

# Quan Li

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

1,147  
citations

394421

19  
h-index

434195

31  
g-index

67  
all docs

67  
docs citations

67  
times ranked

892  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A critical review on wireless charging for electric vehicles. Renewable and Sustainable Energy Reviews, 2019, 104, 209-234.   | 16.4 | 178       |
| 2  | Micro/nanoscale magnetic robots for biomedical applications. Materials Today Bio, 2020, 8, 100085.  | 5.5  | 79        |
| 3  | Dipole antennas on photonic band-gap crystals? Experiment and simulation. Microwave and Optical Technology Letters, 1997, 15, 153-158.  | 1.4  | 56        |
| 4  | Driving Range of Electric Vehicles Charged by Wireless Power Transfer. IEEE Transactions on Vehicular Technology, 2020, 69, 5968-5982.  | 6.3  | 56        |
| 5  | Development of a 220 kV/300 MVA superconductive fault current limiter. Superconductor Science and Technology, 2012, 25, 105011.   | 3.5  | 53        |
| 6  | The dynamic resistance of YBCO coated conductor wire: effect of DC current magnitude and applied field orientation. Superconductor Science and Technology, 2018, 31, 035002.  | 3.5  | 46        |
| 7  | Modelling of electromagnetic loss in HTS coated conductors over a wide frequency band. Superconductor Science and Technology, 2020, 33, 025004.   | 3.5  | 40        |
| 8  | Dependence of Dynamic Loss on Critical Current and $n$ -Value of HTS Coated Conductors. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-7.  | 1.7  | 38        |
| 9  | AC loss characteristics of superconducting power transmission cables: gap effect and $J_c$ distribution effect. Superconductor Science and Technology, 2010, 23, 115003.  | 3.5  | 27        |
| 10 | Numerical Modeling of Dynamic Loss in HTS-Coated Conductors Under Perpendicular Magnetic Fields. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.   | 1.7  | 26        |
| 11 | Dynamic Resistance Measurement of a Four-Tape YBCO Stack in a Perpendicular Magnetic Field. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.  | 1.7  | 26        |
| 12 | A full-range formulation for dynamic loss of high-temperature superconductor coated conductors. Superconductor Science and Technology, 2020, 33, 05LT01.  | 3.5  | 25        |
| 13 | Total loss measurement and simulation in a REBCO coated conductor carrying DC current in perpendicular AC magnetic field at various temperatures. Superconductor Science and Technology, 2021, 34, 065009.  | 3.5  | 25        |
| 14 | Optimized Design of Coils and Iron Cores for a Saturated Iron Core Superconducting Fault Current Limiter. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.  | 1.7  | 21        |
| 15 | Loss characteristics of HTS coated conductors in field windings of electric aircraft propulsion motors. Superconductor Science and Technology, 2020, 33, 064006.  | 3.5  | 21        |
| 16 | Thermally actuated magnetization flux pump in single-grain YBCO bulk. Superconductor Science and Technology, 2009, 22, 105011.  | 3.5  | 20        |
| 17 | Lateral critical current density distributions degraded near edges of coated conductors through cutting processes and their influence on ac loss characteristics of power transmission cables. Physica C: Superconductivity and Its Applications, 2011, 471, 990-994. | 1.2  | 20        |
| 18 | Loss characteristics of superconducting pancake, solenoid and spiral coils for wireless power transfer. Superconductor Science and Technology, 2020, 33, 074008.  | 3.5  | 20        |

