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نام و نام خانوادگی	مهران صباحی
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آدرس محل کار	دانشکده مهندسی برق و کامپیوتر
تلفن	3393717-0411
فکس	3300829-0411
پست الکترونیک	sabahi@tabrizu.ac.ir
آدرس وب سایت	

تحصیلات

(1) دکتری حرفه‌ای، ---، مهندسی برق - قدرت، دانشگاه تبریز

عناوین دروس

- (1) آز الکترونیک- صنعتی، کارشناسی B.Sc
- (2) آز الکترونیک صنعتی، کارشناسی B.Sc
- (3) آز ماشینهای الکتریکی (1)، کارشناسی B.Sc
- (4) آز مبانی برق، کارشناسی B.Sc
- (5) آز مبانی مهندسی برق، کارشناسی B.Sc
- (6) آز مبانی مهندسی برق، کارشناسی B.Sc
- (7) الکترونیک صنعتی، کارشناسی B.Sc
- (8) الکترونیک صنعتی، کارشناسی B.Sc
- (9) اندازه گیری الکتریکی، کارشناسی B.Sc
- (10) پروژه تخصصی قدرت، کارشناسی B.Sc
- (11) پروژه کارشناسی، کارشناسی B.Sc
- (12) کارآموزی، کارشناسی B.Sc
- (13) کارآموزی، کارشناسی B.Sc
- (14) ماشینهای الکتریکی دو، کارشناسی B.Sc
- (15) ماشینهای الکتریکی یک، کارشناسی B.Sc
- (16) ماشین های الکتریکی 2، کارشناسی B.Sc
- (17) مبانی مهندسی برق، کارشناسی B.Sc
- (18) انرژی های تجدیدپذیر، کارشناسی ارشد M.Sc
- (19) بررسی و شناخت انرژی های نو، کارشناسی ارشد M.Sc
- (20) بررسی و شناخت انرژی های نو، کارشناسی ارشد M.Sc
- (21) بررسی و شناخت انرژی های نو، کارشناسی ارشد M.Sc
- (22) پایان نامه، کارشناسی ارشد M.Sc
- (23) سمینار، کارشناسی ارشد M.Sc
- (24) طراحی سیستم های برق خورشیدی، کارشناسی ارشد M.Sc
- (25) مباحث ویژه، کارشناسی ارشد M.Sc
- (26) مباحث ویژه در مهندسی قدرت 1، کارشناسی ارشد M.Sc
- (27) بررسی و شناخت انرژیهای نو، دکتری حرفه‌ای
- (28) رساله، دکتری حرفه‌ای

29) طراحی سیستم های برق خورشیدی، دکتری حرفه‌ای

30) مباحث ویژه در مهندسی قدرت دو، دکتری حرفه‌ای

31) مباحث ویژه در مهندسی قدرت یک، دکتری حرفه‌ای

32) منابع تغذیه و شارژرها، دکتری حرفه‌ای

مقالات چاپ شده در نشریات بین المللی

1) Hatami Hojat, Bannae Sharifian Mohammad Bagher, Feyzi Mohammad Reza, Sabahi Mehran, 2013/06/15, Analysis and Improved Design of Direct-Drive Coreless AFPM In-Wheel Machine for HEV Application, International Journal on Technical and Physical Problems of Engineering, Issue 15, Vol. 5, pp. 161-166

2) Farhadi Kangarlu Mohammad, Babaei Ebrahim, Sabahi Mehran, 2013/07/01, Cascaded cross-switched multilevel inverter in symmetric and asymmetric conditions, IET Power Electronics, 6, 1041-1050

3) Babaei Ebrahim, Dehqan Ali, Sabahi Mehran, 2013/10/01, A new topology for multilevel inverter considering its optimal structures, Electric Power Systems Research, 103, 145-156

4) Babaei Ebrahim, Farhadi Kangarlu Mohammad, Sabahi Mehran, 2014/01/01, Extended multilevel converters: an attempt to reduce the number of independent DC voltage sources in cascaded multilevel converters, IET Power Electronics, 7, 157-166

5) Shalchi Alishah Rasoul, Nazarpour Daryoosh, Hosseini Seyed Hossein, Sabahi Mehran, 2014/01/01, New hybrid structure for multilevel inverter with fewer number of components for high-voltage levels, IET Power Electronics, 7, 96-104

6) Saberi Hossein, Sabahi Mehran, Bannae Sharifian Mohammad Bagher, Feyzi Mohammad Reza, 2014/01/02, Improved sensorless direct torque control method using adaptive flux observer, IET Power Electronics, 7, 1675-1684

7) Babaei Ebrahim, Sheermohammadzadeh Gowgani Saeed, Sabahi Mehran, 2014/02/01, Improvement of Multilevel Inverters Topology Using Series and Parallel Connections of DC Voltage Sources, ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, 39, 1117-1127

8) Babaei Ebrahim, Farhadi Kangarlu Mohammad, Sabahi Mehran, 2014/03/01, Dynamic voltage restorer based on multilevel inverter with adjustable dc-link voltage, IET Power Electronics, 7, 576-590

9) Shalchi Alishah Rasoul, Nazarpour Daryoosh, Hosseini Seyed Hossein, Sabahi Mehran, 2014/03/01, Switched-diode structure for multilevel converter with reduced number of power electronic devices, IET Power Electronics, 7, 648-656

10) Babaei Ebrahim, Sheermohammadzadeh Gowgani Saeed, Sabahi Mehran, 2014/04/01, Modified Multilevel Inverters Using Series and Parallel Connection of DC Voltage Sources, ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, 39, 3077-3094

11) Babaei Ebrahim, Sabahi Mehran, 2014/04/01, Development of Pulse Width Modulation Technique for Controlling Inverters Under Balanced and Unbalanced Operations, ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, 39, 2941-2951

12) Shalchi Alishah rasoul, Nazarpour Daryoosh, Hosseini Seyed Hossein, Sabahi Mehran, 2014/06/11, Novel Single-Phase Multilevel Inverter Topology Based on Cascaded Connection of Basic Units, Asian Power Electronics Journal, Vol. 8, 29 - 24

13) Alipour Hasan, Bannae Sharifian Mohammad Bagher, Sabahi Mehran, 2014/06/28, A modified integral sliding mode control to lateral stabilisation of 4- wheel independent drive electric vehicles, Vehicle System Dynamics, Vol. 52, No. 12, pp. 1584-1606

14) Shalchi Alishah rasoul, Nazarpour Daryoosh, Hosseini Seyed Hossein, Sabahi Mehran, 2014/07/10, Design of New Single-phase Multilevel Voltage Source Inverter, International Journal of Power Electronics and Drive System (IJPEDS), Vol. 5, 45-55

