

# Grzegorz Psuj

## List of Publications by Year in descending order

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44  
papers

315  
citations

933264

10  
h-index

940416

16  
g-index

47  
all docs

47  
docs citations

47  
times ranked

262  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Sensor Data Integration Using Deep Learning for Characterization of Defects in Steel Elements. <i>Sensors</i> , 2018, 18, 292.	2.1	75
2	Use of Time-Dependent Multispectral Representation of Magnetic Barkhausen Noise Signals for the Needs of Non-Destructive Evaluation of Steel Materials. <i>Sensors</i> , 2019, 19, 1443.	2.1	20
3	In-Line Inspection Tool with Eddy Current Instrumentation for Fatigue Crack Detection. <i>Sensors</i> , 2018, 18, 2161.	2.1	17
4	Detection and Identification of Defects in 3D-Printed Dielectric Structures via Thermographic Inspection and Deep Neural Networks. <i>Materials</i> , 2021, 14, 4168.	1.3	16
5	Nondestructive Inspection of Thin Basalt Fiber Reinforced Composites Using Combined Terahertz Imaging and Infrared Thermography. <i>Advances in Materials Science and Engineering</i> , 2016, 2016, 1-13.	1.0	15
6	Time-Frequency Analysis of Barkhausen Noise for the Needs of Anisotropy Evaluation of Grain-Oriented Steels. <i>Sensors</i> , 2020, 20, 768.	2.1	15
7	EVALUATION OF STRESS IN STEEL STRUCTURES USING ELECTROMAGNETIC METHODS BASED ON UTILIZATION OF MICROSTRIP ANTENNA SENSOR AND MONITORING OF AC MAGNETIZATION PROCESS. <i>Informatyka Automatyka Pomiary W Gospodarce I Ochronie Āšrodowiska</i> , 2016, 6, 32-36.	0.2	14
8	Fusion of electromagnetic inspection methods for evaluation of stress-loaded steel samples. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 3721-3723.	1.2	12
9	Utilization of Multisensor Data Fusion for Magnetic Nondestructive Evaluation of Defects in Steel Elements under Various Operation Strategies. <i>Sensors</i> , 2018, 18, 2091.	2.1	12
10	Evaluation of fatigue-loaded steel samples using fusion of electromagnetic methods. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 2737-2739.	1.0	11
11	Wind Turbine Blades Inspection Techniques. <i>Przegląd Elektrotechniczny</i> , 2016, 1, 3-6.	0.1	10
12	Magnetic Field Multi-sensor Transducer for Detection of Defects in Steel Components. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-4.	1.2	9
13	Electromagnetic system for nondestructive evaluation of train hollow axles. , 2013, , .		7
14	Stress evaluation in non-oriented electrical steel samples by observation of vector magnetic flux under static and rotating field conditions. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2014, 44, 339-347.	0.3	7
15	Data Fusion From Multidirectional Remanent Flux Leakage Transducers for Nondestructive Testing of Stress- and Fatigue-Loaded Steel Samples. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 3285-3288.	1.2	6
16	Observation of Material Degradation under Fatigue and Static Loading Condition Using Selected Electromagnetic NDT Methods. <i>Materials Science Forum</i> , 0, 721, 120-126.	0.3	6
17	Use of Time-Frequency Representation of Magnetic Barkhausen Noise for Evaluation of Easy Magnetization Axis of Grain-Oriented Steel. <i>Materials</i> , 2020, 13, 3390.	1.3	6
18	Detection and classification of weld defects in industrial radiography with use of advanced AI methods. , 2013, , .		5

