconditioners, inexact solutions, and partial Jacobian updates. IET Generation, Transmission and Distribution, 2002, 149, 479.	1.1	27
131	Quasi-Newton power flow using partial Jacobian updates. IEEE Transactions on Power Systems, 2001, 16, 332-339.	6.5	34
132	Physical time domain representation of powers in linear and nonlinear electrical circuits. IEEE Transactions on Power Delivery, 1999, 14, 1240-1249.	4.3	16
133	A simple representation of dynamic hysteresis losses in power transformers. IEEE Transactions on Power Delivery, 1995, 10, 315-321.	4.3	64
134	Detailed modeling of eddy current effects for transformer transients. IEEE Transactions on Power Delivery, 1994, 9, 1143-1150.	4.3	40
135	Complete transformer model for electromagnetic transients. IEEE Transactions on Power Delivery, 1994, 9, 231-239.	4.3	221
136	Time domain modeling of eddy current effects for transformer transients. IEEE Transactions on Power Delivery, 1993, 8, 271-280.	4.3	113
137	Computation of electromagnetic transients using dual or multiple time steps. IEEE Transactions on Power Systems, 1993, 8, 1274-1281.	6.5	49
138	Reduced order model for transformer transients. IEEE Transactions on Power Delivery, 1992, 7, 361-369.	4.3	79
139	Efficient calculation of elementary parameters of transformers. IEEE Transactions on Power Delivery, 1992, 7, 376-383.	4.3	76
140	Damping power system oscillations by unidirectional control of alternative power generation plants.		11
141	Improved insert geometry for reducing tank wall. , 0, , .		0