

# Olha Zvirko

## List of Publications by Year in descending order

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48  
papers

645  
citations

516710

16  
h-index

642732

23  
g-index

51  
all docs

51  
docs citations

51  
times ranked

133  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stress corrosion cracking of gas pipeline steels of different strength. <i>Procedia Structural Integrity</i> , 2016, 2, 509-516.	0.8	41
2	Influence of operation of Kh52 steel on corrosion processes in a model solution of gas condensate. <i>Materials Science</i> , 2008, 44, 619-629.	0.9	38
3	Analysis and mechanical properties characterization of operated gas main elbow with hydrogen assisted large-scale delamination. <i>Engineering Failure Analysis</i> , 2017, 82, 364-377.	4.0	37
4	Mechanical analysis at different scales of gas pipelines. <i>Engineering Failure Analysis</i> , 2018, 90, 434-439.	4.0	30
5	Corrosion Degradation of Steel of an Elbow of Gas Pipeline with Large-Scale Delamination after Long-Term Operation. <i>Materials Science</i> , 2017, 52, 861-865.	0.9	26
6	Influence of Textures of Pipeline Steels after Operation on Their Brittle Fracture Resistance. <i>Materials Science</i> , 2018, 54, 400-405.	0.9	26
7	Assessment of in-service degradation of gas pipeline steel taking into account susceptibility to stress corrosion cracking. <i>Procedia Structural Integrity</i> , 2019, 16, 121-125.	0.8	25
8	Non-destructive evaluation of brittle fracture resistance of operated gas pipeline steel using electrochemical fracture surface analysis. <i>Engineering Failure Analysis</i> , 2019, 104, 617-625.	4.0	24
9	Embrittlement of the steel of an oil-trunk pipeline. <i>Materials Science</i> , 2004, 40, 302-304.	0.9	23
10	Assessment of Operational Degradation of Pipeline Steels. <i>Materials</i> , 2021, 14, 3247.	2.9	23
11	Feature of stress corrosion cracking of degraded gas pipeline steels. <i>Procedia Structural Integrity</i> , 2019, 16, 153-160.	0.8	22
12	Corrosion Resistance of Pipe Steel in Oil-Water Media. <i>Materials Science</i> , 2002, 38, 424-429.	0.9	21
13	Electrochemical Methods for the Evaluation of the Degradation of Structural Steels Intended for Long-Term Operation. <i>Materials Science</i> , 2017, 52, 588-594.	0.9	20
14	Role of hydrogen in operational degradation of pipeline steel. <i>Procedia Structural Integrity</i> , 2020, 28, 896-902.	0.8	19
15	Evaluation of the In-service Degradation of Steels of Gas Pipelines According to the Criterion of Mechanical Stability. <i>Materials Science</i> , 2015, 50, 830-835.	0.9	17
16	Electrochemical fracture analysis of in-service natural gas pipeline steels. <i>Procedia Structural Integrity</i> , 2018, 13, 1215-1220.	0.8	17
17	Methods for the Evaluation of Corrosion-Hydrogen Degradation of Steels of Oil-and-Gas Pipelines. <i>Materials Science</i> , 2021, 56, 585-592.	0.9	17
18	Estimation of the In-service Degradation of Steel Shapes for the Boom of a Clamp-Forming Machine. <i>Materials Science</i> , 2014, 49, 501-507.	0.9	15

