MiloÅ¡ S NedeljkoviÄ

List of Publications by Year
in descending order

29 papers	410 citations	840776 11 h-index	794594 19 g-index
29 all docs	29 docs citations	29 times ranked	209 citing authors

#	Article	IF	Citations
1	Experimental study on the influence of geometrical parameters on the cavitation erosion characteristics of high speed submerged jets. Experimental Thermal and Fluid Science, 2017, 80, 281-292.	2.7	69
2	The relation between the high speed submerged cavitating jet behaviour and the cavitation erosion process. International Journal of Multiphase Flow, 2016, 83, 27-38.	3.4	60
3	Frequency in Shedding/Discharging Cavitation Clouds Determined by Visualization of a Submerged Cavitating Jet. Journal of Fluids Engineering, Transactions of the ASME, 2008, 130, .	1.5	50
4	Mechanics of submerged jet cavitating action: material properties, exposure time and temperature effects on erosion. Archive of Applied Mechanics, 2008, 78, 329-341.	2.2	35
5	The ability of using the cavitation phenomenon as a tool to modify the surface characteristics in micro- and in nano-level. Tribology International, 2016, 101, 88-97.	5.9	31
6	Controlled modification of the surface morphology and roughness of stainless steel 316 by a high speed submerged cavitating water jet. Applied Surface Science, 2018, 458, 293-304.	6.1	22
7	Surface characteristics and cavitation damage progress in ductile materials. Engineering Failure Analysis, 2019, 106, 104157.	4.0	20
8	Cavitating flow characteristics, cavity potential and kinetic energy, void fraction and geometrical parameters â€“ Analytical and theoretical study validated by experimental investigations. International Journal of Heat and Mass Transfer, 2018, 117, 873-886.	4.8	19
9	Plastic deformation and modification of surface characteristics in nano- and micro-levels and enhancement of electric field of FCC materials using cavitation phenomenon. Mechanics of Materials, 2016, 92, 289-298.	3.2	17
10	Influences of hydrodynamic conditions, nozzle geometry on appearance of high submerged cavitating jets. Thermal Science, 2013, 17, 1139-1149.	1.1	15
11	Nano- and Micro-Scale Surface Modification of FCC Metal Using High Submerged Cavitating Water Jet. Plasmonics, 2013, 8, 843-849.	3.4	12
12	Novel methods for axial fan impeller geometry analysis and experimental investigations of the generated swirl turbulent flow. Thermal Science, 2010, 14, 125-139.	1.1	11
13	Dynamic behaviour of cavitation clouds: visualization and statistical analysis. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	10
14	Remote labs and problem oriented engineering education. , 2017, , .		8
15	Appearance of high submerged cavitating jet: The cavitation phenomenon and sono luminescence. Thermal Science, 2013, 17, 1151-1161.	1.1	6
16	Engineering education lab setup ready for remote operation â€” pump system hydraulic performance. , 2018, , .		6
17	Virtual instruments and experiments in engineering education lab setup with hydraulic pump. , 2018, , .		4
18	An Experimental Investigation of Cavitating Jet Dynamic Power and Cavitation Intensity. , 2010, , .		3

#	Article	IF	Citations
19	An approach to design of the cyber-physical systems for engineering-education. , 2018, , .		3
20	Automatic Edge Detection Applied to Cavitating Flow Analysis: Cavitation Cloud Dynamics and Properties Measured through Detected Image Regions. Flow, Turbulence and Combustion, 2022, 108, 865-893.	2.6	2
21	Reduction of CO2 emission as a benefit of energy efficiency improvement: Kindergartens in the City of Nis - case study. Thermal Science, 2018, 22, 651-662.	1.1	2
22	Study and analysis of the cavitating and non-cavitating jets - Part two: Parameters controlling the jet action and a new formula for cavitation number calculation. Thermal Science, 2020, 24, 407-419.	1.1	2
23	Study and analysis of the cavitating and non-cavitating jets - Part one: Parameters controlling force, power and the jet behavior. Thermal Science, 2020, 24, 393-406.	1.1	2
24	Fluid boundaries shaping using the method of kinetic balance. Thermal Science, 2006, 10, 153-162.	1.1	1
25	Lectures in Rotodynamic Pumpsâ€"From Design and Simulations to Testing. Advances in Intelligent Systems and Computing, 2019, , 394-406.	0.6	0
26	Coherent vortex structure investigation behind the axial fan in pipe. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900228.	0.2	0
27	Design and Use of Digitally Controlled Electric Motors for Purpose of Engineering Education. Advances in Intelligent Systems and Computing, 2020, , 833-844.	0.6	0
28	P-47 Effects of submerged jet cavitating action-influences of material properties, exposure time, temperature and nitrated surface on erosion process. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 2007.6, _P-47-1_-_P-47-6_.	0.0	0
29	Problem-Oriented Learning Based on Use of Shared Experimental Results. Advances in Intelligent Systems and Computing, 2019, , 47-58.	0.6	0