

Minnamari Vippola

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

118
papers

3,435
citations

31
h-index

55
g-index

123
ext. papers

3,803
ext. citations

4.3
avg, IF

5.03
L-index

#	Paper	IF	Citations
118	The Effect of Severe Shot Peening on Fatigue Life of Laser Powder Bed Fusion Manufactured 316L Stainless Steel. <i>Materials</i> , 2022 , 15, 3517	3.5	0
117	Mimicking Barkhausen noise measurement by in-situ transmission electron microscopy - effect of microstructural steel features on Barkhausen noise. <i>Acta Materialia</i> , 2021 , 221, 117378	8.4	1
116	Characterization of Pt-based oxidation catalyst Deactivated simultaneously by sulfur and phosphorus. <i>Journal of Catalysis</i> , 2021 , 397, 183-191	7.3	3
115	Effect of carbon nanotubes and nanodiamonds on the heat storage ability of natural rubber composites. <i>Journal of Elastomers and Plastics</i> , 2021 , 53, 311-322	1.6	0
114	Additive Manufactured 316L Stainless-Steel Samples: Microstructure, Residual Stress and Corrosion Characteristics after Post-Processing. <i>Metals</i> , 2021 , 11, 182	2.3	7
113	Fabrication of self-supporting structures made of washcoat materials (Al ₂ O ₃ -CeO ₂) by ceramic stereolithography: Towards digital manufacturing of enhanced catalytic converters. <i>Materials and Design</i> , 2021 , 210, 110115	8.1	
112	The effect of substrate pre-treatment on durability of rubber-stainless steel adhesion. <i>Surfaces and Interfaces</i> , 2020 , 21, 100646	4.1	2
111	A comprehensive review of the photopolymerization of ceramic resins used in stereolithography. <i>Additive Manufacturing</i> , 2020 , 35, 101177	6.1	52
110	EFFECT OF ENVIRONMENT ON BROMOBUTYL RUBBER/STEEL ADHESION. <i>Rubber Chemistry and Technology</i> , 2020 , 93, 429-444	1.7	3
109	Cracking and Failure Characteristics of Flame Cut Thick Steel Plates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 1744-1754	2.3	1
108	PHASE-CHANGE MATERIAL: NATURAL RUBBER COMPOSITES FOR HEAT STORAGE APPLICATIONS. <i>Rubber Chemistry and Technology</i> , 2020 , 93, 208-221	1.7	1
107	Detailed Barkhausen noise and microscopy characterization of Jominy end-quench test sample of CF53 steel. <i>Journal of Materials Science</i> , 2020 , 55, 4896-4909	4.3	5
106	Cracks and degradation layers in large flat-on-flat fretting contact with steels and cast iron. <i>Tribology International</i> , 2020 , 145, 106102	4.9	6
105	Pulmonary toxicity of FeO, ZnFeO, NiFeO and NiZnFeO nanomaterials: Inflammation and DNA strand breaks. <i>Environmental Toxicology and Pharmacology</i> , 2020 , 74, 103303	5.8	13
104	Case Depth Prediction of Nitrided Samples with Barkhausen Noise Measurement. <i>Metals</i> , 2019 , 9, 325	2.3	5
103	Characterization of cracks formed in large flat-on-flat fretting contact. <i>International Journal of Fatigue</i> , 2019 , 124, 361-370	5	14
102	Microstructural Characteristics of Vehicle-Aged Heavy-Duty Diesel Oxidation Catalyst and Natural Gas Three-Way Catalyst. <i>Catalysts</i> , 2019 , 9, 137	4	4

