Minnamari Vippola

List of Publications by Year
in descending order

120 papers	4,246 citations	126907 33 h-index	123424 61 g-index
123 all docs	123 docs citations	123 times ranked	5619 citing authors

#	Article	IF	Citations
1	The Effect of Severe Shot Peening on Fatigue Life of Laser Powder Bed Fusion Manufactured 316L Stainless Steel. Materials, 2022, 15, 3517.	2.9	15
2	Effect of carbon nanotubes and nanodiamonds on the heat storage ability of natural rubber composites. Journal of Elastomers and Plastics, 2021, 53, 311-322.	1.5	3
3	Additive Manufactured 316L Stainless-Steel Samples: Microstructure, Residual Stress and Corrosion Characteristics after Post-Processing. Metals, 2021, 11, 182.	2.3	23
4	Characterization of Pt-based oxidation catalyst â€“ Deactivated simultaneously by sulfur and phosphorus. Journal of Catalysis, 2021, 397, 183-191.	6.2	9
5	Vanadiaâ€“Zirconia and Vanadiaâ€“Hafnia Catalysts for Utilization of Volatile Organic Compound Emissions. Materials, 2021, 14, 5265.	2.9	1
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#	Article	IF	Citations
19	Case Depth Prediction of Nitrided Samples with Barkhausen Noise Measurement. Metals, 2019, 9, 325.	2.3	10
20	Characterization of cracks formed in large flat-on-flat fretting contact. International Journal of Fatigue, 2019, 124, 361-370.	5.7	22
21	Microstructural Characteristics of Vehicle-Aged Heavy-Duty Diesel Oxidation Catalyst and Natural Gas Three-Way Catalyst. Catalysts, 2019, 9, 137.	3.5	11
22	The effect of inferior turbinate surgery on ciliated epithelium: A randomized, blinded study. Laryngoscope, 2019, 129, 18-24.	2.0	5
23	The formation and characterization of fretting-induced degradation layers using quenched and tempered steel. Tribology International, 2019, 131, 258-267.	5.9	26
24	Properties of HVOF-sprayed Stellite-6 coatings. Surface and Coatings Technology, 2018, 338, 45-62.	4.8	53
25	Effect of Shot Peening Parameters to Residual Stress Profiles and Barkhausen Noise. Journal of Nondestructive Evaluation, 2018, 37, 1.	2.4	30
26	Regeneration of sulfur-poisoned Pd-based catalyst for natural gas oxidation. Journal of Catalysis, 2018, 358, 253-265.	6.2	41
27	Limitations of eddy current inspection in railway rail evaluation. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 121-129.	2.0	33
28	Geometry Analysis in Screen-Printed Stretchable Interconnects. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 1344-1352.	2.5	13
29	The effect of carbon and nickel additions on the precursor synthesis of Cr3C2-Ni nanopowder. Ceramics International, 2018, 44, 9338-9346.	4.8	0
30	Effect of Microstructural Characteristics of Thick Steel Plates on Residual Stress Formation and Cracking during Flame Cutting. Materials Performance and Characterization, 2018, 7, 20170083.	0.3	3
31	Surface Layer Characterization of Shot Peened Gear Specimens. Materials Performance and Characterization, 2018, 7, 20170169.	0.3	3
32	The Impact of Sulphur, Phosphorus and their Co-effect on Pt/SiO2â€“ZrO2 Diesel Oxidation Catalysts. Topics in Catalysis, 2017, 60, 307-311.	2.8	6
33	A Study of Cr3C2-Based HVOF- and HVAF-Sprayed Coatings: Microstructure and Carbide Retention. Journal of Thermal Spray Technology, 2017, 26, 1239-1256.	3.1	45
34	Electron microscopic studies of natural gas oxidation catalyst â€“ Effects of thermally accelerated aging on catalyst microstructure. Journal of Catalysis, 2017, 349, 19-29.	6.2	10
35	Aligned Poly(Îµâ€caprolactone) Nanofibers Guide the Orientation and Migration of Human Pluripotent Stem Cellâ€Derived Neurons, Astrocytes, and Oligodendrocyte Precursor Cells In Vitro. Macromolecular Bioscience, 2017, 17, 1600517.	4.1	22
36	Characterization of Flame Cut Heavy Steel: Modeling of Temperature History and Residual Stress Formation. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2891-2901.	2.1	8

