

# Minnamari Vippola

## List of Publications by Year in descending order

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120  
papers

4,246  
citations

126708

33  
h-index

123241

61  
g-index

123  
all docs

123  
docs citations

123  
times ranked

5619  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized dispersion of nanoparticles for biological in vitro and in vivo studies. <i>Particle and Fibre Toxicology</i> , 2008, 5, 14.	2.8	391
2	Long, Needle-like Carbon Nanotubes and Asbestos Activate the NLRP3 Inflammasome through a Similar Mechanism. <i>ACS Nano</i> , 2011, 5, 6861-6870.	7.3	359
3	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, 166-173.	0.4	259
4	Genotoxic effects of nanosized and fine TiO <sub>2</sub> . <i>Human and Experimental Toxicology</i> , 2009, 28, 339-352.	1.1	194
5	Nanotechnologies, engineered nanomaterials and occupational health and safety – A review. <i>Safety Science</i> , 2010, 48, 957-963.	2.6	147
6	Proteomic Characterization of Engineered Nanomaterial-Protein Interactions in Relation to Surface Reactivity. <i>ACS Nano</i> , 2011, 5, 4300-4309.	7.3	142
7	Airway Exposure to Silica-Coated TiO <sub>2</sub> Nanoparticles Induces Pulmonary Neutrophilia in Mice. <i>Toxicological Sciences</i> , 2010, 113, 422-433.	1.4	140
8	A comprehensive review of the photopolymerization of ceramic resins used in stereolithography. <i>Additive Manufacturing</i> , 2020, 35, 101177.	1.7	133
9	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.	2.8	103
10	Genotoxicity of polyvinylpyrrolidone-coated silver nanoparticles in BEAS 2B cells. <i>Toxicology</i> , 2013, 313, 38-48.	2.0	96
11	Inhalation of rod-like carbon nanotubes causes unconventional allergic airway inflammation. <i>Particle and Fibre Toxicology</i> , 2014, 11, 48.	2.8	83
12	Aluminum phosphate sealed alumina coating: characterization of microstructure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 323, 1-8.	2.6	71
13	Wear and corrosion properties of plasma sprayed Al <sub>2</sub> O <sub>3</sub> and Cr <sub>2</sub> O <sub>3</sub> coatings sealed by aluminum phosphates. <i>Journal of Thermal Spray Technology</i> , 1997, 6, 205-210.	1.6	70
14	Vibration damping properties of steel/rubber/composite hybrid structures. <i>Composite Structures</i> , 2012, 94, 3327-3335.	3.1	63
15	Utilization of Barkhausen noise magnetizing sweeps for case-depth detection from hardened steel. <i>NDT and E International</i> , 2012, 52, 95-102.	1.7	60
16	Corrosion products of carbonation induced corrosion in existing reinforced concrete facades. <i>Cement and Concrete Research</i> , 2015, 78, 200-207.	4.6	55
17	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, 140-155.	1.4	53
18	Properties of HVOF-sprayed Stellite-6 coatings. <i>Surface and Coatings Technology</i> , 2018, 338, 45-62.	2.2	53