101	Role of Steel Plate Thickness on the Residual Stress Formation and Cracking Behavior During Flame Cutting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 4178-4192	2.3	4
100	Barkhausen Noise Probes and Modelling: A Review. <i>Journal of Nondestructive Evaluation</i> , 2019 , 38, 1	2.1	10
99	Statistical Evaluation of Barkhausen Noise Testing (BNT) for Ground Samples. <i>Sensors</i> , 2019 , 19,	3.8	5
98	The effect of inferior turbinate surgery on ciliated epithelium: A randomized, blinded study. <i>Laryngoscope</i> , 2019 , 129, 18-24	3.6	4
97	The formation and characterization of fretting-induced degradation layers using quenched and tempered steel. <i>Tribology International</i> , 2019 , 131, 258-267	4.9	17
96	Properties of HVOF-sprayed Stellite-6 coatings. <i>Surface and Coatings Technology</i> , 2018 , 338, 45-62	4.4	40
95	Effect of Shot Peening Parameters to Residual Stress Profiles and Barkhausen Noise. <i>Journal of Nondestructive Evaluation</i> , 2018 , 37, 1	2.1	21
94	Regeneration of sulfur-poisoned Pd-based catalyst for natural gas oxidation. <i>Journal of Catalysis</i> , 2018 , 358, 253-265	7.3	26
93	Limitations of eddy current inspection in railway rail evaluation. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2018 , 232, 121-129	1.4	17
92	Geometry Analysis in Screen-Printed Stretchable Interconnects. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018 , 8, 1344-1352	1.7	11
91	The effect of carbon and nickel additions on the precursor synthesis of Cr ₃ C ₂ -Ni nanopowder. <i>Ceramics International</i> , 2018 , 44, 9338-9346	5.1	
90	Effect of Microstructural Characteristics of Thick Steel Plates on Residual Stress Formation and Cracking during Flame Cutting. <i>Materials Performance and Characterization</i> , 2018 , 7, 20170083	0.5	2
89	Surface Layer Characterization of Shot Peened Gear Specimens. <i>Materials Performance and Characterization</i> , 2018 , 7, 20170169	0.5	1
88	The Impact of Sulphur, Phosphorus and their Co-effect on Pt/SiO ₂ /rO ₂ Diesel Oxidation Catalysts. <i>Topics in Catalysis</i> , 2017 , 60, 307-311	2.3	5
87	A Study of Cr ₃ C ₂ -Based HVOF- and HVOF-Sprayed Coatings: Microstructure and Carbide Retention. <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 1239-1256	2.5	31
86	Electron microscopic studies of natural gas oxidation catalyst [Effects of thermally accelerated aging on catalyst microstructure. <i>Journal of Catalysis</i> , 2017 , 349, 19-29	7.3	7
85	Aligned Poly(ϵ -caprolactone) Nanofibers Guide the Orientation and Migration of Human Pluripotent Stem Cell-Derived Neurons, Astrocytes, and Oligodendrocyte Precursor Cells In Vitro. <i>Macromolecular Bioscience</i> , 2017 , 17, 1600517	5.5	17
84	Characterization of Flame Cut Heavy Steel: Modeling of Temperature History and Residual Stress Formation. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017 , 48, 2891-2901	2.5	5

83	Deactivation of Pt/SiO ₂ -ZrO ₂ diesel oxidation catalysts by sulphur, phosphorus and their combinations. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 409-419	21.8	9
82	Automated Ultrasound-based Inspection of Rails: Review. <i>International Journal of Railway</i> , 2017 , 10, 21-29		8
81	Superamphiphobic overhang structured coating on a biobased material. <i>Applied Surface Science</i> , 2016 , 389, 135-143	6.7	25
80	The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst. <i>Topics in Catalysis</i> , 2016 , 59, 1044-1048	2.3	3
79	Hydrothermal carbonization of pulp mill streams. <i>Bioresource Technology</i> , 2016 , 212, 236-244	11	19
78	Insight to Nanoparticle Size Analysis-Novel and Convenient Image Analysis Method Versus Conventional Techniques. <i>Nanoscale Research Letters</i> , 2016 , 11, 169	5	20
77	The Characterization of Flame Cut Heavy Steel □The Residual Stress Profiling of Heat Affected Surface Layer. <i>Key Engineering Materials</i> , 2016 , 674, 103-108	0.4	4
76	Accelerated deactivation studies of the natural-gas oxidation catalyst□Verifying the role of sulfur and elevated temperature in catalyst aging. <i>Applied Catalysis B: Environmental</i> , 2016 , 182, 439-448	21.8	20
75	Effect of particle size and dispersion status on cytotoxicity and genotoxicity of zinc oxide in human bronchial epithelial cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2016 , 805, 7-18	3	15
74	A Single Aspiration of Rod-like Carbon Nanotubes Induces Asbestos-like Pulmonary Inflammation Mediated in Part by the IL-1 Receptor. <i>Toxicological Sciences</i> , 2015 , 147, 140-55	4.4	47
73	The Effect of Phosphorus Exposure on Diesel Oxidation Catalysts□Part I: Activity Measurements, Elementary and Surface Analyses. <i>Topics in Catalysis</i> , 2015 , 58, 961-970	2.3	12
72	The Effect of Phosphorus Exposure on Diesel Oxidation Catalysts□Part II: Characterization of Structural Changes by Transmission Electron Microscopy. <i>Topics in Catalysis</i> , 2015 , 58, 971-976	2.3	8
71	Corrosion products of carbonation induced corrosion in existing reinforced concrete facades. <i>Cement and Concrete Research</i> , 2015 , 78, 200-207	10.3	37
70	Coating of Silica and Titania Aerosol Nanoparticles by Silver Vapor Condensation. <i>Aerosol Science and Technology</i> , 2015 , 49, 767-776	3.4	2
69	A secretomics analysis reveals major differences in the macrophage responses towards different types of carbon nanotubes. <i>Nanotoxicology</i> , 2015 , 9, 719-28	5.3	26
68	Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	21
67	Characterisation of novel regenerated cellulosic, viscose, and cotton fibres and the dyeing properties of fabrics. <i>Coloration Technology</i> , 2015 , 131, 396-402	2	6
66	In vitro platelet activation, aggregation and platelet-granulocyte complex formation induced by surface modified single-walled carbon nanotubes. <i>Toxicology in Vitro</i> , 2015 , 29, 1132-9	3.6	6