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37	Deactivation of Pt/SiO2-ZrO2 diesel oxidation catalysts by sulphur, phosphorus and their combinations. Applied Catalysis B: Environmental, 2017, 218, 409-419.	20.2	20
38	Automated Ultrasound-based Inspection of Rails: Review. International Journal of Railway, 2017, 10, 21-29.	0.2	10
39	Effect of particle size and dispersion status on cytotoxicity and genotoxicity of zinc oxide in human bronchial epithelial cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2016, 805, 7-18.	1.7	17
40	Superamphiphobic overhang structured coating on a biobased material. Applied Surface Science, 2016, 389, 135-143.	6.1	38
41	The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst. Topics in Catalysis, 2016, 59, 1044-1048.	2.8	4
42	Hydrothermal carbonization of pulp mill streams. Bioresource Technology, 2016, 212, 236-244.	9.6	20
43	Insight to Nanoparticle Size Analysisâ€"Novel and Convenient Image Analysis Method Versus Conventional Techniques. Nanoscale Research Letters, 2016, 11, 169.	5.7	26
44	Accelerated deactivation studies of the natural-gas oxidation catalystâ€"Verifying the role of sulfur and elevated temperature in catalyst aging. Applied Catalysis B: Environmental, 2016, 182, 439-448.	20.2	24
45	Barkhausen noise response of three different welded duplex stainless steels. Insight: Non-Destructive Testing and Condition Monitoring, 2016, 58, 480-486.	0.6	1
46	Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	25
47	Characterisation of novel regenerated cellulosic, viscose, and cotton fibres and the dyeing properties of fabrics. Coloration Technology, 2015, 131, 396-402.	1.5	7
48	In vitro platelet activation, aggregation and plateletâ€"granulocyte complex formation induced by surface modified single-walled carbon nanotubes. Toxicology in Vitro, 2015, 29, 1132-1139.	2.4	6
49	A Single Aspiration of Rod-like Carbon Nanotubes Induces Asbestos-like Pulmonary Inflammation Mediated in Part by the IL-1 Receptor. Toxicological Sciences, 2015, 147, 140-155.	3.1	53
50	The Effect of Phosphorus Exposure on Diesel Oxidation Catalystsâ€"Part I: Activity Measurements, Elementary and Surface Analyses. Topics in Catalysis, 2015, 58, 961-970.	2.8	17
51	The Effect of Phosphorus Exposure on Diesel Oxidation Catalystsâ€"Part II: Characterization of Structural Changes by Transmission Electron Microscopy. Topics in Catalysis, 2015, 58, 971-976.	2.8	12
52	Corrosion products of carbonation induced corrosion in existing reinforced concrete facades. Cement and Concrete Research, 2015, 78, 200-207.	11.0	55
53	Coating of Silica and Titania Aerosol Nanoparticles by Silver Vapor Condensation. Aerosol Science and Technology, 2015, 49, 767-776.	3.1	3
54	A secretomics analysis reveals major differences in the macrophage responses towards different types of carbon nanotubes. Nanotoxicology, 2015, 9, 719-728.	3.0	29

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55	Inhalation of rod-like carbon nanotubes causes unconventional allergic airway inflammation. Particle and Fibre Toxicology, 2014, 11, 48.	6.2	83
56	Utilization of frequency-domain information of Barkhausen noise signal in quantitative prediction of material properties. AIP Conference Proceedings, 2014, , .	0.4	8
57	Case depth verification of hardened samples with Barkhausen noise sweeps. , 2014, , .		6
58	Free radical scavenging and formation by multi-walled carbon nanotubes in cell free conditions and in human bronchial epithelial cells. Particle and Fibre Toxicology, 2014, 11, 4.	6.2	49
59	Carbonâ€based nanomaterials accelerate arteriolar thrombus formation in the murine microcirculation independently of their shape. Journal of Applied Toxicology, 2014, 34, 1167-1176.	2.8	15
60	Ageing of corrosion resistant steel/rubber/composite hybrid structures. International Journal of Adhesion and Adhesives, 2014, 49, 26-32.	2.9	23
61	Adhesion properties of novel corrosion resistant hybrid structures. International Journal of Adhesion and Adhesives, 2014, 49, 51-57.	2.9	17
62	The effect of test parameters on the impact resistance of a stainless steel/rubber/composite hybrid structure. Composite Structures, 2014, 113, 469-475.	5.8	9
63	Barkhausen noise-magnetizing voltage sweep measurement in evaluation of residual stress in hardened components. Measurement Science and Technology, 2014, 25, 085602.	2.6	17
64	Topically applied ZnO nanoparticles suppress allergen induced skin inflammation but induce vigorous IgE production in the atopic dermatitis mouse model. Particle and Fibre Toxicology, 2014, 11, 38.	6.2	103
65	Impact properties of novel corrosion resistant hybrid structures. Composite Structures, 2014, 108, 886-893.	5.8	42
66	Review of railway track applications of Barkhausen noise and other magnetic testing methods. Insight: Non-Destructive Testing and Condition Monitoring, 2014, 56, 657-663.	0.6	10
67	An Efficient Procedure for Identifying the Prediction Model Between Residual Stress and Barkhausen Noise. Journal of Nondestructive Evaluation, 2013, 32, 341-349.	2.4	27
68	Structural Characteristics of Natural-Gas-Vehicle-Aged Oxidation Catalyst. Topics in Catalysis, 2013, 56, 576-585.	2.8	27
69	Deactivation of Diesel Oxidation Catalysts by Sulphur in Laboratory and Engine-Bench Scale Aging. Topics in Catalysis, 2013, 56, 672-678.	2.8	14
70	Prediction of Residual Stresses Using Partial Least Squares Regression on Barkhausen Noise Signals. Journal of Nondestructive Evaluation, 2013, 33, 43.	2.4	5
71	Genotoxicity of polyvinylpyrrolidone-coated silver nanoparticles in BEAS 2B cells. Toxicology, 2013, 313, 38-48.	4.2	96
72	Induction of chromosomal aberrations by carbon nanotubes and titanium dioxide nanoparticles in human lymphocytesin vitro. Nanotoxicology, 2012, 6, 825-836.	3.0	38

