

Andrzej Rusin

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

582
citations

687363

13
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610901

24
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37
all docs

37
docs citations

37
times ranked

599
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Comprehensive analysis of hydrogen compression and pipeline transportation from thermodynamics and safety aspects. <i>Energy</i> , 2017, 141, 2508-2518. | 8.8 | 95 |
| 2 | Analysis of compression and transport of the methane/hydrogen mixture in existing natural gas pipelines. <i>International Journal of Pressure Vessels and Piping</i> , 2018, 166, 24-34. | 2.6 | 77 |
| 3 | Comprehensive analysis of pipeline transportation systems for CO ₂ sequestration. Thermodynamics and safety problems. <i>Energy Conversion and Management</i> , 2013, 76, 665-673. | 9.2 | 63 |
| 4 | Using the artificial neural network to control the steam turbine heating process. <i>Applied Thermal Engineering</i> , 2016, 108, 204-210. | 6.0 | 32 |
| 5 | Shape and operation optimisation of a supercritical steam turbine rotor. <i>Energy Conversion and Management</i> , 2013, 74, 417-425. | 9.2 | 27 |
| 6 | Reducing the risk level for pipelines transporting carbon dioxide and hydrogen by means of optimal safety valves spacing. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 33, 77-87. | 3.3 | 27 |
| 7 | The influence of the start-ups and cyclic loads of steam turbines conducted according to European standards on the component's life. <i>Energy</i> , 2001, 26, 1083-1099. | 8.8 | 25 |
| 8 | Analysis of relationships between residual magnetic field and residual stress. <i>Meccanica</i> , 2013, 48, 45-55. | 2.0 | 24 |
| 9 | Shrink connection modelling of the steam turbine rotor. <i>Engineering Failure Analysis</i> , 2013, 34, 217-227. | 4.0 | 23 |
| 10 | Trends of changes in the power generation system structure and their impact on the system reliability. <i>Energy</i> , 2015, 92, 128-134. | 8.8 | 21 |
| 11 | Practical Algorithms for Online Thermal Stress Calculations and Heating Process Control. <i>Journal of Thermal Stresses</i> , 2014, 37, 1286-1301. | 2.0 | 20 |
| 12 | Potential hazards posed by biogas plants. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110225. | 16.4 | 17 |
| 13 | Improving the power unit operation flexibility by the turbine start-up optimization. <i>Energy</i> , 2020, 198, 117303. | 8.8 | 16 |
| 14 | Analysis of hazards related to syngas production and transport. <i>Renewable Energy</i> , 2020, 146, 2535-2555. | 8.9 | 14 |
| 15 | The Application of Molten Salt Energy Storage to Advance the Transition from Coal to Green Energy Power Systems. <i>Energies</i> , 2020, 13, 2222. | 3.1 | 12 |
| 16 | Maintenance planning of power plant elements based on avoided risk value. <i>Energy</i> , 2017, 134, 672-680. | 8.8 | 10 |
| 17 | The impact of the control method of cyclic operation on the power unit efficiency and life. <i>Energy</i> , 2018, 150, 565-574. | 8.8 | 10 |
| 18 | Improving the availability and lengthening the life of power unit elements through the use of risk-based maintenance planning. <i>Energy</i> , 2019, 180, 28-35. | 8.8 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Assessment of operational risk of steam turbine valves. International Journal of Pressure Vessels and Piping, 2004, 81, 373-379. | 2.6 | 7 |
| 20 | The Analysis of Pipeline Transportation Process for CO2 Captured From Reference Coal-Fired 900 MW Power Plant to Sequestration Region. Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa, 2014, 35, 497-514. | 0.7 | 7 |
| 21 | Analysis of the Effects of Failure of a Gas Pipeline Caused by a Mechanical Damage. Energies, 2021, 14, 7686. | 3.1 | 7 |
| 22 | Assessment of the rise in the turbine operation risk due to increased cyclicity of the power unit operation. Energy, 2016, 96, 394-403. | 8.8 | 6 |
| 23 | Hazards associated with syngas storage. E3S Web of Conferences, 2019, 137, 01022. | 0.5 | 5 |
| 24 | Risk-Based Planning of Diagnostic Testing of Turbines Operating with Increased Flexibility. Energies, 2020, 13, 3464. | 3.1 | 5 |
| 25 | On-Line Control of Stresses in the Power Unit Pressure Elements Taking Account of Variable Heat Transfer Conditions. Energies, 2021, 14, 4708. | 3.1 | 5 |
| 26 | Modelling the effects of failure of pipelines transporting hydrogen. Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa, 2011, 32, 117-134. | 0.7 | 4 |
| 27 | Analysis of Thermal and Stress States in Transient Operation of a Turbine Co-operating with Twinboiler. Heat Transfer Engineering, 2018, 39, 1251-1259. | 1.9 | 3 |
| 28 | An Analysis of Hazards Caused by Emissions of Amines from Carbon Dioxide Capture Installations. Polish Journal of Environmental Studies, 2016, 25, 909-916. | 1.2 | 3 |
| 29 | Selecting optimal conditions for the turbine warm and hot start-up. Energy, 2021, 214, 118836. | 8.8 | 2 |
| 30 | Transient Temperature and Thermal Stresses in Turbine Components. , 2014, , 6198-6215. | | 2 |
| 31 | Steam turbine maintenance planning based on forecasting of life consumption processes and risk analysis. Eksploatacja I Niezawodnosc, 2022, 24, 395-406. | 2.0 | 2 |
| 32 | Analysis and management of operating risk created by turbine operation under flexible regimes. E3S Web of Conferences, 2019, 137, 01026. | 0.5 | 1 |
| 33 | Computer-Aided Risk Analysis of Power Units. Journal of KONBiN, 2010, 14-15, 155-164. | 0.4 | 0 |
| 34 | Selection of the rotor heat-up rate for supercritical parameter turbines. Archives of Thermodynamics, 2013, 34, 89-104. | 1.0 | 0 |
| 35 | Selecting optimal conditions for the turbine warm and hot start-up. E3S Web of Conferences, 2019, 137, 01025. | 0.5 | 0 |
| 36 | Analysis of Risk Related to Carbon Dioxide Pipeline Transport. SpringerBriefs in Applied Sciences and Technology, 2015, , 95-134. | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Risk-Based Operation and Maintenance Planning of Steam Turbine with the Long In-Service Time. Energies, 2022, 15, 5019. | 3.1 | 0 |