65	Adhesion properties of novel corrosion resistant hybrid structures. <i>International Journal of Adhesion and Adhesives</i> , 2014 , 49, 51-57	3.4	13
64	The effect of test parameters on the impact resistance of a stainless steel/rubber/composite hybrid structure. <i>Composite Structures</i> , 2014 , 113, 469-475	5.3	7
63	Barkhausen noise-magnetizing voltage sweep measurement in evaluation of residual stress in hardened components. <i>Measurement Science and Technology</i> , 2014 , 25, 085602	2	12
62	Topically applied ZnO nanoparticles suppress allergen induced skin inflammation but induce vigorous IgE production in the atopic dermatitis mouse model. <i>Particle and Fibre Toxicology</i> , 2014 , 11, 38	8.4	76
61	Impact properties of novel corrosion resistant hybrid structures. <i>Composite Structures</i> , 2014 , 108, 886-893	5.3	39
60	Review of railway track applications of Barkhausen noise and other magnetic testing methods. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2014 , 56, 657-663	1.3	6
59	Inhalation of rod-like carbon nanotubes causes unconventional allergic airway inflammation. <i>Particle and Fibre Toxicology</i> , 2014 , 11, 48	8.4	68
58	Utilization of frequency-domain information of Barkhausen noise signal in quantitative prediction of material properties 2014 ,		4
57	Case depth verification of hardened samples with Barkhausen noise sweeps 2014 ,		4
56	Free radical scavenging and formation by multi-walled carbon nanotubes in cell free conditions and in human bronchial epithelial cells. <i>Particle and Fibre Toxicology</i> , 2014 , 11, 4	8.4	43
55	Carbon-based nanomaterials accelerate arteriolar thrombus formation in the murine microcirculation independently of their shape. <i>Journal of Applied Toxicology</i> , 2014 , 34, 1167-76	4.1	15
54	Ageing of corrosion resistant steel/rubber/composite hybrid structures. <i>International Journal of Adhesion and Adhesives</i> , 2014 , 49, 26-32	3.4	21
53	An Efficient Procedure for Identifying the Prediction Model Between Residual Stress and Barkhausen Noise. <i>Journal of Nondestructive Evaluation</i> , 2013 , 32, 341-349	2.1	21
52	Structural Characteristics of Natural-Gas-Vehicle-Aged Oxidation Catalyst. <i>Topics in Catalysis</i> , 2013 , 56, 576-585	2.3	23
51	Deactivation of Diesel Oxidation Catalysts by Sulphur in Laboratory and Engine-Bench Scale Aging. <i>Topics in Catalysis</i> , 2013 , 56, 672-678	2.3	13
50	Prediction of Residual Stresses Using Partial Least Squares Regression on Barkhausen Noise Signals. <i>Journal of Nondestructive Evaluation</i> , 2013 , 33, 43	2.1	2
49	Genotoxicity of polyvinylpyrrolidone-coated silver nanoparticles in BEAS 2B cells. <i>Toxicology</i> , 2013 , 313, 38-48	4.4	85
48	An Attempt to Find an Empirical Model between Barkhausen Noise and Stress. <i>Materials Science Forum</i> , 2013 , 768-769, 209-216	0.4	2