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73	Vibration damping properties of steel/rubber/composite hybrid structures. Composite Structures, 2012, 94, 3327-3335.	5.8	63
74	Optimized laser processing of calibration blocks for grinding burn detection with Barkhausen noise. Journal of Materials Processing Technology, 2012, 212, 2282-2293.	6.3	14
75	Utilization of Barkhausen noise magnetizing sweeps for case-depth detection from hardened steel. NDT and E International, 2012, 52, 95-102.	3.7	60
76	Barkhausen noise characterisation during elastic bending and tensile-compression loading of case-hardened and tempered samples. Journal of Materials Science, 2012, 47, 6420-6428.	3.7	17
77	Metalâ€“thermoplastic urethane hybrids in environmental exposure. International Journal of Adhesion and Adhesives, 2012, 35, 21-26.	2.9	12
78	Development of Barkhausen noise calibration blocks for reliable grinding burn detection. Journal of Materials Processing Technology, 2012, 212, 408-416.	6.3	40
79	Wear Reducing Effect of Embedded Quartz Abrasives in Crushing-Pin-on-Disc Procedure. Tribology Online, 2012, 7, 179-183.	0.9	3
80	Proteomic Characterization of Engineered Nanomaterialâ€“Protein Interactions in Relation to Surface Reactivity. ACS Nano, 2011, 5, 4300-4309.	14.6	142
81	Long, Needle-like Carbon Nanotubes and Asbestos Activate the NLRP3 Inflammasome through a Similar Mechanism. ACS Nano, 2011, 5, 6861-6870.	14.6	359
82	Characterization of silane layers on modified stainless steel surfaces and related stainless steelâ€“plastic hybrids. Applied Surface Science, 2011, 257, 9335-9346.	6.1	39
83	Effect of silane treatment parameters on the silane layer formation and bonding to thermoplastic urethane. Progress in Organic Coatings, 2011, 72, 716-723.	3.9	21
84	Aminofunctional silane layers for improved copperâ€“polymer interface adhesion. Journal of Materials Science, 2011, 46, 6618-6626.	3.7	7
85	Aerosol characterization and lung deposition of synthesized TiO2 nanoparticles for murine inhalation studies. Journal of Nanoparticle Research, 2011, 13, 2949-2961.	1.9	9
86	The Effect of Sulphur and Water Treatments on the Performance of Pd/Î²-Zeolite Diesel Oxidation Catalysts. Topics in Catalysis, 2011, 54, 1185-1189.	2.8	3
87	Characterisation of stainless steel surfaces â€“ modified in air at 350Â°C. Surface Engineering, 2011, 27, 325-331.	2.2	7
88	BARKHAUSEN: A study on laser-processed grinding burn simulation and analysis based on Barkhausen noise measurement. Insight: Non-Destructive Testing and Condition Monitoring, 2010, 52, 293-297.	0.6	12
89	Nanotechnologies, engineered nanomaterials and occupational health and safety â€“ A review. Safety Science, 2010, 48, 957-963.	4.9	147
90	The activity of Pt/Al2O3 diesel oxidation catalyst after sulphur and calcium treatments. Catalysis Today, 2010, 154, 303-307.	4.4	34