- 15) Sedagati Farzad, Hosseini Seyed Hossein, Sabahi Mehran, Gharepetian Gevork, 2014/08/01, Analysis and implementation of a modular isolated zero-voltage switching bidirectional dc-dc converter, *IET Power Electronics*, 7, 2035-2049
- 16) Shalchi Alishah Rasoul, Nazarpour Daryoosh, Hosseini Seyed Hossein, Sabahi Mehran, 2014/12/01, Novel multilevel inverter topologies for medium and high-voltage applications with lower values of blocked voltage by switches, *IET Power Electronics*, 7, 3062-3071
- 17) Dargahi Saeedeh, Babaei Ebrahim, Dargahi Vahid, Eskandari Soheila, Sabahi Mehran, 2014/12/01, Flying-capacitor stacked multicell multilevel voltage source inverters: analysis and modelling, *IET Power Electronics*, 7, 2969-2987
- 18) Shalchi Alishah Rasoul, Nazarpour Daryoosh, Hosseini Seyed Hossein, Sabahi Mehran, 2015/01/01, Reduction of Power Electronic Elements in Multilevel Converters Using a New Cascade Structure, *IEEE Transactions on Industrial Electronics*, 62, 256-269
- 19) Varesi Kazem, Radan Ahmad, Hosseini Seyed Hossein, Sabahi Mehran, 2015/01/01, A Simple Technique for Optimal Selection of Degree of Hybridization (DOH) in Parallel Passenger Hybrid Cars, *Automatika*, 56, 33-41
- 20) Babaei Ebrahim, GOWGANI SHEERMOHAMMADZADEH, Sabahi Mehran, 2015/01/01, A new cascaded multilevel inverter with series and parallel connection ability of DC voltage sources, *Turkish Journal of Electrical Engineering and Computer Sciences*, 23, 85-102
- 21) Babaei Ebrahim, Sheermohammadzadeh Gowgani Saeed, Sabahi Mehran, 2015/02/09, A new cascaded multilevel inverter with series and parallel connection ability of dc voltage sources, *Turkish Journal of Electrical Engineering and Computer Sciences*, 23, 85-102
- 22) Valizadeh Majid, Feyzi Mohammad Reza, Babaei Ebrahim, Sabahi Mehran, 2015/02/17, Dynamic modeling of modular fuel cell for maximum power point tracking and torque ripple reduction in direct torque control of induction motor, *Turkish Journal of Electrical Engineering and Computer Sciences*, 23, 317-334
- 23) Sedagati Farzad, Hosseini Seyed Hossein, Sabahi Mehran, Gharehpetian Gevork, 2015/03/01, Extended configuration of dual active bridge DC-DC converter with reduced number of switches, *IET Power Electronics*, 8, 401-416
- 24) Dadashi Bahram, Roshdi Jamshid, Sabahi Mehran, 2015/08/31, Device control interface for extracting the maximum power from the PMSG wind generator, *Bulletin of the Georgian National Academy of Sciences*, 9, 422-428
- 25) Dadashi Bahram, Sabahi Mehran, 2015/08/31, The Design of a Multilevel Converter Connected to the Grid for Wind Turbines with Permanent Magnet Synchronous Generator, *Bulletin of the Georgian National Academy of Sciences*, 9, 441-450
- 26) Alipour Hasan, Sabahi Mehran, Bannae Sharifian Mohammad Bagher, 2015/09/15, Lateral stabilization of a four wheel independent drive electric vehicle on slippery roads, *MECHATRONICS*, Vol. 30, pp. 275-285
- 27) Ashrafgandomi Amin, Saeidabadi Saeid, Hosseini Seyed Hossein, Babaei Ebrahim, Sabahi Mehran, 2015/10/01, Transformer-based inverter with reduced number of switches for renewable energy, *IET Power Electronics*, 8, 1875-1884
- 28) Danyali Saeid, Mozaffari Niapourb Seyed Abdol Khalegh, Hosseini Seyed Hossein, Sabahi Mehran, Gharehpetian Gevork, 2015/10/01, New Single-Stage Single-Phase Three-Input DC-AC Boost Converter for Stand-Alone Hybrid PV/FC/UC Systems, *Electric Power Systems Research*, 127, 1-12
- 29) Khosroshahi Alireza, Abapour Mehdi, Sabahi Mehran, 2015/10/01, Reliability Evaluation of Conventional and Interleaved DC x2013 DC Boost Converters, *IEEE Transactions on Power Electronics*, 30, 5821-5828
- 30) Mohajeri Ataollah, Seyedi Heresh, Sabahi Mehran, 2015/12/01, Optimal setting of distance relays quadrilateral characteristic considering the uncertain effective parameters, *International Journal of Electrical Power and Energy Systems*, 73, 1051-1059
- 31) Sedagati Farzad, Hosseini Seyed Hossein, Sabahi Mehran, Gharepetian Govrek, 2016/01/01, Dynamic analysis of a modular isolated bidirectional dc-dc converter for high power applications, *Turkish Journal of Electrical Engineering and Computer Sciences*, 24, 2174-2193

- 32) Rahimi Tohid, Hosseini Seyed Hossein, Sabahi Mehran, Shalchi Alishah rasoul, 2016/01/01, EMI CONSIDERATION OF HIGH RELIABILITY DC-DC CONVERTER: IN AEROSPACE BASED ELECTRIC TRANSPORT SYSTEM CHARGER APPLICATION, Progress In Electromagnetics Research M, 46, 125-133
- 33) Zamiri Elyas, Vosoughi Naser, Hosseini Seyed Hossein, Barzegharkhoo Reza, Sabahi Mehran, 2016/06/01, A New Cascaded Switched-Capacitor Multilevel Inverter Based on Improved Series-Parallel Conversion With Less Number of Components, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 63, 3582-3594
- 34) Mohammadzadeh Shahir Farzad, Babaei Ebrahim, Sabahi Mehran, Laali Sara, 2016/06/01, A new DC-DC converter based on voltage-lift technique, International Transactions on Electrical Energy Systems, 26, 1260-1286
- 35) Shalchi Alishah Rasoul, Hosseini Seyed Hossein, Babaei Ebrahim, Sabahi Mehran, Zarrin Gharehkhoushan Amirreza, 2016/06/08, Optimal design of new cascade multilevel converter topology based on series connection of extended sub-multilevel units, IET Power Electronics, 9, 1341-1349
- 36) Baghbany Oskouei Aida, Banaei Mohamad Reza, Sabahi Mehran, 2016/06/30, Hybrid PV-wind system with quinary asymmetric inverter without increasing DC-link number, Ain Shams Engineering Journal, 7, 579-592
- 37) Mojallizadeh Mohammad Rasool, Badamchizadeh Mohammad Ali, Khanmohammadi Sohrab, Sabahi Mehran, 2016/07/01, Designing a new robust sliding mode controller for maximum power point tracking of photovoltaic cells, SOLAR ENERGY, 132, 538-546
- 38) Shalchi Alishah rasoul, Hosseini Seyed Hossein, Babaei Ebrahim, Sabahi Mehran, zare asghar, 2016/07/27, Extended high step-up structure for multilevel converter, IET Power Electronics, 9, 1894-1902
- 39) Shalchi Alishah rasoul, Hosseini Seyed Hossein, Babaei Ebrahim, Sabahi Mehran, 2016/11/01, A New General Multilevel Converter Topology Based on Cascaded Connection of Submultilevel Units With Reduced Switching Components, DC Sources, and Blocked Voltage by Switches, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 63, 7157-7164
- 40) Fallah Ardashir Jaber, Sabahi Mehran, Hosseini Seyed Hossein, Blaabjerg Frede, Babaei Ebrahim, Gharehpetian Gevork, 2016/12/26, A Single-Phase Transformerless Inverter with Charge Pump Circuit Concept for Grid-Tied PV Applications, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 64, 5403-5415
- 41) Feyzi Hamideh, Gholizadeh-Roshanagh Reza, Sabahi Mehran, Najafi-Ravadanegh Sajad, 2017/01/05, Incorporating DC-DC Boost Converters in Power Flow Studies, Journal of Power Technologies, 97, 28-34
- 42) Mojallizadeh Mohammad Rasool, Badamchizadeh Mohammad Ali, Khanmohammadi Sohrab, Sabahi Mehran, 2017/01/11, Chattering free full-order terminal sliding-mode control for maximum power point tracking of photovoltaic cells, IET Renewable Power Generation, 11, 85-91
- 43) Farhadi Masoud, Abapour Mehdi, Sabahi Mehran, 2017/01/16, Failure analysis and reliability evaluation of modulation techniques for neutral point clamped inverters—A usage model approach, ENGINEERING FAILURE ANALYSIS, 71, 90-104
- 44) Shalchi Alishah rasoul, Hosseini Seyed Hossein, Babaei Ebrahim, Sabahi Mehran, 2017/03/01, Optimal Design of New Cascaded Switch-Ladder Multilevel Inverter Structure, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 64, 2072-2080
- 45) Rahimi Tohid, Hosseini Seyed Hossein, Sabahi Mehran, Abapour Mehdi, Gharehpetian Gevork, 2017/03/10, Three-phase soft-switching-based interleaved boost converter with high reliability, IET Power Electronics, 10, 377-386
- 46) Nazari-heris Morteza, Nurmohamadi Hesam, Abapour Mehdi, Sabahi Mehran, 2017/03/24, Multilevel Nonsuperconducting Fault Current Limiter: Analysis and Practical Feasibility, IEEE TRANSACTIONS ON POWER ELECTRONICS, 32, 6059-6068
- 47) shokati asl elyas, Sabahi Mehran, 2017/05/01, Bidirectional Quasi-Cuk DC DC Converter with Reduced Voltage Stress on Capacitor and Capability of Changing the Output Polarity, Journal of Electrical Engineering & Technology, 12, 1108-1113