47	Development of Barkhausen noise calibration blocks for reliable grinding burn detection. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 408-416	5.3	30
46	Induction of chromosomal aberrations by carbon nanotubes and titanium dioxide nanoparticles in human lymphocytes in vitro. <i>Nanotoxicology</i> , 2012 , 6, 825-36	5.3	32
45	Vibration damping properties of steel/rubber/composite hybrid structures. <i>Composite Structures</i> , 2012 , 94, 3327-3335	5.3	48
44	Optimized laser processing of calibration blocks for grinding burn detection with Barkhausen noise. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 2282-2293	5.3	12
43	Utilization of Barkhausen noise magnetizing sweeps for case-depth detection from hardened steel. <i>NDT and E International</i> , 2012 , 52, 95-102	4.1	49
42	Barkhausen noise characterisation during elastic bending and tensile-compression loading of case-hardened and tempered samples. <i>Journal of Materials Science</i> , 2012 , 47, 6420-6428	4.3	13
41	Metal/thermoplastic urethane hybrids in environmental exposure. <i>International Journal of Adhesion and Adhesives</i> , 2012 , 35, 21-26	3.4	8
40	Wear Reducing Effect of Embedded Quartz Abrasives in Crushing-Pin-on-Disc Procedure. <i>Tribology Online</i> , 2012 , 7, 179-183	0.9	2
39	Proteomic characterization of engineered nanomaterial-protein interactions in relation to surface reactivity. <i>ACS Nano</i> , 2011 , 5, 4300-9	16.7	137
38	Long, needle-like carbon nanotubes and asbestos activate the NLRP3 inflammasome through a similar mechanism. <i>ACS Nano</i> , 2011 , 5, 6861-70	16.7	318
37	Characterization of silane layers on modified stainless steel surfaces and related stainless steel/plastic hybrids. <i>Applied Surface Science</i> , 2011 , 257, 9335-9346	6.7	33
36	Effect of silane treatment parameters on the silane layer formation and bonding to thermoplastic urethane. <i>Progress in Organic Coatings</i> , 2011 , 72, 716-723	4.8	16
35	Aminofunctional silane layers for improved copper/polymer interface adhesion. <i>Journal of Materials Science</i> , 2011 , 46, 6618-6626	4.3	6
34	Aerosol characterization and lung deposition of synthesized TiO ₂ nanoparticles for murine inhalation studies. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 2949-2961	2.3	9
33	The Effect of Sulphur and Water Treatments on the Performance of Pd/Zeolite Diesel Oxidation Catalysts. <i>Topics in Catalysis</i> , 2011 , 54, 1185-1189	2.3	3
32	Characterisation of stainless steel surfaces [modified in air at 350°C]. <i>Surface Engineering</i> , 2011 , 27, 325-336	1.6	7
31	Airway exposure to silica-coated TiO ₂ nanoparticles induces pulmonary neutrophilia in mice. <i>Toxicological Sciences</i> , 2010 , 113, 422-33	4.4	123
30	BARKHAUSEN: A study on laser-processed grinding burn simulation and analysis based on Barkhausen noise measurement. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2010 , 52, 293-297	1.3	9

