

Louis Zani

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The DEMO magnet system – Status and future challenges. Fusion Engineering and Design, 2022, 174, 112971. | 1.0 | 37 |
| 2 | JT-60SA TF coil quench model and Analysis: Joule energy estimation with SuperMagnet and STREAM. Cryogenics, 2022, 124, 103454. | 0.9 | 2 |
| 3 | Analytical Modeling of Coupling Losses in CICC, Extensive Study of the COLISEUM Model. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5. | 1.1 | 2 |
| 4 | AC Losses in JT-60SA TF Magnet During Commissioning: Experimental Analysis and Modeling. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5. | 1.1 | 1 |
| 5 | Updates on CEA Design and Experimental Activities on EU DEMO TF System. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5. | 1.1 | 2 |
| 6 | Thermal Hydraulic Analysis of JT-60SA TFCO2 Complementary Quench Tests in CTF. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5. | 1.1 | 1 |
| 7 | Development of a multi-physic platform OLYMPE for magnet fusion design: Progresses update and applications. Cryogenics, 2022, 125, 103479. | 0.9 | 4 |
| 8 | Updates on Magnet Design For EU-DEMO Reactor: Optimization Studies on TF and CS Systems. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-6. | 1.1 | 5 |
| 9 | Modeling of AC Losses and Simulation of Their Impact on JT-60SA TF Magnets During Commissioning. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5. | 1.1 | 7 |
| 10 | Analytical Coupling Losses Modelling With COLISEUM: Generalized Approach Upgrade to All Stages. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5. | 1.1 | 0 |
| 11 | Extensive Analyses of Superconducting Cables 3D Geometry With Advanced Tomographic Examinations. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5. | 1.1 | 4 |
| 12 | Thermal-hydraulic analysis of the DEMO CS coil designed by CEA. Fusion Engineering and Design, 2021, 171, 112557. | 1.0 | 3 |
| 13 | An analytical model for coupling losses in large conductors for magnetic fusion. Cryogenics, 2021, 120, 103374. | 0.9 | 9 |
| 14 | Optimization of the overall Toroidal Field Coil cryomagnetic system at the pre-conceptual design phase of the European DEMO fusion reactor. Fusion Engineering and Design, 2021, 172, 112883. | 1.0 | 3 |
| 15 | Sensitivity analysis of fusion power plant designs using the SYCOMORE system code. Nuclear Fusion, 2020, 60, 016015. | 1.6 | 4 |
| 16 | OLYMPE, a multi-physic platform for fusion magnet design: Development status and first applications. Cryogenics, 2020, 108, 103086. | 0.9 | 9 |
| 17 | Void Fraction Influence on CICC Coupling Losses: Analysis of Experimental Results With MPAS Model. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5. | 1.1 | 12 |
| 18 | CEA Broad Studies on EU DEMO CS and PF Magnet Systems. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-6. | 1.1 | 8 |