- 48) Mashinchi Maheri Hamed, Babaei Ebrahim, Sabahi Mehran, Hosseini Seyed Hossein, 2017/05/01, High Step Up DC–DC Converter With Minimum Output Voltage Ripple, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 64, 3568-3575
- 49) Nouri Tohid, Vosoughi Naser, Hosseini Seyed Hossein, Sabahi Mehran, 2017/05/01, A Novel Interleaved Nonisolated Ultrahigh-Step-Up DC–DC Converter With ZVS Performance, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 64, 3650-3661
- 50) Shalchi Alishah rasoul, Hosseini Seyed Hossein, Babaei Ebrahim, Sabahi Mehran, 2017/05/11, Optimization Assessment of a New Extended Multilevel Converter Topology, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 64, 4530-4538
- 51) Fallah Ardashir Jaber, Sabahi Mehran, Hosseini Seyed Hossein, Babaei Ebrahim, Gharehpetian Gevork, 2017/06/01, A grid connected transformerless inverter and its model predictive control strategy with leakage current elimination capability, Iranian Journal of Electrical and Electronic Engineering, 13, 161-169
- 52) Fallah Ardashir Jaber, Sabahi Mehran, Hosseini Seyed Hossein, Blaabjerg Frede, Babaei Ebrahim, Babamalek Gharehpetian Gevorg, 2017/07/01, A single-phase transformerless inverter with charge pump circuit concept for grid-tied PV applications, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 64, 5403-5415
- 53) Varesi Kazem, Hosseini Seyed Hossein, Sabahi Mehran, Babaei Ebrahim, Vosoughi Naser, 2017/07/28, Performance and design analysis of an improved non-isolated multiple input buck DC–DC converter, IET Power Electronics, 10, 1034-1045
- 54) shokati asl elyas, Babaei Ebrahim, Sabahi Mehran, 2017/07/28, High voltage gain half-bridge quasi-switched boost inverter with reduced voltage stress on capacitors, IET Power Electronics, 10, 1095-1108
- 55) Tarzamni Hadi, Babaei Ebrahim, Zarrin Gharehkish Amirreza, Sabahi Mehran, 2017/08/07, Interleaved full ZVZCS DC–DC boost converter: analysis, design, reliability evaluations and experimental results, IET Power Electronics, 10, 835-845
- 56) Babaei Ebrahim, ABBASNEJAD AMIN, Sabahi Mehran, Hosseini Seyed Hossein, 2017/09/01, Analysis and design of a soft-switching boost DC DC converter, IET Power Electronics, 10, 1353-1362
- 57) Shalchi Alishah rasoul, Hosseini Seyed Hossein, Babaei Ebrahim, Sabahi Mehran, Gharehpetian Gevork, 2017/09/01, New High Step-Up Multilevel Converter Topology With Self-Voltage Balancing Ability and Its Optimization Analysis, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 64, 7060-7070
- 58) Zamiri Elyas, Moradzadeh Majid, Barzegharkhoo Reza, Hamkari Sajad, Sabahi Mehran, 2017/09/14, Cascaded Multilevel Inverters Using Proposed Series Sub-multilevel Basic Blocks with Reduced Switching Devices, ELECTRIC POWER COMPONENTS AND SYSTEMS, 45, 1691-1704
- 59) Tarzamni Hadi, Babaei Ebrahim, Sabahi Mehran, 2017/10/01, Full soft switching high step-up DC-DC converter based on active resonant cell, IET Power Electronics, 10, 1729-1739
- 60) Khadem Haghhighian Saeideh, Tohidi Sajjad, Feyzi Mohammad Reza, Sabahi Mehran, 2017/10/06, Design and analysis of a novel SEPIC-based multi-input DC-DC converter , IET Power Electronics, 10, 1393-1402
- 61) Saadatizadeh Zahra, Chavoshpour Pedram, Sabahi Mehran, Tarafdar Hagh Mehرداد, Maalandish Mohammad, 2017/10/30, A New Non-isolated free ripple input current bidirectional DC-DC converter with capability of zero voltage switching, INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, 46, 519-542
- 62) Abdolkarim zadeh Mohamad, Nazari-heris Morteza, Abapour Mehdi, Sabahi Mehran, 2017/12/01, A Bridge-Type Fault Current Limiter for Energy Management of AC-DC Microgrids, IEEE TRANSACTIONS ON POWER ELECTRONICS, 32, 9043-9050
- 63) Babaei Ebrahim, SHADNAM MOHAMMAD, Sabahi Mehran, 2017/12/01, A New Structure of Quasi Z-Source-Based Cascaded Multilevel Inverter, JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, 12, 1-26

- 64) Nurmohamadi Hesam, Sabahi Mehran, Babaei Ebrahim, Abapour Mehdi, 2018/01/01, A New Structure of Fault Current Limiter Based on the System Impedance With Fast Eliminating Method and Simple Control Procedure, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 65, 261-269
- 65) Tofigh Azary Mehdi, Sabahi Mehran, Babaei Ebrahim, Abbasi Aghdam Meinagh Farhad, 2018/01/01, Modified Single-Phase Single-Stage Grid-Tied Flying Inductor Inverter With MPPT and Suppressed Leakage Current, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 65, 221-231
- 66) Nurmohamadi Hesam, Nazari-Heris Morteza, Sabahi Mehran, Abapour Mehdi, 2018/01/08, A Novel Structure for Bridge-Type Fault Current Limiter: Capacitor-Based Nonsuperconducting FCL, IEEE TRANSACTIONS ON POWER ELECTRONICS, 33, 3044-3051
- 67) Ardi Hossein, Ajami Ali, Sabahi Mehran, 2018/02/01, A Novel High Step-Up DC–DC Converter With Continuous Input Current Integrating Coupled Inductor for Renewable Energy Applications, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 65, 1306-1315
- 68) Varesi Kazem, Hosseini Seyed Hossein, Sabahi Mehran, Babaei Ebrahim, 2018/03/01, Performance analysis and calculation of critical inductance and output voltage ripple of a simple non-isolated multi-input bidirectional DC-DC converter, INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, 46, 543-564
- 69) Varesi Kazem, Hosseini Seyed Hossein, Sabahi Mehran, Babaei Ebrahim, 2018/03/01, A high-voltage gain nonisolated noncoupled inductor based multi-input DC-DC topology with reduced number of components for renewable energy systems, INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, 46, 505-518
- 70) Maalandish Mohammad, Hosseini Seyed Hossein, Sabahi Mehran, Asgharian Pouyan, 2018/03/05, Modified MPC based grid-connected five-level inverter for photovoltaic applications, COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING, 37, 971-985
- 71) Nazarloo Amin, Feyzi Mohammad Reza, Sabahi Mehran, Bannae Sharifian Mohammad Bagher, 2018/03/08, Improving Voltage Profile and Optimal Scheduling of Vehicle to Grid Energy based on a New Method, Advances in Electrical and Computer Engineering, Volume 18, Number 1, Volume 18, Number 1
- 72) shokati asl elyas, Sabahi Mehran, 2018/03/16, A Class of Quasi-Cuk DC-DC Converters: Steady-State Analysis and Design, ELECTRIC POWER COMPONENTS AND SYSTEMS, 46, 581-599
- 73) shokati asl elyas, Babaei Ebrahim, Sabahi Mehran, Hasan babayi Nozadian Mohsen, Cecati Carlo, 2018/04/01, New half-bridge and full-bridge topologies for switched-boost inverter with continuous input current, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 65, 3188-3197
- 74) Jalilzadeh Tohid, Tarafdar Hagh Mehrdad, Sabahi Mehran, 2018/04/21, Analytical study and simulation of a transformer-less photovoltaic grid-connected inverter with a delta-type tri-direction clamping cell for leakage current elimination, COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING, 37, 814-831
- 75) Varesi Kazem, Hosseini Seyed Hossein, Sabahi Mehran, Babaei Ebrahim, 2018/05/29, Modular non-isolated multi-input high step-up dc–dc converter with reduced normalised voltage stress and component count, IET Power Electronics, 11, 1092-1100
- 76) Shalchi Alishah rasoul, Hosseini Seyed Hossein, Babaei Ebrahim, Sabahi Mehran, 2018/07/01, A new single-phase multilevel converter topology with reduced power electronic devices, voltage rating on switches, and power losses, INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, 46, 1372-1391
- 77) farakhor Amir, Abapour Mehdi, Sabahi Mehran, 2018/08/28, Study on the derivation of the continuous input current high-voltage gain DC-DC converters, IET Power Electronics, 11, 1652-1660
- 78) Shalchi Alishah rasoul, Hosseini Seyed Hossein, Babaei Ebrahim, Sabahi Mehran, 2018/10/31, A Developed Two-Leg Ladder Multilevel Converter Structure, JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, 27, 1850183