29	Nanotechnologies, engineered nanomaterials and occupational health and safety: A review. <i>Safety Science</i> , 2010 , 48, 957-963	5.8	123
28	The activity of Pt/Al ₂ O ₃ diesel oxidation catalyst after sulphur and calcium treatments. <i>Catalysis Today</i> , 2010 , 154, 303-307	5.3	31
27	Characterisation of case-hardened gear steel by multiparameter Barkhausen noise measurements. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2009 , 51, 212-216	1.3	8
26	Influence of thermal treatment conditions on the formation of phase-pure mullite derived from a nanoparticulate aluminosilicate precursor. <i>Materials Chemistry and Physics</i> , 2009 , 115, 56-64	4.4	15
25	The Effect of SO ₂ and H ₂ O on the Activity of Pd/CeO ₂ and Pd/ZrO ₂ /CeO ₂ Diesel Oxidation Catalysts. <i>Topics in Catalysis</i> , 2009 , 52, 2025-2028	2.3	16
24	Preparation of nanoparticle dispersions for in-vitro toxicity testing. <i>Human and Experimental Toxicology</i> , 2009 , 28, 377-85	3.4	45
23	Genotoxic effects of nanosized and fine TiO ₂ . <i>Human and Experimental Toxicology</i> , 2009 , 28, 339-52	3.4	176
22	Genotoxicity of nanomaterials: DNA damage and micronuclei induced by carbon nanotubes and graphite nanofibres in human bronchial epithelial cells in vitro. <i>Toxicology Letters</i> , 2009 , 186, 166-73	4.4	232
21	Metal/Plastic Adhesion in Injection-Molded Hybrids. <i>Journal of Adhesion Science and Technology</i> , 2009 , 23, 1747-1761	2	37
20	Oxidation of copper alloys studied by analytical transmission electron microscopy cross-sectional specimens. <i>Journal of Materials Research</i> , 2008 , 23, 1350-1357	2.5	13
19	Optimized dispersion of nanoparticles for biological in vitro and in vivo studies. <i>Particle and Fibre Toxicology</i> , 2008 , 5, 14	8.4	346
18	Influence of the elementary mixing scale on HVOF-sprayed coatings derived from nanostructured aluminosilicate/mullite feedstock. <i>Surface and Coatings Technology</i> , 2008 , 203, 335-344	4.4	4
17	Structural changes in air aged and poisoned diesel catalysts. <i>Topics in Catalysis</i> , 2007 , 45, 137-142	2.3	10
16	Characterization of phosphorus poisoning on diesel exhaust gas catalyst components containing oxide and Pt. <i>Topics in Catalysis</i> , 2007 , 45, 153-157	2.3	7
15	Low temperature oxidation of copper alloys: XEM and AFM characterization. <i>Journal of Materials Science</i> , 2007 , 42, 4684-4691	4.3	13
14	Sol-gel derived aluminosilicate coatings on alumina as substrate for osteoblasts. <i>Acta Biomaterialia</i> , 2006 , 2, 659-68	10.8	23
13	Collection of liquid flame spray generated TiO ₂ nanoparticles on stainless steel surface. <i>Materials Letters</i> , 2006 , 60, 530-534	3.3	19
12	Generation of silver/palladium nanoparticles by liquid flame spray. <i>Journal of Materials Research</i> , 2004 , 19, 1544-1550	2.5	33

11	Structural Characterization of Aluminum Phosphate Binder. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 1834-1836	3.8	32
10	The effect of Pt/Rh synergism on the thermal stability of rhodium oxide on pure alumina and Ce/ZrO ₂ -modified alumina-supported catalysts. <i>Journal of Catalysis</i> , 2004 , 226, 372-381	7.3	20
9	Characterization of modified thick thermal barrier coatings. <i>Journal of Thermal Spray Technology</i> , 2004 , 13, 361-369	2.5	24
8	Modified thick thermal barrier coatings: microstructural characterization. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 2247-2258	6	48
7	The effect of platinum on the reducibility of Rh oxides on Ce/Zr modified alumina supported automotive catalysts. <i>Surface and Interface Analysis</i> , 2004 , 36, 741-744	1.5	7
6	AEM study of aluminum phosphate sealed plasma sprayed Al ₂ O ₃ and Cr ₂ O ₃ coatings. <i>Journal of Materials Science Letters</i> , 2003 , 22, 463-466		8
5	Aluminum phosphate sealed alumina coating: characterization of microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 323, 1-8	5.3	60
4	Thermal analysis of plasma sprayed oxide coatings sealed with aluminium phosphate. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 1937-1946	6	35
3	Residual stresses in aluminium phosphate sealed plasma sprayed oxide coatings and their effect on abrasive wear. <i>Wear</i> , 2002 , 252, 614-623	3.5	33
2	Microstructural study of aluminum phosphate-sealed, plasma-sprayed chromium oxide coating. <i>Journal of Thermal Spray Technology</i> , 2002 , 11, 253-260	2.5	15
1	Wear and corrosion properties of plasma sprayed Al ₂ O ₃ and Cr ₂ O ₃ coatings sealed by aluminum phosphates. <i>Journal of Thermal Spray Technology</i> , 1997 , 6, 205-210	2.5	60