Janusz Badur

List of Publications by Year in descending order

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567281 580821 41 662 15 25 citations h-index g-index papers 41 41 41 369 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Finite rotations in the description of continuum deformation. International Journal of Engineering Science, 1983, 21, 1097-1115.	5.0	79
2	On low-grade waste heat utilization from a supercritical steam power plant using an ORC-bottoming cycle coupled with two sources of heat. Energy Conversion and Management, 2017, 146, 158-173.	9.2	51
3	Zero-dimensional robust model of an SOFC with internal reforming for hybrid energy cycles. Energy, 2018, 158, 128-138.	8.8	50
4	Energy and exergy analysis of hydrogen production combined with electric energy generation in a nuclear cogeneration cycle. Energy Conversion and Management, 2019, 198, 111805.	9.2	47
5	On energy, exergy, and environmental aspects of a combined gas-steam cycle for heat and power generation undergoing a process of retrofitting by steam injection. Energy Conversion and Management, 2019, 192, 374-384.	9.2	38
6	An approach for estimation of water wall degradation within pulverized-coal boilers. Energy, 2015, 92, 142-152.	8.8	34
7	Thermodynamic Analysis of Negative CO2 Emission Power Plant Using Aspen Plus, Aspen Hysys, and Ebsilon Software. Energies, 2021, 14, 6304.	3.1	28
8	Comprehensive thermodynamic analysis of the CAES system coupled with the underground thermal energy storage taking into account global, central and local level of energy conversion. Renewable Energy, 2021, 169, 379-403.	8.9	26
9	Exergy Losses in the Szewalski Binary Vapor Cycle. Entropy, 2015, 17, 7242-7265.	2.2	24
10	An energetic analysis of a gas turbine with regenerative heating using turbine extraction at intermediate pressure - Brayton cycle advanced according to Szewalski's idea. Energy, 2019, 185, 763-786.	8.8	23
11	Thermal utilization of meat-and-bone meal using the rotary kiln pyrolyzer and the fluidized bed boiler $\hat{a}\in$ The performance of pilot-scale installation. Renewable Energy, 2021, 164, 1447-1456.	8.9	23
12	Thermal failure of a second rotor stage in heavy duty gas turbine. Engineering Failure Analysis, 2020, 115, 104672.	4.0	22
13	Different design aspects of an Organic Rankine Cycle turbine for electricity production using a geothermal binary power plant. Energy Conversion and Management, 2021, 246, 114672.	9.2	22
14	A theoretical, numerical and experimental verification of the Reynolds thermal transpiration law. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 64-80.	2.8	20
15	Mathematical modelling of gasification process of sewage sludge in reactor of negative CO2 emission power plant. Energy, 2022, 244, 122601.	8.8	18
16	On the mass and momentum transport in the Navier–Stokes slip layer. Microfluidics and Nanofluidics, 2011, 11, 439.	2.2	16
17	On the angular velocity slip in nano-flows. Microfluidics and Nanofluidics, 2015, 19, 191-198.	2.2	16
18	Comparative study of a bottoming SRC and ORC for Joule–Brayton cycle cooling modular HTR exergy losses, fluid-flow machinery main dimensions, and partial loads. Energy, 2020, 206, 118072.	8.8	15

#	Article	IF	Citations
19	An alternative two-equation turbulent heat diffusivity closure. International Journal of Heat and Mass Transfer, 2005, 48, 2013-2022.	4.8	14
20	Accelerated start-up of the steam turbine by means of controlled cooling steam injection. Energy, 2019, 173, 1242-1255.	8.8	14
21	Influence of strength differential effect on material effort of a turbine guide vane based on thermoelastoplastic analysis. Journal of Thermal Stresses, 2017, 40, 1368-1385.	2.0	12
22	Heat exchange enhancement of jet impingement cooling with the novel humped-cone heat sink. Case Studies in Thermal Engineering, 2021, 28, 101445.	5.7	12
23	On a comparison of Huber-Mises-Hencky with Burzynski-Pecherski equivalent stresses for glass body during nonstationary thermal load. AIP Conference Proceedings, 2017, , .	0.4	11
24	Assessment of the Effective Variants Leading to Higher Efficiency for the Geothermal Doublet, Using Numerical Analysisâ€'Case Study from Poland (Szczecin Trough). Energies, 2020, 13, 2174.	3.1	10
25	Validation plastic model with hardening of St12t. AIP Conference Proceedings, 2019, , .	0.4	7
26	Exergy analysis of the Szewalski cycle with a waste heat recovery system. Archives of Thermodynamics, 2015, 36, 25-48.	1.0	5
27	Compact High Efficiency and Zero-Emission Gas-Fired Power Plant with Oxy-Combustion and Carbon Capture. Energies, 2022, 15, 2590.	3.1	5
28	Thermodynamic analysis of the Compressed Air Energy Storage system coupled with the Underground Thermal Energy Storage. E3S Web of Conferences, 2019, 137, 01023.	0.5	4
29	Neoclassical Navier–Stokes Equations Considering the Gyftopoulos–Beretta Exposition of Thermodynamics. Energies, 2020, 13, 1656.	3.1	4
30	Extremal thermal loading of a bifurcation pipe. AIP Conference Proceedings, 2019, , .	0.4	3
31	The thermal effort during marine steam turbine flooding with water. AIP Conference Proceedings, 2019, , .	0.4	2
32	On the Burzyński stress effort during thermomechanical loading of a turbine blade. AIP Conference Proceedings, 2020, , .	0.4	2
33	Pure gauge theory of the cosserat surface. International Journal of Engineering Science, 1993, 31, 41-59.	5.0	1
34	Issues to improve the safety of 18K370 steam turbine operation. E3S Web of Conferences, 2017, 13, 04003.	0.5	1
35	Practical Methods for Online Calculation of Thermoelastic Stresses in Steam Turbine Components. , 2018, , .		1
36	Revalorisation of the Szewalski's concept of the law of varying the last-stage blade retraction in a gas-steam turbine. E3S Web of Conferences, 2021, 323, 00034.	0.5	1

#	Article	IF	CITATIONS
37	A study of jet impingement cooling enhancement by concave and convex heat sink shape modifications. E3S Web of Conferences, 2021, 323, 00010.	0.5	1
38	A Yang-Mills type of equation for the compatibility conditions. International Journal of Engineering Science, 1989, 27, 1439-1442.	5.0	0
39	On a comparison of Huber-Mises-Hencky with Zawadzki equivalent stress for a steam turbine blade during nonstationary thermal load. AIP Conference Proceedings, 2020, , .	0.4	O
40	The Staged Combustion of Meat-and-Bone Meal: The Characteristics of Conversion Sub-processes and Large-Scale Process Outputs., 2021,, 415-454.		0
41	Duhem and Natanson: Two Mathematical Approaches to Thermodynamics. Energies, 2022, 15, 1881.	3.1	0