- 79) Shalchi Alishah rasoul, Hosseini Seyed Hossein, Babaei Ebrahim, Sabahi Mehran, Fallah Ardashir Jaber, 2018/10/31, An Improved Symmetric H-Bridge Multilevel Converter Topology An Attempt to Reduce Power Losses, JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, 27, 1850187
- 80) Babaei Ebrahim, Chavoshpour Pedram, Saadatizadeh Zahra, Sabahi Mehran, 2018/11/27, New high step-up two-input-single-output converter with low-voltage stresses on switches and zero input currents ripple, IET Power Electronics, 11, 2241-2252
- 81) Haji-Esmaeili Mohammad Mehdi, Babaei Ebrahim, Sabahi Mehran, 2018/12/01, High Step-Up Quasi- Z Source DC–DC Converter, IEEE TRANSACTIONS ON POWER ELECTRONICS, 33, 10563-10571
- 82) Babaei Ebrahim, Mashinchi Maheri Hamed, Sabahi Mehran, Hosseini Seyed Hossein, 2018/12/01, Extendable Nonisolated High Gain DC–DC Converter Based on Active–Passive Inductor Cells, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 65, 9478-9487
- 83) Mousavinezhad Fardahar Sara, Sabahi Mehran, 2019/01/01, New Expandable Switched-Capacitor/Switched-Inductor High Voltage Conversion Ratio Bidirectional DC-DC Converter, IEEE TRANSACTIONS ON POWER ELECTRONICS, 2019, 1-1
- 84) Saadatizadeh Zahra, Chavoshpour Pedram, Sabahi Mehran, Babaei Ebrahim, 2019/01/01, A DC-DC Transformerless High Voltage Gain Converter with Low Voltage Stresses on Switches and Diodes, IEEE TRANSACTIONS ON POWER ELECTRONICS, early access, 1-1
- 85) Sabahi Mehran, Saadatizadeh Zahra, Chavoshpour Pedram, Babaei Ebrahim, 2019/01/18, Two new transformerless high step-down DC–DC converters, IET Power Electronics, Available online, Available online
- 86) Sahebjam Mehdi, Bannae Sharifian Mohammad Bagher, Feyzi Mohammad Reza, Sabahi Mehran, 2019/02/28, Novel Unified Control Method of Induction and Permanent Magnet Synchronous Motors, International Journal of Engineering, Transactions B: Applications, 32, 256-269
- 87) Nouri Tohid, Vosoughi Naser, Hosseini Seyed Hossein, Babaei Ebrahim, Sabahi Mehran, 2019/03/01, An interleaved high step-up converter with coupled inductor and built-in transformer voltage multiplier cell techniques, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 66, 1894-1905
- 88) Sadighmanesh Abdolreza, Sabahi Mehran, Zavvari Mahdi, 2019/03/01, Probabilistic dispatch in hybrid-microgrid system with considering energy arbitrage, Journal of Renewable and Sustainable Energy, 11, 025904
- 89) Mohammadi-Ivatloo Behnam, Mohhammadpou Shotorbani Amin, Wang Liwei, Marzband Mousa, Sabahi Mehran, 2019/03/01, Application of finite-time control Lyapunov function in low-power PMSG wind energy conversion systems for sensorless MPPT, INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, 106, 169-182
- 90) Nouri Tohid, Vosoughi Naser, Hosseini Seyed Hossein, Babaei Ebrahim, Sabahi Mehran, 2019/03/01, An Interleaved High Step-Up Converter With Coupled Inductor and Built-In Transformer Voltage Multiplier Cell Techniques, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 66, 1894-1905
- 91) Rahimi Tohid, Hosseini Seyed Hossein, Sabahi Mehran, Gharepetian Govrek, Abapour Mehdi, 2019/03/01, Reliability evaluation of a fault-tolerant three-phase interleaved DC-DC boost converter, TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, 41, 1278-1289
- 92) farakhor Amir, Abapour Mehdi, Sabahi Mehran, 2019/03/20, Design, analysis, and implementation of a multiport DC–DC converter for renewable energy applications, IET Power Electronics, 12, 465-475
- 93) Babaei Ebrahim, Jalilzadeh Tohid, Sabahi Mehran, Maalandish Mohammad, Shalchi Alishah rasoul, 2019/04/01, High step-up DC-DC converter with reduced voltage stress on devices, International Transactions on Electrical Energy Systems, 29, 1-24
- 94) Ardi Hossein, Ajami Ali, Sabahi Mehran, 2019/04/01, Analysis and implementation of a novel three input DC–DC boost converter for sustainable energy applications, International Transactions on Electrical Energy Systems, 29, e2801

- 95) Sabahi Mehran, Chavoshpour Pedram, Saadatizadeh Zahra, Babaei Ebrahim, 2019/04/01, A new switched-capacitor/switched-inductor based converter with high voltage gain and low voltage stress on switches, INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, 47, 591-611
- 96) Nazi Hamed, Babaei Ebrahim, Sabahi Mehran, 2019/05/01, Bidirectional active charge equaliser for series-connected cells, IET Power Electronics, 12, 1229-1240
- 97) Saadatizadeh Zahra, Chavoshpour Pedram, Babaei Ebrahim, Sabahi Mehran, 2019/06/01, A New Nonisolated Single-Input Three-Output High Voltage Gain Converter With Low Voltage Stresses on Switches and Diodes, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 66, 4308-4318
- 98) Varesi Kazem, Hosseini Seyed Hossein, Sabahi Mehran, Babaei Ebrahim, Saeidabadi Saeid, Vosoughi Naser, 2019/06/01, Design and Analysis of a Developed Multiport High Step-Up DC–DC Converter With Reduced Device Count and Normalized Peak Inverse Voltage on the Switches/Diodes, IEEE TRANSACTIONS ON POWER ELECTRONICS, 34, 5464-5475
- 99) Tofigh Azary Mehdi, Sabahi Mehran, Babaei Ebrahim, 2019/06/01, Single-phase common mode transformer-less soft-switching grid-connected inverter with eliminated leakage current, INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, 47, 838-861
- 100) shokati asl elyas, Babaei Ebrahim, Sabahi Mehran, 2019/06/19, Two different non-shoot-through operating modes for generating changeable general boost factor in switched Z-source inverters with modified modulation technique, IET Power Electronics, 12, 1686-1696
- 101) Mohseni Parham, Hosseini Seyed Hossein, Sabahi Mehran, Maalandish Mohammad, 2019/06/22, A multi-input single-output high step-up DC-DC converter with low voltage stress across semiconductors, International Transactions on Electrical Energy Systems, 66, 1-22
- 102) Mohseni Parham, Hosseini Seyed Hossein, Sabahi Mehran, Jalilzadeh Tohid, Maalandish Mohammad, 2019/07/01, A New High Step-Up Multi-Input Multi-Output DC–DC Converter, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 66, 5197-5208
- 103) Mohseni Parham, Hosseini Seyed Hossein, Maalandish Mohammad, Sabahi Mehran, 2019/08/07, Ultra-high step-up two-input DC–DC converter with lower switching losses, IET Power Electronics, 12, 2201-2213
- 104) Samadian Ataollah, Hosseini Seyed Hossein, Sabahi Mehran, Maalandish Mohammad, 2019/08/16, A New Coupled Inductor Non-isolated High step up Quasi Z-Source DC-DC Converter, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 1, 1-1
- 105) Azadeh Yalda, Babaei Ebrahim, tarzmani hadi, Sabahi Mehran, 2019/09/01, Single-inductor dual-output DC/DC converter with capability of feeding a constant power load in open-loop manner, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 66, 6906-6915
- 106) shokati asl elyas, Sabahi Mehran, Abapour Mehdi, Khosroshahi Alireza, khounjahan Hossein, 2019/09/01, Markov Chain Modeling for Reliability Analysis of Multi-Phase Buck Converters, JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, 1, 1-30
- 107) Vosoughi Naser, Hosseini Seyed Hossein, Sabahi Mehran, 2019/09/10, A New Transformer-less Five-level Grid-Tied Inverter for Photovoltaic Applications, IEEE TRANSACTIONS ON ENERGY CONVERSION, ., 1-1
- 108) Vosoughi Naser, Hosseini Seyed Hossein, Sabahi Mehran, 2019/10/18, Single-phase common-grounded transformer-less grid-tied inverter for PV application, IET Power Electronics, ., 1-1
- 109) Sabahi Mehran, Saadatizadeh Zahra, Chavoshpour Pedram, Babaei Ebrahim, 2019/11/01, A DC–DC Transformerless High Voltage Gain Converter With Low Voltage Stresses on Switches and Diodes, IEEE TRANSACTIONS ON POWER ELECTRONICS, 34, 10600-10609