#	ARTICLE	IF	CITATIONS
19	Infrared and electromagnetic inspection of steel structures under load. Quantitative InfraRed Thermography Journal, 2016, 13, 232-241.	2.1	5
20	Classâ€œAdhesiveâ€œSteel Joint Inspection Using Mechanic and High Frequency Electromagnetic Waves. Materials, 2020, 13, 4648.	1.3	5
21	DATA FUSION OF EDDY CURRENT NDT SIGNALS. AIP Conference Proceedings, 2008, , .	0.3	4
22	Analysis of time-frequency representation of Magnetic Barkhausen noise for the need of damage evaluation of steels elements. , 2018, , .		4
23	Identification of Grain Oriented SiFe Steels Based on Imaging the Instantaneous Dynamics of Magnetic Barkhausen Noise Using Short-Time Fourier Transform and Deep Convolutional Neural Network. Materials, 2022, 15, 118.	1.3	4
24	Multiple parameters fusion of electromagnetic nondestructive inspection data for evaluation of fatigue damage in steel elements. International Journal of Applied Electromagnetics and Mechanics, 2018, 57, 209-216.	0.3	3
25	Influence of measurement conditions on the Magnetic Barkhausen Noise properties. , 2018, , .		3
26	Eddy Current Transducer for Evaluation of Inhomogeneity in Titanium Billets. IEEE Transactions on Magnetics, 2011, 47, 3967-3970.	1.2	2
27	Eddy Current Transducer Dedicated for Sigma Phase Evaluation in Duplex Stainless Steel. Journal of Sensors, 2012, 2012, 1-6.	0.6	2
28	Fusion of multiple parameters of signals obtained by vector magnetic flux observation for evaluation of stress loaded steel samples. International Journal of Applied Electromagnetics and Mechanics, 2015, 49, 1-7.	0.3	2
29	Application of deep learning procedure to magnetic multi-sensor matrix transducer data for the need of defect characterization in steel elements. , 2017, , .		2
30	Analysis of the Possibility of Using Various Time-Frequency Transformation Methods to Barkhausen Noise Characterization for the Need of Magnetic Anisotropy Evaluation in Steels. Applied Sciences (Switzerland), 2021, 11, 6193.	1.3	2
31	Fatigue Monitoring of Steel Structures using Electromagnetic and Infrared Thermography Inspection Methods. Przegląd Elektrotechniczny, 2016, 1, 7-10.	0.1	2
32	Application of Selected Fractal Geometry Resonators in Microstrip Strain Sensors. IEEE Sensors Journal, 2022, 22, 12656-12663.	2.4	2
33	COMPARATIVE ANALYSIS OF SELECTED EDDY CURRENT TRANSDUCERS FOR TITANIUM ALLOY EVALUATION. , 2010, , .		1
34	INTELLIGENT SYSTEM FOR RADIOGRAM ANALYSIS. , 2011, , .		1
35	The Sigma Phase Evaluation in Duplex Stainless Steel Using ECT Method. Materials Science Forum, 2012, 721, 65-70.	0.3	1
36	Eddy current system for inspection of train hollow axles. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
37	Time-frequency representation of magnetic Barkhausen noise under various measurement conditions. , 2019, , .		1
38	A System for Monitoring of Broadband FMR Phenomenon in Low-Carbon Steel Films Subjected to Deformations. Sensors, 2021, 21, 4301.	2.1	1
39	Qualitative evaluation of 3D printed materialsâ€™ structure using active infrared thermography and signal analysis based on LSTM neural networks. International Journal of Applied Electromagnetics and Mechanics, 2022, 69, 359-373.	0.3	1
40	Electromagnetic Transducer With Rotational Excitation Field for Evaluation of Fatigue and Stress Loaded Steel Samples. IEEE Transactions on Magnetics, 2009, 45, 3897-3900.	1.2	0
41	Intelligent System for Radiogram Analysis &#x2014; Software application. , 2011, , .		0
42	EVALUATION OF OUTER FLAWS IN TITANIUM ALLOYS USING EDDY CURRENT MEASURING SYSTEM. , 2011, , .		0
43	A study on the impact of DSS electromagnetic properties changes caused by a sigma phase on an eddy current transducer pick-up signal. International Journal of Applied Electromagnetics and Mechanics, 2014, 45, 527-534.	0.3	0
44	Multivariate fusion of nondestructive inspection data for assessment of fatigue damage in steel components. , 2017, , .		0