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91	Airway Exposure to Silica-Coated TiO2 Nanoparticles Induces Pulmonary Neutrophilia in Mice. Toxicological Sciences, 2010, 113, 422-433.	3.1	140
92	Characterisation of case-hardened gear steel by multiparameter Barkhausen noise measurements. Insight: Non-Destructive Testing and Condition Monitoring, 2009, 51, 212-216.	0.6	9
93	Influence of thermal treatment conditions on the formation of phase-pure mullite derived from a nanoparticulate aluminosilicate precursor. Materials Chemistry and Physics, 2009, 115, 56-64.	4.0	15
94	The Effect of SO2 and H2O on the Activity of Pd/CeO2 and Pd/Zrâ€"CeO2 Diesel Oxidation Catalysts. Topics in Catalysis, 2009, 52, 2025-2028.	2.8	16
95	Preparation of nanoparticle dispersions for in-vitro toxicity testing. Human and Experimental Toxicology, 2009, 28, 377-385.	2.2	47
96	Genotoxic effects of nanosized and fine TiO2. Human and Experimental Toxicology, 2009, 28, 339-352.	2.2	194
97	Genotoxicity of nanomaterials: DNA damage and micronuclei induced by carbon nanotubes and graphite nanofibres in human bronchial epithelial cells in vitro. Toxicology Letters, 2009, 186, 166-173.	0.8	259
98	Metalâ€"Plastic Adhesion in Injection-Molded Hybrids. Journal of Adhesion Science and Technology, 2009, 23, 1747-1761.	2.6	47
99	Optimized dispersion of nanoparticles for biological in vitro and in vivo studies. Particle and Fibre Toxicology, 2008, 5, 14.	6.2	391
100	Influence of the elementary mixing scale on HVOF-sprayed coatings derived from nanostructured aluminosilicate/mullite feedstock. Surface and Coatings Technology, 2008, 203, 335-344.	4.8	4
101	Oxidation of copper alloys studied by analytical transmission electron microscopy cross-sectional specimens. Journal of Materials Research, 2008, 23, 1350-1357.	2.6	14
102	Structural changes in air aged and poisoned diesel catalysts. Topics in Catalysis, 2007, 45, 137-142.	2.8	11
103	Characterization of phosphorus poisoning on diesel exhaust gas catalyst components containing oxide and Pt. Topics in Catalysis, 2007, 45, 153-157.	2.8	8
104	Low temperature oxidation of copper alloysâ€"AEM and AFM characterization. Journal of Materials Science, 2007, 42, 4684-4691.	3.7	16
105	Solâ€"gel derived aluminosilicate coatings on alumina as substrate for osteoblasts. Acta Biomaterialia, 2006, 2, 659-668.	8.3	24
106	Collection of liquid flame spray generated TiO2 nanoparticles on stainless steel surface. Materials Letters, 2006, 60, 530-534.	2.6	19
107	Generation of silver/palladium nanoparticles by liquid flame spray. Journal of Materials Research, 2004, 19, 1544-1550.	2.6	34
108	The effect of Pt?Rh synergism on the thermal stability of rhodium oxide on pure alumina and Ce?ZrO2-modified alumina-supported catalysts. Journal of Catalysis, 2004, 226, 372-381.	6.2	24

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109	Characterization of Modified Thick Thermal Barrier Coatings. Journal of Thermal Spray Technology, 2004, 13, 361-369.	3.1	29
110	Modified thick thermal barrier coatings: microstructural characterization. Journal of the European Ceramic Society, 2004, 24, 2247-2258.	5.7	52
111	The effect of platinum on the reducibility of Rh oxides on Ceï£¿Zr modified alumina supported automotive catalysts. Surface and Interface Analysis, 2004, 36, 741-744.	1.8	11
112	AEM study of aluminum phosphate sealed plasma sprayed Al2O3 and Cr2O3 coatings. Journal of Materials Science Letters, 2003, 22, 463-466.	0.5	8
113	Aluminum phosphate sealed alumina coating: characterization of microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 323, 1-8.	5.6	71
114	Thermal analysis of plasma sprayed oxide coatings sealed with aluminium phosphate. Journal of the European Ceramic Society, 2002, 22, 1937-1946.	5.7	41
115	Residual stresses in aluminium phosphate sealed plasma sprayed oxide coatings and their effect on abrasive wear. Wear, 2002, 252, 614-623.	3.1	36
116	Microstructural Study of Aluminum Phosphate-Sealed, Plasma-Sprayed Chromium Oxide Coating. Journal of Thermal Spray Technology, 2002, 11, 253-260.	3.1	19
117	Structural Characterization of Aluminum Phosphate Binder. Journal of the American Ceramic Society, 2000, 83, 1834-1836.	3.8	44
118	Wear and corrosion properties of plasma sprayed Al2O3 and Cr2O3 coatings sealed by aluminum phosphates. Journal of Thermal Spray Technology, 1997, 6, 205-210.	3.1	70
119	An Attempt to Find an Empirical Model between Barkhausen Noise and Stress. Materials Science Forum, 0, 768-769, 209-216.	0.3	3
120	The Characterization of Flame Cut Heavy Steel â€“ The Residual Stress Profiling of Heat Affected Surface Layer. Key Engineering Materials, 0, 674, 103-108.	0.4	5