- 110) Vosoughi Naser, Hosseini Seyed Hossein, Sabahi Mehran, 2019/11/15, A New Single Phase Transformerless Grid Connected Inverter with Boosting Ability and Common Ground Feature, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, ., 1-1
- 111) Sabahi Mehran, Tarzamni Hadi, Kolahian Pouya, 2020/01/01, High Step-Up DC-DC Converter with Efficient Inductive Utilization, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 68, 1-1
- 112) Eskandari Reyhaneh, Babaei Ebrahim, Sabahi Mehran, Ranjbarzadeh Ojaghkandi Sirous, 2020/01/07, Interleaved high step-up zero-voltage zero-current switching boost DC–DC converter, IET Power Electronics, 13, 96-103
- 113) Babaei Ebrahim, Mashinchi Maheri Hamed, Sabahi Mehran, 2020/01/16, Investigating of bidirectional dc–dc converter in different operational modes and designing of component considering the minimum OVR and filter size, IET Power Electronics, 13, 191-201
- 114) Babaei Ebrahim, Masoudina Fatemeh, Sabahi Mehran, Alipour Hasan, 2020/02/28, New basic unit and cascaded multilevel inverters with reduced power electronic devices, INTERNATIONAL JOURNAL OF ELECTRONICS, -, 1-18
- 115) shokati asl elyas, Babaei Ebrahim, Sabahi Mehran, 2020/03/18, Double-fed and double-switch active Z-source inverter with general variable high boost factor, IET Power Electronics, 13, 680-692
- 116) Abapour Mehdi, farakhor Amir, Sabahi Mehran, gholami farkoush Saeid, Ryle Oh Seung, Bong Rhee Sang, 2020/04/07, A Study on an Improved Three-Winding Coupled Inductor Based DC/DC Boost Converter with Continuous Input Current, Energies, 13, 1-18
- 117) Nemati Milad, Hosseini Seyed Hossein, Bannae Sharifian Mohammad Bagher, Sabahi Mehran, 2020/07/23, Common-ground non-isolated high-gain DC/DC converter for low power distributed generation photovoltaic systems, IET Power Electronics, 13, 2589-2597
- 118) Babaei Ebrahim, Ahmadzadeh Taher, Sabahi Mehran, Abedinzadeh Taher, 2020/10/01, An improved transformerless grid-connected PV system with related control strategy to reduce leakage current, extract maximum power point and control power, Iranian Journal of Electrical and Electronic Engineering, 16, 513-523
- 119) Nourmohamadi Hesam, Sabahi Mehran, Balsara Poras, Babaei Ebrahim, Hosseini Seyed Hossein, Fakhim-Babaei Amir, 2020/12/01, New Concept for Fault Current Limiter With Voltage Restoration Capability, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, 67, 10001-10010
- 120) Zahedi Neda, Hosseini Seyed Hossein, Nasiri Abalfazl, Sabahi Mehran, 2020/12/30, New soft-switched high gain three-port DC–DC converter with coupled inductors, IET Power Electronics, 13, 4562-4571
- 121) Hosseini Seyed Hossein, Zanzad Ghavidel Behnam, Maalandish Mohammad, Sabahi Mehran, Mohammadi-Ivatloo Behnam, 2021/01/01, Design and implementation of an improved power electronic system for feeding loads of smart homes in remote areas using renewable energy sources, IET Renewable Power Generation, 15, 1-16
- 122) Sahebjam Mehdi, Bannae Sharifian Mohammad Bagher, Feyzi Mohammad Reza, Sabahi Mehran, 2021/01/14, Novel methodology for direct speed control of a permanent magnet synchronous motor with sensorless operation, IET Electric Power Applications, online, 1–14
- 123) Sabahi Mehran, Tarzamni Hadi, Kolahian Pouya, 2021/02/01, Operation and design analysis of an interleaved high step-up DC–DC converter with improved harnessing of magnetic energy, INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, 49, 221-243
- 124) Sabahi Mehran, Tarzamni Hadi, Kolahian Pouya, 2021/02/15, Operation and design analysis of an interleaved high step-up DC-DC converter with improved harnessing of magnetic energy, INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, 49, 221-243
- 125) Safari Ashkan, Sabahi Mehran, 2021/03/10, Practical data connection between MATLAB and microcontrollers using virtual serial port and MicroPython Pyboard: A survey, IET Circuits Devices & Systems, 15, 485-492

126) khounjahan Hossein, Eskandari Reyhane, Rahimi Tohid, Shalchi Alishah Rasoul, Ding Lei, Bertilsson Kent, Sabahi Mehran, Blaabjerg Frede, 2021/03/30, A Limited Common-Mode Current Switched-Capacitor Multilevel Inverter Topology and Its Performance and Lifetime Evaluation in Grid-Connected Photovoltaic Applications, *Energies*, 4, 1-18

127) Babaei Ebrahim, Naderi Roya, Sabahi Mehran, Daghigh Ali, 2021/04/01, Optimization and implementation of a new topology for cascaded multilevel inverters with reduced number of semiconductor devices, *Iranian Journal of Science and Technology - Transactions of Electrical Engineering*, 45, 959-977

128) Babaei Ebrahim, Ahmadzadeh Taher, Sabahi Mehran, Abedinzadeh Taher, 2021/04/01, PWM Control Methods Based on Mathematical Equations for Z-Source Inverters, *international journal of industrial electronics, control and optimization*, 4, 167-179

129) Samadian Ataollah, Hosseini Seyed Hossein, Sabahi Mehran, 2021/04/08, A New Three Winding Coupled Inductor Non-Isolated Quasi Z-Source High Step Up DC-DC Converter, *IEEE TRANSACTIONS ON POWER ELECTRONICS*, 67, 1-1

130) Mohebalizadeh Gholamreza, Alipour Hasan, Mohammadian Leyla, Sabahi Mehran, 2021/04/30, An Improved Sliding Mode Controller for DC/DC Boost Converters Used in EV Battery Chargers with Robustness against the Input Voltage Variations, *international journal of industrial electronics, control and optimization*, 4, 257-266

131) Abbasi Soltani Behnam, Sabahi Mehran, Babaei Ebrahim, Pouladi jaber, 2021/06/01, Two-input boost converter for street-lighting applications, *COMPUTERS & ELECTRICAL ENGINEERING*, 92, 107126

132) Vosoughi Naser, Ghavipankeh Marangalu Milad, Salehi Sama, Mohseni Parham, Zarrin Gharehkoushan Amirreza, Hosseini Seyed Hossein, Sabahi Mehran, 2021/09/01, A New Transformer-Less Common Grounded Three-Level Grid-Tied Inverter With Voltage Boosting Capability, *IEEE TRANSACTIONS ON ENERGY CONVERSION*, 36, 1896-1909

133) Chavoshpour Heris Pedram, Saadatizadeh Zahra, Sabahi Mehran, Liang Xiaodong, 2021/09/30, High-voltage conversion ratio dual-input DC-DC converter operating in a wide duty cycle range and canceling input current ripple, *INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS*, 1, 22

134) Naderi Roya, Babaei Ebrahim, Sabahi Mehran, Daghigh Ali, 2021/09/30, Optimization of a new extended cascaded multilevel inverter topology to reduce DC voltage sources and power electronic components, *international journal of industrial electronics, control and optimization*, 4, 465-474

135) Tarzarni Hadi, Sabahi Mehran, Rahimpour Saeed, Lehtonen Matti, Dehghanian Payman, 2021/10/01, Operation and Design Consideration of an Ultrahigh Step-Up DC-DC Converter Featuring High Power Density, *IEEE Journal of Emerging and Selected Topics in Power Electronics*, 9, 6113-6123

136) Ghavidel Pedram, Farhadi Masoud, Dabbaghjamesh Morteza, Jolfaei Alireza, Sabahi Mehran, 2021/10/01, Fault Current Limiter Dynamic Voltage Restorer (FCL-DVR) With Reduced Number of Components, *IEEE Journal of Emerging and Selected Topics in Power Electronics*, 2, 526-534

137) Babaei Ebrahim, Mashinchi Maheri Hamed, Sabahi Mehran, 2022/05/01, A transformer-less DC-DC converter with high voltage conversion ratio adopting inverting voltage lift cell, *IET Circuits, Devices and Systems*, 16, 257-271

138) Hashemzadeh Seyed Majid, Hosseini Seyed Hossein, Babaei Ebrahim, Sabahi Mehran, 2022/05/01, Design and modelling of a new three winding coupled inductor based high step-up DC-DC converter for renewable energy applications, *IET Power Electronics*, -, -

139) Abbasi Soltani Behnam, Sabahi Mehran, Babaei Ebrahim, Pouladi Jaber, fallah ardashir jaber, 2022/05/01, Half-Bridge Single-Input Multi-Output DC-DC Converter with Dimming Capability for Lighting Applications, *Russian Electrical Engineering*, 93, 341-349

140) Babazadeh Yaser, Sabahi Mehran, Babaei Ebrahim, Sun Kai, 2022/06/01, A New Continuous Input Current Nonisolated Bidirectional Interleaved Buck-Boost DC-DC Converter, *International Transactions on Electrical Energy Systems*, 2022, 1-19