#	ARTICLE	IF	CITATIONS
19	Corrosion-Fatigue Crack-Growth Resistance of Steel of the Boom of a Clamp-Forming Machine. <i>Materials Science</i> , 2015, 51, 229-234.	0.9	15
20	Degradation of properties of the metal of welded joints in operating gas mains. <i>Materials Science</i> , 2011, 46, 628-632.	0.9	14
21	Hydrogen assisted macrolamination in gas lateral pipe. <i>Procedia Structural Integrity</i> , 2016, 2, 501-508.	0.8	12
22	Pipeline durability and integrity issues at hydrogen transport via natural gas distribution network. <i>Procedia Structural Integrity</i> , 2021, 33, 646-651.	0.8	12
23	Diagnostics of Hydrogen Macrolamination in the Wall of a Bent Pipe in the System of Gas Mains. <i>Materials Science</i> , 2016, 51, 530-537.	0.9	11
24	A Procedure of Laboratory Degradation of Structural Steels. <i>Materials Science</i> , 2018, 53, 674-683.	0.9	11
25	In-Service Degradation of Structural Steels (A Survey). <i>Materials Science</i> , 2021, 57, 319-330.	0.9	11
26	Influence of the Compositions of Neutral Soil Media on the Corrosion Cracking of Pipe Steel. <i>Materials Science</i> , 2015, 50, 671-675.	0.9	10
27	An indentation based investigation on the characteristics of artificially aged pipeline steels. <i>Procedia Structural Integrity</i> , 2017, 3, 172-175.	0.8	10
28	Evaluation of Corrosion, Mechanical Properties and Hydrogen Embrittlement of Casing Pipe Steels with Different Microstructure. <i>Materials</i> , 2021, 14, 7860.	2.9	10
29	Micro and macro mechanical analysis of gas pipeline steels. <i>Procedia Structural Integrity</i> , 2017, 5, 627-632.	0.8	8
30	Structure and Properties of the Steels of Hyperboloid Gridshell shukhovâ€™s Towers After Long-Term Operation. <i>Materials Science</i> , 2014, 49, 787-795.	0.9	7
31	Influence of Long-Term Cyclic Deformation on the Electrochemical Behavior of Steels of Marine Gantry Cranes. <i>Materials Science</i> , 2015, 51, 125-130.	0.9	7
32	Laboratory method for simulating hydrogen assisted degradation of gas pipeline steels. <i>Procedia Structural Integrity</i> , 2019, 17, 568-575.	0.8	7
33	Evaluation of impact toughness of gas pipeline steels under operation using electrochemical method. <i>Procedia Structural Integrity</i> , 2019, 22, 299-304.	0.8	7
34	Susceptibility of carbon pipeline steels operated in natural gas distribution network to hydrogen-induced cracking. <i>Procedia Structural Integrity</i> , 2022, 36, 306-312.	0.8	7
35	Assessment of Operational Degradation of Pipeline Steel Based on True Stressâ€“Strain Diagrams. <i>Lecture Notes in Civil Engineering</i> , 2021, , 175-187.	0.4	6
36	Corrosion and electrochemical properties of the steel of exploited oil tanks in bottom water. <i>Materials Science</i> , 2008, 44, 126-132.	0.9	5

#	ARTICLE	IF	CITATIONS
37	Analysis of the Stressed State of a Pipe of Gas Pipeline with Hydrogen-Induced Macrodefect. Materials Science, 2019, 55, 124-129.	0.9	5
38	Non-destructive evaluation of operated pipeline steel state taking into account degradation stage. Procedia Structural Integrity, 2020, 26, 219-224.	0.8	5
39	Elevation of the Fatigue Strength of Pump Rods as a Result of Treatment with a Special Medium. Materials Science, 2020, 56, 125-131.	0.9	4
40	Analysis of the Deceleration Methods of Fatigue Crack Growth Rates under Mode I Loading Type in Pearlitic Rail Steel. Metals, 2021, 11, 584.	2.3	4
41	Influence of the Structural Features of Steels of Casing Pipes on their Mechanical Properties and Hydrogen Brittleness. Materials Science, 2021, 56, 748-754.	0.9	4
42	Mechanical fabrication methods of nanostructured surfaces. , 2021, , 25-67.		3
43	Corrosion and Corrosion-Mechanical Fracture of the Steel of Crude-Oil Tanks. Materials Science, 2016, 51, 666-672.	0.9	2
44	Electrochemical Method for the Diagnostics of Degradation of Steels of Marine Portal Cranes. Materials Science, 2020, 56, 410-416.	0.9	1
45	Non-destructive Electrochemical Evaluation of Pipeline Degradation. Lecture Notes in Civil Engineering, 2021, , 31-44.	0.4	1
46	Analysis of operational factors affecting the serviceability of seaport hoisting and transporting equipment. Procedia Structural Integrity, 2022, 41, 326-332.	0.8	1
47	Model Investigations of Corrosion Processes in a Thin Layer of Electrolyte on the Oilâ€“Water Interface. Materials Science, 2003, 39, 761-763.	0.9	0
48	Corrosion and stress-corrosion cracking of exploited storage tank steel. Materials Science, 2004, 40, 421-427.	0.9	0