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|----|---|-----|-----------|
| 19 | Superconductors and Lenz's law. Superconductor Science and Technology, 2020, 33, 055004.  | 3.5 | 20        |
| 20 | Ac loss reduction of multilayer superconducting power transmission cables by using narrow coated conductors. Superconductor Science and Technology, 2011, 24, 065013.   | 3.5 | 19        |
| 21 | Dynamic Resistance Measurement in a Four-Tape YBCO Stack With Various Applied Field Orientation. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-7.   | 1.7 | 17        |
| 22 | Potential for Torque Density Maximization of HTS Induction/Synchronous Motor by Use of Superconducting Reluctance Torque. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-4.                      | 1.7 | 16        |
| 23 | Current limiting tests of a prototype 160 kV/1 kA resistive DC superconducting fault current limiter. Superconductor Science and Technology, 2021, 34, 014002.  | 3.5 | 16        |
| 24 | Effects of Lateral-Tailoring of Coated Conductor for Ac Loss Reduction of Superconducting Power Transmission Cables. IEEE Transactions on Applied Superconductivity, 2011, 21, 943-946.                       | 1.7 | 15        |
| 25 | The Central Canyon depositional patterns and filling process in east of Qiongdongnan Basin, northern South China Sea. Geological Journal, 2018, 53, 3064-3081.  | 1.3 | 15        |
| 26 | A New Type of DC Superconducting Fault Current Limiter. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.  | 1.7 | 15        |
| 27 | Influences of Coil Radius on Effective Transfer Distance in WPT System. IEEE Access, 2019, 7, 125960-125968.  | 4.2 | 15        |
| 28 | ac losses in circular disks of thin YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> films in perpendicular magnetic fields. Journal of Applied Physics, 2003, 94, 502-506.                                    | 2.5 | 14        |
| 29 | Effects of Unevenly Distributed Critical Currents and Damaged Coated Conductors to AC Losses of Superconducting Power Transmission Cables. IEEE Transactions on Applied Superconductivity, 2011, 21, 953-956. | 1.7 | 14        |
| 30 | Smart Nanotechnologies to Target Tumor with Deep Penetration Depth for Efficient Cancer Treatment and Imaging. Advanced Therapeutics, 2019, 2, 1900093.   | 3.2 | 14        |
| 31 | Dynamic loss of HTS field windings in rotating electric machines. Superconductor Science and Technology, 2020, 33, 045014.  | 3.5 | 14        |
| 32 | Transport AC Loss Measurements in Single- and Two-Layer Parallel Coated Conductor Arrays With Low Turn Numbers. IEEE Transactions on Applied Superconductivity, 2012, 22, 8200306-8200306.                    | 1.7 | 13        |
| 33 | Bi-directional Lattice Recurrent Neural Networks for Confidence Estimation. , 2019, , .   |     | 13        |
| 34 | Thickness dependence of ac losses in circular disks of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> films in perpendicular magnetic fields. Journal of Applied Physics, 2004, 95, 208-213.                 | 2.5 | 12        |
| 35 | Further study of a novel inductive SFCL for multiterminal HVDC systems. Superconductor Science and Technology, 2021, 34, 114002.  | 3.5 | 11        |
| 36 | AC loss reduction of outer-diameter-fixed superconducting power transmission cables using narrow coated conductors. Physica C: Superconductivity and Its Applications, 2013, 484, 217-222.                    | 1.2 | 10        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Novel model of stator design to reduce the mass of superconducting generators. Superconductor Science and Technology, 2018, 31, 055009.   | 3.5 | 10        |
| 38 | A Novel Method of Wireless Power Transfer Identification and Resonance Decoupling Based on Frequency Hopping Communication. IEEE Access, 2019, 7, 161201-161210.                                    | 4.2 | 9         |
| 39 | Development of Multiscale Model in Large-Scale HTS Coils With Improved Coupling. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-7.   | 1.7 | 7         |
| 40 | Modular and stackable power generators for efficient renewable power generation. IET Renewable Power Generation, 2019, 13, 2774-2782.   | 3.1 | 7         |
| 41 | Uncertainty Quantification of Geo-Magnetically Induced Currents in UHV Power Grid. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 258-265.   | 2.2 | 7         |
| 42 | A STUDY OF 2D ISING FERROMAGNETS WITH DIPOLE INTERACTIONS. Modern Physics Letters B, 2001, 15, 895-903.   | 1.9 | 5         |