- 141) Sabahi Mehran, Abbasi Soltani Behnam, Babaei Ebrahim, Pouladi Jaber, 2022/06/02, An extendable half-bridge dimmable multi-channel LED driver for DC/DC grid lighting applications, journal of energy management and technology, 6, 83-90
- 142) Mohammadzadeh Shahir Farzad, Babaei Ebrahim, Sabahi Mehran, 2022/06/09, A new expandable non-isolated opposite polarity boost DC-DC converter with fewer switches, IET Power Electronics, -, -
- 143) Seyed Mahmoodieh Mir Esmaeel, Babaei Ebrahim, Sabahi Mehran, 2022/06/19, A modular isolated battery-integrated multiport step-up DC-DC converter for hybrid energy applications, IET Power Electronics, -, -
- 144) Babaei Ebrahim, Ahmadzadeh Taher, Sabahi Mehran, Abedinzadeh Taher, 2022/07/09, Two Quasi-Switched Enhanced-Boost Inverters with Flexible and Generalizable Finite Control Set-Model Predictive Control Scheme, ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, 47, 14859-14879
- 145) Alizadeh Darioush, Babaei Ebrahim, Sabahi Mehran, 2022/09/01, Analysis of the non-isolated step-up network based on impedance source converter, IET Power Electronics, 15, 1201-1216
- 146) Hashemzadeh Seyed Majid, Babaei Ebrahim, Hosseini Seyed Hossein, Sabahi Mehran, 2022/09/09, Design and Analysis of a New Coupled Inductor-Based Interleaved High Step-Up DC-DC Converter for Renewable Energy Applications, International Transactions on Electrical Energy Systems, 2022, 1-14
- 147) Mohebalizadeh Hadi, Babaei Ebrahim, Sabahi Mehran, Mohammadian Leila, 2022/09/13, An improved isolated DC-DC Buck converter with high step-down ratio, INTERNATIONAL JOURNAL OF ELECTRONICS, -, 1-27
- 148) Alizadeh Darioush, Babaei Ebrahim, Sabahi Mehran, 2022/09/16, High Step-Up Quadratic Impedance Source DC-DC Converter Based on Coupled Inductor, IEEE Journal of Emerging and Selected Topics in Power Electronics, -, 1-1
- 149) Babaei Ebrahim, Ahmadzadeh Taher, Sabahi Mehran, Abedinzadeh Taher, 2022/10/01, Design and control of an improved Z-source inverter for photovoltaic applications, INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, 50, 3342-3371
- 150) Davaranhagh Elshan, Babaei Ebrahim, Sabahi Mehran, Shahmohamadi Sima, 2022/11/01, Tapped inductor based switched boost inverter: Analysis and implementation, INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, 50, 706-726
- 151) Mohebalizadeh Hadi, Babaei Ebrahim, Sabahi Mehran, Mohammadian Leila, 2022/11/13, An improved isolated DC-DC buck converter with high step-down ratio, INTERNATIONAL JOURNAL OF ELECTRONICS, 110, 1911-1937
- 152) Mousavi Seyed Mohammad Javad, Babaei Ebrahim, Sabahi Mehran, Komurcugil Hasan, 2023/01/10, A Class of Bidirectional Single-Phase Z-Source AC-AC Converter with Continuous Input Current and Reduced Component Count, IEEE TRANSACTIONS ON POWER ELECTRONICS, -, 1-8
- 153) Maal Andish Mohammad, Hosseini Seyed Hossein, Sabahi Mehran, Rostami Naghi, Khooban Mohammad-Hassan, 2023/03/29, B-MIMO high step-up DC/DC converter with high capability to control inputs, IET Power Electronics, 1, 1
- 154) Hemmati Tala, Vosoughi Kurdkandi Naser, Husev Oleksandr, Babaei Ebrahim, Sabahi Mehran, Khoshkbar-Sadigh Arash, Vinnikov Dmitri, 2023/04/01, A New Flying Capacitor-Based Buck-Boost Converter for Dual-Purpose Applications, IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 4, 447-459
- 155) Tarzamni Hadi, Soltani Gohari Homayon, Sabahi Mehran, Kyyra Jorma, 2023/04/03, Non-Isolated High Step-Up DC-DC Converters: Comparative Review and Metrics Applicability, IEEE TRANSACTIONS ON POWER ELECTRONICS, 1, 1-41
- 156) Pashie Reza, Sabahi Mehran, Babaei Ebrahim, 2023/04/26, An interleaved high step-down coupled inductor based quadratic DC-DC converter, IET Power Electronics, -, -
- 157) Hashemzadeh Seyed Majid, Hosseini Seyed Hossein, Babaei Ebrahim, Sabahi Mehran, 2023/04/27, A soft switched high step-up DC-DC converter based on VMC and coupled inductor for photovoltaic energy applications, IET Renewable Power Generation, 17, 1583-1596

158) Hemmati Tala, Babaei Ebrahim, Sabahi Mehran, Khoshkbar-Sadigh Arash, 2023/07/22, A new boost type single source seven-level switched-capacitor based inverter with reduced current stress over the components, COMPUTERS & ELECTRICAL ENGINEERING, 101, 108160

159) Maalandish Mohammad, Hosseini Seyed Hossein, Sabahi Mehran, Rostami Naghi, Khooban Mohammad-Hassan, 2023/09/14, High step-up multi input-multi output DC-DC converter with high controllability for battery charger/EV applications, IET Power Electronics, 16, 1

160) Purali Fatemeh, Babaei Ebrahim, Alizadeh Darioush, Sabahi Mehran, 2023/10/31, An extendable step-up/down DC-DC converter based on switched capacitors, IET Power Electronics, 16, 2138-2149

161) Pashie Reza, Sabahi Mehran, Babaei Ebrahim, 2024/04/28, An interleaved high step-down coupled inductor based quadratic DC-DC converter, IET Power Electronics, 16, 1558-1572

162) Al-Tameemi Weam, Babaei Ebrahim, Sabahi Mehran, 2024/06/10, A dual source switched-capacitors multilevel inverter topology with extended voltage levels and voltage gain, Engineering Research Express, 6, 015028

163) علیپور حسن، صباحی مهران، بناءشرفیان محمدباقر، 1394/07/01، پایدار ساز جانبی خودرو الکتریکی چهار چرخ محرک با استفاده از یک کنترل کننده سه لایه و کنترل مد لغزشی، Iranian Journal of Electrical and Computer Engineering، 13، 119-127

164) علیپور حسن، صباحی مهران، بناءشرفیان محمدباقر، 1394/07/23، پایدارسازی جانبی خودروی الکتریکی چهارچرخ محرک با استفاده از یک کنترل-کننده سه لایه و کنترل مد لغزشی، Iranian Journal of Electrical and Computer Engineering، Vol. 13, No. 2، 119-127

مقالات چاپ شده در نشریات معتبر داخلی

1) Hatami Hojat, Bannae Sharifian Mohammad Bagher, Sabahi Mehran, 2013/12/15, A New Design Method for Low-Speed TORUS Type AFPM Machine for HEV Applications, International Journal of Research in Engineering and Technology, Volume: 02 Issue: 12, pp. 396-406

2) shokati asl elyas, SHADNAM MOHAMMAD, Sabahi Mehran, 2015/08/31, High performance Cuk converter considering non-linear inductors for photovoltaic system applications, journal of operation and automation in power engineering, 3, 158-166

3) Baghbany Oskouei Aida, Banaei Mohamad Reza, Sabahi Mehran, 2016/03/30, Extended SVM algorithms for multilevel trans-Z-source inverter, ain shams engineering journal, 7, 265-274

4) Baghbany Oskouei Aida, Banaei Mohamad Reza, Sabahi Mehran, 2016/12/02, Two Inputs Five-Level Quasi-Z-Source Inverter, journal of operation and automation in power engineering, 4, 132-142

5) Hosseini Seyed Hossein, Nurmohamadi Hesam, Bektas Senol, Babaei Ebrahim, Sabahi Mehran, 2017/12/01, A conventional dynamic voltage restorer with fault current limiting capability, Procedia Computer Science, -, 750-757

6) Nazarloo Amin, Feyzi Mohammad Reza, Sabahi Mehran, Bannae Sharifian Mohammad Bagher, 2018/06/30, Energy Management of Electric Vehicles Aggregator Using a New Multi-Objective Algorithm, journal of energy management and technology, Vol. 2, Issue 2, 20-30

7) Afshari Hadi, Bannae Sharifian Mohammad Bagher, Sabahi Mehran, Hosseini Seyed Hossein, 2018/08/15, Field Oriented Control of Dual Mechanical Port Machine for Hybrid Electric Vehicle, journal of operation and automation in power engineering, Vol. 6, No. 2, 147-156

8) Babaei Ebrahim, Masoudina Fatemeh, Sabahi Mehran, Alipour Hasan, 2020/03/01, New cascaded multilevel inverter with reduced power electronic components, 113-107, 16, مهندسی برق و الکترونیک ایران

9) Moradpour Reza, Tavakoli Abdul Reza, Sabahi Mehran, 2022/09/23, Analysis And Simulation Of A Sepic Based High Step-Up DC-DC Boost Converter With New Structure, Iranian Journal of Marine Sciences and Technologies, 26, 68-74

10) Babaei Ebrahim, Davaranhagh Elshan, Sabahi Mehran, Shahmohamadi Sima, 2023/12/01, Implementation of three PWM based control methods for switched boost inverter, Majlesi Journal of Electrical Engineering, 17, 1-22

11) ولیزاده مجید، فیضی محمدرضا، بابائی ابراهیم، صباحی مهران، 1393/06/01، اینورتر امپدانس دو خروجی برای درایو دو موتور القایی کنترل شده به روش DTC در خودرو هیبرید پیل سوختی، مهندسی برق، 44، 66-53