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|----|--|-----|-----------|
| 19 | Advance in the conceptual design of the European DEMO magnet system. Superconductor Science and Technology, 2020, 33, 044013. | 1.8 | 38 |
| 20 | Analytical Modelling of CICC's Coupling Losses: Broad Investigation of Two-Stage Model. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5. | 1.1 | 7 |
| 21 | Progresses at CEA on EU demo reactor cryomagnetic system design activities and associated R&D. Nuclear Fusion, 2019, 59, 086033. | 1.6 | 8 |
| 22 | Optimization of the cooling capacity of the cryo-magnetic system for EU DEMO at the pre-conceptual design phase. Fusion Engineering and Design, 2019, 146, 2504-2508. | 1.0 | 7 |
| 23 | Parametric Optimization of the CEA TF Magnet Design of the EU DEMO Updated Configuration. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5. | 1.1 | 12 |
| 24 | Mechanical analysis of the European DEMO central solenoid pre-load structure and coils. Fusion Engineering and Design, 2019, 146, 168-172. | 1.0 | 12 |
| 25 | Status of CEA Magnet Design Tools and Applications to EU DEMO PF and CS Magnets. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5. | 1.1 | 5 |
| 26 | Development of a New Generic Analytical Modeling of AC Coupling Losses in Cable-in-Conduit Conductors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5. | 1.1 | 2 |
| 27 | Parametric Analyses of JT-60SA TF Coils in the Cold Test Facility With SuperMagnet Code. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5. | 1.1 | 11 |
| 28 | DEMO design using the SYCOMORE system code: Influence of technological constraints on the reactor performances. Fusion Engineering and Design, 2018, 136, 1572-1576. | 1.0 | 11 |
| 29 | Development and Applications of Magnet Module for SYCOMORE CEA System Code. IEEE Transactions on Plasma Science, 2018, 46, 3109-3114. | 0.6 | 5 |
| 30 | Progress in the design of the superconducting magnets for the EU DEMO. Fusion Engineering and Design, 2018, 136, 1597-1604. | 1.0 | 67 |
| 31 | EU-DEMO TF and CS Magnet Systems Design and Analyses Performed at CEA. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5. | 1.1 | 26 |
| 32 | Towards a multi-physic platform for fusion magnet design – Application to DEMO TF coil. Fusion Engineering and Design, 2017, 124, 104-109. | 1.0 | 16 |
| 33 | Mechanical pre-dimensioning and pre-optimization of the tokamaks' toroidal coils featuring the winding pack layout. Fusion Engineering and Design, 2017, 124, 77-81. | 1.0 | 8 |
| 34 | Thermo-hydraulic analyses associated with a CEA design proposal for a DEMO TF conductor. Cryogenics, 2016, 80, 317-324. | 0.9 | 24 |
| 35 | Coupling between a multi-physics workflow engine and an optimization framework. Computer Physics Communications, 2016, 200, 76-86. | 3.0 | 6 |
| 36 | Influence of Strands Trajectories of JT-60SA TF Conductors on their Hydraulic and Electromagnetic Properties. IEEE Transactions on Applied Superconductivity, 2016, , 1-1. | 1.1 | 1 |

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|----|---|-----|-----------|
| 37 | Tools Used at CEA for Designing the DEMO Toroidal Field Coils Winding Pack. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5. | 1.1 | 16 |
| 38 | Overview of Progress on the EU DEMO Reactor Magnet System Design. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5. | 1.1 | 46 |
| 39 | JT-60SA TF Coils: Experimental Check of Hydraulic Operating Conditions. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5. | 1.1 | 18 |
| 40 | JT-60SA superconducting magnet system. Nuclear Fusion, 2015, 55, 086001. | 1.6 | 30 |
| 41 | DEMO reactor design using the new modular system code SYCOMORE. Nuclear Fusion, 2015, 55, 073011. | 1.6 | 45 |
| 42 | Accurate 3D modeling of Cable in Conduit Conductor type superconductors by X-ray microtomography. Fusion Engineering and Design, 2015, 98-99, 1176-1180. | 1.0 | 6 |
| 43 | Conceptual integrated approach for the magnet system of a tokamak reactor. Fusion Engineering and Design, 2014, 89, 2606-2620. | 1.0 | 19 |
| 44 | Experimental and Analytical Approaches on JT-60SA TF Strand and TF Conductor Quality Control During Qualification and Production Manufacture Stages. IEEE Transactions on Applied Superconductivity, 2013, 23, 4200504-4200504. | 1.1 | 9 |
| 45 | Characterization of superconducting wires and cables by X-ray micro-tomography. Fusion Engineering and Design, 2013, 88, 1613-1618. | 1.0 | 16 |
| 46 | Starting EU Production of Strand and Conductor for JT-60SA Toroidal Field Coils. IEEE Transactions on Applied Superconductivity, 2012, 22, 4801804-4801804. | 1.1 | 18 |
| 47 | A macroscopic model for coupling current losses in cables made of multistages of superconducting strands and its experimental validation. Cryogenics, 2010, 50, 443-449. | 0.9 | 31 |
| 48 | Tests and Analyses of Two TF Conductor Prototypes for JT-60SA. IEEE Transactions on Applied Superconductivity, 2010, 20, 451-454. | 1.1 | 13 |