| 43 | Magnetization of Bulk Superconductors Using Thermally Actuated Magnetic Waves. IEEE Transactions on Applied Superconductivity, 2010, 20, 2243-2247.   | 1.7 | 5         |
| 44 | Dependence of AC Loss on Structural Compactness of Superconducting Power Cables With Narrow Coated Conductors. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.                       | 1.7 | 5         |
| 45 | Mass reduction of superconducting power generators for large wind turbines. Journal of Engineering, 2019, 2019, 3972-3975.  | 1.1 | 5         |
| 46 | Feasibility study of high temperature superconducting cables for distribution power grids in metropolises. Superconductor Science and Technology, 2020, 33, 014002.                                 | 3.5 | 5         |
| 47 | Numerical analysis of thermally actuated magnets for magnetization of superconductors. Journal of Physics: Conference Series, 2010, 234, 032035.  | 0.4 | 4         |
| 48 | Thermally Actuated Magnetization Method in High Temperature Superconductor Bulks. IEEE Transactions on Applied Superconductivity, 2010, 20, 1823-1826.  | 1.7 | 4         |
| 49 | Magnetic Field Design of Combined-function Magnets Wound with Coated Conductors. Physics Procedia, 2013, 45, 237-240.   | 1.2 | 4         |
| 50 | High Temperature Superconducting Halbach Array Topology for Air-cored Electrical Machines. Journal of Physics: Conference Series, 2020, 1559, 012140.   | 0.4 | 4         |
| 51 | AC Loss Reduction Through Flux Diverters for Superconducting Wireless Charging Coils at High Frequencies. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-10.                           | 1.7 | 4         |
| 52 | A modular and cost-effective high-temperature superconducting generator for large direct-drive wind turbines. IET Renewable Power Generation, 2021, 15, 2022-2032.                                  | 3.1 | 4         |
| 53 | Fault protection of multiterminal HVDC networks: Impact of inductance. International Journal of Electrical Power and Energy Systems, 2022, 141, 108113.   | 5.5 | 4         |
| 54 | Effect of Multilayer Configuration on AC Losses of Superconducting Power Transmission Cables Consisting of Narrow Coated Conductors. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-4. | 1.7 | 3         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Assessing the mechanical stresses of dynamic cables for floating offshore wind applications. Journal of Physics: Conference Series, 2018, 1102, 012016.  | 0.4 | 3         |
| 56 | Optimized Magnetic Design of Superconducting Magnets for Heavy Ion Rotating Gantries. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-8.   | 1.7 | 3         |
| 57 | T - formulation based numerical modelling of dynamic loss with a DC background field. Journal of Physics: Conference Series, 2020, 1559, 012145.   | 0.4 | 3         |
| 58 | A Comparative study of transport current loss in HTS coils for superconducting wireless power transfer. Journal of Physics: Conference Series, 2020, 1559, 012096.                                     | 0.4 | 2         |
| 59 | Estimation Characteristics of Input Voltage Waveform of Single-Phase PFC Converter for Both Sinusoidal and Rectangular Input Voltages. IEEJ Transactions on Industry Applications, 2006, 126, 489-496. | 0.2 | 0         |
| 60 | Dynamic Analysis of a New Type of Asymmetrical Parallel Mechanism Based on Lagrange Method. IOP Conference Series: Materials Science and Engineering, 2018, 428, 012074.                               | 0.6 | 0         |
| 61 | Experimental Study on Arcing Process of Vacuum Arc under Wan-Type Contacts. , 2019, , .  |     | 0         |
| 62 | Corrections to "Optimized Magnetic Design of Superconducting Magnets for Heavy Ion Rotating Gantries" [Mar 20 Art. no. 4400108]. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-1.        | 1.7 | 0         |
| 63 | Magnetic Field Leakage of HTS Medical Accelerators. Journal of Physics: Conference Series, 2020, 1559, 012122.   | 0.4 | 0         |
| 64 | Loss analysis of superconducting wireless charging for electric vehicles. Journal of Physics: Conference Series, 2020, 1559, 012095.   | 0.4 | 0         |
| 65 | Yoke Design for Heavy Ion Rotating Gantry HTS Combined Function Magnet. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-13.  | 1.7 | 0         |
| 66 | Effect of Cr <sub>2</sub> AlC particle on the dispersion strengthening of CLF-1 steel. Fusion Engineering and Design, 2022, 177, 113076.   | 1.9 | 0         |