- 12) ولیزاده مجید، فیضی محمدرضا، بابائی ابراهیم، صباحی مهران، 1393/07/01، اینورتر امپدانسی دو خروجی برای درایو دو موتور القایی کنترل شده به روش DTC در خودرو پیل سوختی، مهندسی برق، 44، 61-53
- 13) بابائی ابراهیم، عباسنژاد امین، علیلو سمیه، صباحی مهران، 1394/07/09، تحلیل، طراحی و شبیه‌سازی یک مبدل dc-dc کاهنده با کلیدزنی تحت ولتاژ و جریان صفر، نشریه علمی-پژوهشی کیفیت و بهره‌وری صنعت برق ایران، 4، 62-49
- 14) شاهمحمدی سیما، حسینی سیدحسین، بابائی ابراهیم، صباحی مهران، فلاح جابر، 1395/01/03، آنالیز تحلیلی هارمونیک‌های خروجی اینورترهای چند سطحی در حالت کلیدزنی نامتقارن، مهندسی برق، 46، 213-209
- 15) شادنام محمد، بابائی ابراهیم، شوکتی اصل الیاس، صباحی مهران، 1395/07/06، ارائه یک ساختار جدید برای اینورتر شبه منبع امپدانس مبتنی بر سلفهای کلیدزنی شده و ترانسفورماتور، نشریه علمی-پژوهشی کیفیت و بهره‌وری صنعت برق ایران، 4، 73-63
- 16) صباحی مهران، اشرف گندمی امین، سعیدآبادی سعید، 1395/09/14، مبدل چند سطحی متصل به شبکه با ایمنی بالا با قابلیت اخذ بیشینه توان از سلول خورشیدی، مهندسی برق و الکترونیک ایران، 13، 104-95
- 17) فلاح جابر، صباحی مهران، حسینی سیدحسین، بابائی ابراهیم، قره پتیان گئورگ، 1396/02/01، ساختار بهبودیافته اینورتر بدون ترانسفورماتور متصل به شبکه با استفاده از روش کنترل تناسبی-تشدید، مهندسی برق و مهندسی کامپیوتر ایران، 15، 42-31
- 18) صباحی مهران، سعیدآبادی سعید، حسینی سیدحسین، اشرف گندمی امین، 1396/06/01، اینورتر جدید چندسطحی سه‌فاز هیبریدی بهبودیافته، مهندسی برق، 47، 562-551
- 19) حسینی سیدحسین، سعیدآبادی سعید، اشرف گندمی امین، صباحی مهران، 1396/07/01، یک اینورتر چندسطحی سه‌فاز بهبودیافته با منابع ولتاژ برابر، مهندسی برق، 47، 1097-1083
- 20) وارثی کاظم، حسینی سیدحسین، صباحی مهران، بابائی ابراهیم، 1396/10/01، ارائه رابطه‌ای جامع برای محاسبه اندوکتانس بحرانی در یک مبدل DC-DC کاهنده با تعداد ورودی‌های دلخواه، مهندسی برق و مهندسی کامپیوتر ایران، 15، 276-269
- 21) وارثی کاظم، حسینی سیدحسین، صباحی مهران، بابائی ابراهیم، 1396/11/01، ارائه رابطه جامع برای محاسبه اندوکتانس بحرانی در یک مبدل dc-dc کاهنده با تعداد ورودی‌های دلخواه، مهندسی برق و مهندسی کامپیوتر ایران، 15، 276-269
- 22) رحیمی توحید، حسینی سیدحسین، صباحی مهران، عباپور مهدی، قره پتیان گئورگ، 1397/01/08، تحلیل قابلیت اطمینان آرایش‌های مازاد متداول برای کلیدهای قدرت و ارائه ساختار مازاد جدید، مهندسی برق و الکترونیک ایران، Vol 15، 89-102
- 23) محجل کاظمی فرهاد، بنائی محمدرضا، صباحی مهران، 1397/07/01، ارائه ساختار جدید اینورتر منبع جریان چند سطحی متصل به شبکه، سامانه‌های غیرخطی در مهندسی برق، 5، 91-74
- 24) خان عبدالصاحب، بنائشریفیان محمدباقر، صباحی مهران، 1401/07/10، کنترل پایداری خودروی الکتریکی با دو موتور محرک مستقل در محورهای جلو و عقب در جاده‌های لغزنده، هوش محاسباتی در مهندسی برق، 1، 17-1
- 25) محجل کاظمی فرهاد، بنایی محمدرضا، صباحی مهران، 1402/01/15، طراحی و ساخت اینورتر منبع ریان چندسطحی مازولار بر مبنای مازول‌های دوکلیدی، مهندسی و مدیریت انرژی، 13، 39-30

همایش‌های بین‌المللی

- 1) Sabahi Mehran, Bannae Sharifian Mohammad Bagher, Valinia Reza, Babaei Ebrahim, 9th International Conference on Technical and Physical Problems of Electrical Engineering, announcer, complete article, DETAILED TIPS FOR AUTOMATIVE DUAL VOLTAGE DC-DC CONVERTER DESIGN, 2013/09/09, 2013/09/11
- 2) Gorzin Alireza, Sabahi Mehran, Bannae Sharifian Mohammad Bagher, 9th International Conference on Technical and Physical Problems of Electrical Engineering, announcer, complete article, Controller Design of Double Fed Induction Generator for Optimal Dynamic Performance of Microgrid Islanding Condition, 2013/09/09, 2013/09/11
- 3) Sabahi Mehran, Bannae Sharifian Mohammad Bagher, Valinia Reza, Babaei Ebrahim, 9th International Conference on Technical and Physical Problems of Electrical Engineering, announcer, complete article, Detailed Tips for Automotive Dual Voltage DC-DC Converter Design, 2013/09/09, 2013/09/11
- 4) Zackeri Ali, Sabahi Mehran, Mahmoodi Motlagh Abbas, Mohammadzadeh Shahir Farzad, Babaei Ebrahim, 9th International Conference on Technical and Physical Problems of Electrical Engineering, announcer, complete article, DESIGN OF ROBUST POWER SYSTEM STABILIZER BASED-ON OPTIMAL CONTROL THEORY, 2013/09/09, 2013/09/11
- 5) Saeidabadi Saeid, Hosseini Seyed Hossein, Varesi Kazem, Sabahi Mehran, The 6th International Power Electronics Drive Systems and Technologies, announcer, complete article, A Modified Grid-Connected Current Source Inverter for Photovoltaic Application, 2015/02/03, 2015/02/04

- 6) Hamzeh Aghdam Farid, Abdolkarim zadeh Mohamad, Sabahi Mehran, The 4th International Congress on Electric Industry Automation, announcer, complete article, PV-based interleaved battery charger as power supply in automation systems, 2016/02/23, 2016/02/24
- 7) Maal Andish Mohammad, Jalilzadeh Tohid, Shalchi Alishah rasoul, Sabahi Mehran, The International Conference on New Researches in Engineering Sciences, announcer, complete article, Leakage Current Elimination of Grid-Connected PV Panels Using an Improved Non-Isolated dc-ac Heric Converter, 2016/03/14, 2016/03/15
- 8) Zarrin Gharehkoushan Amirreza, Sabahi Mehran, Shalchi Alishah rasoul, The International Conference on New Researches in Engineering Science, announcer, complete article, Hybrid High-Voltage gain Inverter for Grid-Connected Photovoltaic System Employing Model Predictive Controller, 2016/03/14, 2016/03/16
- 9) Azarian Hamed, Sabahi Mehran, 2016 1st International Conference on New Research Achievements in Electrical and Computer Engineering (ICNRAECE), announcer, complete article, Analysis of Environment Temperature Variation Effect on Sub-Synchronous Resonance with Wind Farms, 2016/05/13, 2016/05/14
- 10) Tarafdar Hagh Mehrdad, Sabahi Mehran, 2016 IEEE International Conference on Power System Technology (POWERCON), announcer, complete article, A Single Phase Unified Power Quality (UPQC), 2016/09/28, 2016/10/01
- 11) Fallah Ardashir Jaber, Siwakoti Yam, Sabahi Mehran, Hosseini Seyed Hossein, Blaabjerg Frede, IECON 2016 - 42nd Annual Conference of the IEEE Industrial Electronics Society, announcer, complete article, S4 Grid-Connected Single-Phase Transformerless Inverter for PV Application, 2016/10/23, 2016/10/26
- 12) Azadeh Yalda, Hosseini Seyed Hossein, Sabahi Mehran, 31st Power System Conference, announcer, complete article, Power Injection into Distribution Network from Partially Shaded PV Panel Connected to Unidirectional Three-level LLC resonant Converter, 2016/10/24, 2016/10/26
- 13) Varesi Kazem, Hosseini Seyed Hossein, Sabahi Mehran, Babaei Ebrahim, Vosoughi Naser, Eighth Annual Power Electronics, Drive Systems and Technologies Conference (PEDSTC), announcer, complete article, An improved non-isolated multiple-input buck DC-DC converter, 2017/02/14, 2017/02/16
- 14) Saeidabadi Saeid, Ashrafgandomi Amin, Sabahi Mehran, 8th Power Electronics, Drive Systems & Technologies Conference, poster presentation, complete article, Two New Transformer-Based Isolated Seven-level Inverters, 2017/02/14, 2017/02/16
- 15) Ardi Hossein, Ajami Ali, Sabahi Mehran, 8th Power Electronics, Drive Systems & Technologies Conference (PEDSTC 2017), announcer, complete article, A Sepic Based High Step-Up DC-DC Converter integrating coupled inductor for renewable energy applications, 2017/02/14, 2017/02/16
- 16) Ashrafgandomi Amin, Saeidabadi Saeid, Sabahi Mehran, 8th Power Electronics, Drive Systems & Technologies Conference, announcer, complete article, Maximum power point tracking control method in high gain transformer-based inverters for photovoltaic application, 2017/02/14, 2017/02/16
- 17) Varesi Kazem, Ashrafgandomi Amin, Hosseini Seyed Hossein, Sabahi Mehran, Babaei Ebrahim, Eighth Annual Power Electronics, Drive Systems and Technologies Conference (PEDSTC), announcer, complete article, An improved structure for multi-input high step-up DC-DC converters, 2017/02/14, 2017/02/16
- 18) Nurmohamadi Hesam, Nazari-Heris Morteza, Sabahi Mehran, Abapour Mehdi, Babaei Ebrahim, 25th Iranian Conference on Electrical Engineering (ICEE), announcer, complete article, New structure of non super conducting fault current limiter for wide ranges of currents based on PWM switching Strategy, 2017/05/02, 2017/05/04
- 19) Ahmadpour Mohammad, Sabahi Mehran, Hasanzadeh Hakimeh, Babaei Ebrahim, 14th International Conference on Electrical Engineering, Electronics, Computer, Telecommunication and Information Technology, announcer, complete article, Speed control of induction motor under unbalanced network using vector control, 2017/06/27, 2017/06/30
- 20) Mohebbifar Minoos, Rostami Naghi, Babaei Ebrahim, Sabahi Mehran, 2017-14th International Conference on Electrical Engineering, Electronics, Computer, Telecommunications and Information Technology (ECTI-CON), announcer, complete article, Dual-Output Step-Down Soft Switching Current-Fed Full-Bridge DC-DC Converter, 2017/06/27, 2017/06/30

