Milos B Djukic

List of Publications by Year in descending order

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36	1,422	687220 13	580701 25
papers	citations	h-index	g-index

39	39	39	657
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The synergistic action and interplay of hydrogen embrittlement mechanisms in steels and iron: Localized plasticity and decohesion. Engineering Fracture Mechanics, 2019, 216, 106528.	2.0	344
2	Hydrogen damage of steels: A case study and hydrogen embrittlement model. Engineering Failure Analysis, 2015, 58, 485-498.	1.8	240
3	Hydrogen Embrittlement of Industrial Components: Prediction, Prevention, and Models. Corrosion, 2016, 72, 943-961.	0.5	140
4	Hydrogen embrittlement of low carbon structural steel at macro-, micro- and nano-levels. International Journal of Hydrogen Energy, 2020, 45, 2145-2156.	3.8	96
5	External corrosion of oil and gas pipelines: A review of failure mechanisms and predictive preventions. Journal of Natural Gas Science and Engineering, 2022, 100, 104467.	2.1	93
6	Hydrogen Embrittlement of Low Carbon Structural Steel. , 2014, 3, 1167-1172.		86
7	Influence of hydrogen-enhanced plasticity and decohesion mechanisms of hydrogen embrittlement on the fracture resistance of steel. Engineering Failure Analysis, 2021, 123, 105312.	1.8	85
8	The synergistic effects of hydrogen embrittlement and transient gas flow conditions on integrity assessment of a precracked steel pipeline. International Journal of Hydrogen Energy, 2020, 45, 18010-18020.	3.8	57
9	Towards a unified and practical industrial model for prediction of hydrogen embrittlement and damage in steels. Procedia Structural Integrity, 2016, 2, 604-611.	0.3	40
10	Long-term external microbiologically influenced corrosion of buried cast iron pipes in the presence of sulfate-reducing bacteria (SRB). Engineering Failure Analysis, 2020, 115, 104657.	1.8	36
11	Hydrogen Permeation and Hydrogen-Induced Cracking. , 2018, , 133-162.		32
12	Probabilistic analysis of corroded pipeline under localized corrosion defects based on the intelligent inspection tool. Engineering Failure Analysis, 2020, 115, 104683.	1.8	31
13	Fracture of Nano and Engineering Materials and Structures. , 2006, , .		20
14	Theoretical study of AlN mechanical behaviour under high pressure regime. Theoretical and Applied Fracture Mechanics, 2019, 103, 102289.	2.1	20
15	Assessment of corroded API 5L X52 pipe elbow using a modified failure assessment diagram. International Journal of Pressure Vessels and Piping, 2021, 190, 104291.	1.2	15
16	A probabilistic approach to estimate the remaining life and reliability of corroded pipelines. Journal of Natural Gas Science and Engineering, 2022, 99, 104387.	2.1	15
17	Corrosion induced failure of the ductile iron pipes at micro- and nano-levels. Engineering Failure Analysis, 2021, 121, 105169.	1.8	13
18	Microstructure and Wear Behavior of MMC Coatings Deposited by Plasma Transferred Arc Welding and Thermal Flame Spraying Processes. Transactions of the Indian Institute of Metals, 2020, 73, 259-271.	0.7	12

#	Article	IF	Citations
19	The thermal history and stress state of a fresh steam-pipeline influencing its remaining service life. Thermal Science, 2011, 15, 691-704.	0.5	8
20	Material Characterization of the Main Steam Gate Valve Made of X20CrMoV 12.1 Steel after Long Term Service. , 2014, 3, 1512-1517.		7
21	Statistical correlation between vibration characteristics, surface temperatures and service life of rolling bearings â€“ artificially contaminated by open pit coal mine debris particles. Procedia Structural Integrity, 2016, 2, 2338-2346.	0.3	6
22	Oxidation behavior during prolonged service of boiler tubes made of 2.25Cr1Mo and 12Cr1Mo0.3V heat resistance steels. Procedia Structural Integrity, 2016, 2, 3647-3653.	0.3	5
23	Recent Advances on Hydrogen Embrittlement Understanding and Future Research Framework, Editorial. Engineering Fracture Mechanics, 2021, 241, 107439.	2.0	5
24	Remaining life assessment of a high pressure turbine casing in creep and low cycle service regime. Thermal Science, 2014, 18, 127-138.	0.5	4
25	Repair Welding of Crane Wheels in Steelworks Smederevo. Advanced Materials Research, 0, 1138, 180-185.	0.3	3
26	Numerical analysis of thermal stresses in welded joint smade of steels X20 and X22. Thermal Science, 2014, 18, 121-126.	0.5	2
27	The development and application of the new methodology for conveyor idlers fits testing. Procedia Structural Integrity, 2018, 13, 2143-2151.	0.3	2
28	Characterization of a coating 316L applied by plasma transferred arc. Hemijska Industrija, 2018, 72, 139-147.	0.3	2
29	Theoretical investigation of structural, mechanical, elastic and vibrational properties of advanced materials under extreme conditions. Procedia Structural Integrity, 2018, 13, 2005-2010.	0.3	1
30	Metalizacija velikim brzinama u struji produkata sagorevanja - HVOF. , 2015, , .		0
31	Characterization of Tube Repair Weld in Thermal Power Plant Made of a 12%Cr Tempered Martensite Ferritic Steel. Lecture Notes in Mechanical Engineering, 2017, , 151-169.	0.3	0
32	Hladna metalizacija. , 2017, , .		0
33	Plazma metalizacija u vazduhu. , 2018, , .		0
34	Rendgenska difraktometrija praha - XRPD. , 2019, , .		0
35	Stress Corrosion Crack Growth Simulation by the Finite Element Method. Lecture Notes in Networks and Systems, 2022, , 257-274.	0.5	0
36	Structure Integrity of Pressure Vesels Repair Welding Joints. , 0, , 1083-1084.		0