- 21) Ahmadzadeh Taher, Sabahi Mehran, Babaei Ebrahim, 14th International Conference on Electrical Engineering, Electronics, Computer, Telecommunication and Information Technology, announcer, complete article, Modified PWM control method for neutral point clamped multilevel inverters, 2017/06/27, 2017/06/30
- 22) Babaei Ebrahim, Mohammadzadeh Shahir Farzad, Dabbagh Tabrizi Selda, Sabahi Mehran, 14th International Conference on Electrical Engineering, Electronics, Computer, Telecommunication and Information Technology, announcer, complete article, Compensation of voltage sags and swells using photovoltaic source based DVR, 2017/06/27, 2017/06/30
- 23) shokati asl elyas, Babaei Ebrahim, Ranjbarizad Vida, Sabahi Mehran, 10th International Conference on Electrical and Electronics Engineering (ELECO), announcer, complete article, A new topology for half-bridge Z-source inverter based on gamma structure, 2017/11/30, 2017/12/02
- 24) Varesi Kazem, Hosseini Seyed Hossein, Sabahi Mehran, Babaei Ebrahim, 9th Annual Power Electronics, Drive Systems and Technologies Conference (PEDSTC), announcer, complete article, A multi-port high step-up dc-dc converter with reduced normalized voltage stress on switches and diodes, 2018/02/13, 2018/02/15
- 25) Azadeh Yalda, Babaei Ebrahim, Sabahi Mehran, Yousefzadeh Fard Amin, IEEE 12th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), announcer, complete article, Soft commutated soft-two-switch DC-DC converter, 2018/04/10, 2018/04/12
- 26) Aalami Mohammad Amin, Babaei Ebrahim, Sabahi Mehran, IEEE 12th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), announcer, complete article, Design of a new combined cascaded multilevel inverter based on developed H-bridge with reduced number of IGBTs and DC voltage sources, 2018/04/10, 2018/04/12
- 27) Babazadeh Yaser, Babaei Ebrahim, Sabahi Mehran, 10th Annual Power Electronics, Drive Systems and Technologies Conference (PEDSTC), announcer, complete article, A new non-isolated buck-boost converter with high voltage gain and positive output voltage for renewable energy applications, 2019/02/12, 2019/02/14
- 28) Sabahi Mehran, Babaei Ebrahim, Ahmadzadeh Taher, Kolahian Pouya, Tarzamani Hadi, 10th Annual Power Electronics, Drive Systems and Technologies Conference (PEDSTC), announcer, complete article, An extended quasi-switched Z-source inverter, 2019/02/12, 2019/02/14
- 29) Mousavi Seyed Mohammad Javad, Babaei Ebrahim, Sabahi Mehran, 11th Annual Power Electronics, Drive Systems and Technologies Conference (PEDSTC), announcer, complete article, Modified single-phase Z-source converter based on Gamma structure, 2020/02/04, 2020/02/06
- 30) Mashinchi Maheri Hamed, shokati asl elyas, Babaei Ebrahim, Sabahi Mehran, Vinnikov Dmitri, 47th Annual Conference of IEEE Industrial Electronics Society (IEEE IECON), announcer, complete article, Half-bridge trans-Z-source inverter with high boost factor, 2021/10/13, 2021/10/16
- 31) Hemmati Tala, Ghavipanjeh Marangalu Milad, Vosoughi Naser, Husev Oleksandr, Babaei Ebrahim, Vinnikov Dmitri, Sabahi Mehran, 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTU CON), announcer, complete article, A new single-phase single-stage switched-capacitor based seven-level inverter for grid-tied photovoltaic applications, 2021/11/15, 2021/11/17
- 32) Hemmati Tala, Husev Oleksandr, Babaei Ebrahim, Sabahi Mehran, Vinnikov Dmitri, Khoshkbar-Sadigh Arash, 2020 IEEE International Conference on Energy (ENERGYCON 2022), announcer, complete article, A new single source five-level common ground switched capacitor based inverter, 2022/05/09, 2022/05/12
- 33) Sabahi Mehran, 2020 IEEE 14th Dallas Circuits and Systems Conference (DCAS), A Novel Modulation Method to Reduce Leakage Current in Transformerless Z-source PV Inverters

34) خدادادی عظیم، بابائی ابراهیم، صباحی مهران، بیست و هشتمین کنفرانس بین المللی مهندسی برق، سخنران، مقاله کامل، ارائه ساختار جدید برای مبدل DC/DC ایزوله دوجته مبتنی بر مبدل‌های چوک و نیم‌ریل، 1392/08/11، 1392/08/13

35) نادری یحیی، صباحی مهران، نادری رویا، دومین کنفرانس بین المللی فناوری و مدیریت انرژی، سخنران، مقاله کامل، طراحی سیستم فتوولتائیک برای یک ساختمان مسکونی، 1392/03/14، 1394/09/25

36) جلیل زاده توحید، مآل اندیش محمد، صباحی مهران، عباپور مهدی، پنجمین کنفرانس بین المللی رویکردهای نوین در نگهداشت انرژی، سخنران، مقاله کامل، طراحی و تحلیل یک اینورتر چند سطحی بهبود یافته بدون ترانسفورماتور با قابلیت حذف جریان ناشی برای کاربردهای پانل خورشیدی، 1394/10/28، 1394/10/29

37) نورمحمدی حسام، نظری هریس مرتضی، صباحی مهران، عباپور مهدی، چهارمین کنگره ملی اتوماسیون صنعت برق، سخنران، مقاله کامل، ارائه ساختار نوین محدود کننده ی جریان خطا با قابلیت استفاده در سیستم های اتوماسیون با روش کنترلی جدید مبتنی بر امپدانس شبکه، 1394/12/04، 1394/12/05

همایش‌های داخلی

1) Tashackori Aziz, Hosseini Seyed Hossein, Sabahi Mehran, 23rd Iranian Conference on Electrical Engineering, announcer, complete article, Power quality improvement using a power electronic transformer based DVR, 2015/05/10, 2015/05/14

2) Moazen Maryam, Bannae Sharifian Mohammad Bagher, Sabahi Mehran, 24th Iranian Conference on Electrical Engineering (ICEE), announcer, complete article, Electric Differential for an Electric Vehicle with 4WD-2WS Ability, 2016/05/10, 2016/05/12

3) علیپور حسن، بناءشریفیان محمدباقر، صباحی مهران، همایش ملی پژوهش های کاربردی در مهندسی برق، مکانیک و مکترونیک، سخنران، مقاله کامل، تشخیص خطا و کنترل پایداری جانبی خودروی الکتریکی با محرک مستقل برای چهارچرخ، 1393/11/30، 1393/11/30

4) سامی بهنام، ضرغامی مهدی، یگانی رضا، صباحی مهران، دومین کنگره علوم و مهندسی آب و فاضلاب ایران، سخنران، مقاله کامل، طراحی سیستم آب شیرین کن خورشیدی سبز به روش اسمز معکوس-فتوولتائیک، 1397/08/22، 1397/08/24