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19	Modified thick thermal barrier coatings: microstructural characterization. <i>Journal of the European Ceramic Society</i> , 2004, 24, 2247-2258.	2.8	52
20	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.	2.8	49
21	Preparation of nanoparticle dispersions for in-vitro toxicity testing. <i>Human and Experimental Toxicology</i> , 2009, 28, 377-385.	1.1	47
22	Metal-Plastic Adhesion in Injection-Molded Hybrids. <i>Journal of Adhesion Science and Technology</i> , 2009, 23, 1747-1761.	1.4	47
23	A Study of Cr <sub>3</sub> C <sub>2</sub> -Based HVOF- and HVOF-Sprayed Coatings: Microstructure and Carbide Retention. <i>Journal of Thermal Spray Technology</i> , 2017, 26, 1239-1256.	1.6	45
24	Structural Characterization of Aluminum Phosphate Binder. <i>Journal of the American Ceramic Society</i> , 2000, 83, 1834-1836.	1.9	44
25	Impact properties of novel corrosion resistant hybrid structures. <i>Composite Structures</i> , 2014, 108, 886-893.	3.1	42
26	Thermal analysis of plasma sprayed oxide coatings sealed with aluminium phosphate. <i>Journal of the European Ceramic Society</i> , 2002, 22, 1937-1946.	2.8	41
27	Regeneration of sulfur-poisoned Pd-based catalyst for natural gas oxidation. <i>Journal of Catalysis</i> , 2018, 358, 253-265.	3.1	41
28	Development of Barkhausen noise calibration blocks for reliable grinding burn detection. <i>Journal of Materials Processing Technology</i> , 2012, 212, 408-416.	3.1	40
29	Characterization of silane layers on modified stainless steel surfaces and related stainless steel-plastic hybrids. <i>Applied Surface Science</i> , 2011, 257, 9335-9346.	3.1	39
30	Induction of chromosomal aberrations by carbon nanotubes and titanium dioxide nanoparticles in human lymphocytes <i>in vitro</i> . <i>Nanotoxicology</i> , 2012, 6, 825-836.	1.6	38
31	Superamphiphobic overhang structured coating on a biobased material. <i>Applied Surface Science</i> , 2016, 389, 135-143.	3.1	38
32	Residual stresses in aluminium phosphate sealed plasma sprayed oxide coatings and their effect on abrasive wear. <i>Wear</i> , 2002, 252, 614-623.	1.5	36
33	Generation of silver/palladium nanoparticles by liquid flame spray. <i>Journal of Materials Research</i> , 2004, 19, 1544-1550.	1.2	34
34	The activity of Pt/Al <sub>2</sub> O <sub>3</sub> diesel oxidation catalyst after sulphur and calcium treatments. <i>Catalysis Today</i> , 2010, 154, 303-307.	2.2	34
35	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.	1.3	33
36	Effect of Shot Peening Parameters to Residual Stress Profiles and Barkhausen Noise. <i>Journal of Nondestructive Evaluation</i> , 2018, 37, 1.	1.1	30

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37	Characterization of Modified Thick Thermal Barrier Coatings. <i>Journal of Thermal Spray Technology</i> , 2004, 13, 361-369.	1.6	29
38	A secretomics analysis reveals major differences in the macrophage responses towards different types of carbon nanotubes. <i>Nanotoxicology</i> , 2015, 9, 719-728.	1.6	29
39	An Efficient Procedure for Identifying the Prediction Model Between Residual Stress and Barkhausen Noise. <i>Journal of Nondestructive Evaluation</i> , 2013, 32, 341-349.	1.1	27
40	Structural Characteristics of Natural-Gas-Vehicle-Aged Oxidation Catalyst. <i>Topics in Catalysis</i> , 2013, 56, 576-585.	1.3	27
41	Pulmonary toxicity of Fe <sub>2</sub> O <sub>3</sub> , ZnFe <sub>2</sub> O <sub>4</sub> , NiFe <sub>2</sub> O <sub>4</sub> and NiZnFe <sub>4</sub> O <sub>8</sub> nanomaterials: Inflammation and DNA strand breaks. <i>Environmental Toxicology and Pharmacology</i> , 2020, 74, 103303.	2.0	27
42	Insight to Nanoparticle Size Analysis – Novel and Convenient Image Analysis Method Versus Conventional Techniques. <i>Nanoscale Research Letters</i> , 2016, 11, 169.	3.1	26
43	The formation and characterization of fretting-induced degradation layers using quenched and tempered steel. <i>Tribology International</i> , 2019, 131, 258-267.	3.0	26
44	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.	0.8	25
45	The effect of Pt/Rh synergism on the thermal stability of rhodium oxide on pure alumina and Ce/ZrO <sub>2</sub> -modified alumina-supported catalysts. <i>Journal of Catalysis</i> , 2004, 226, 372-381.	3.1	24
46	Sol-gel derived aluminosilicate coatings on alumina as substrate for osteoblasts. <i>Acta Biomaterialia</i> , 2006, 2, 659-668.	4.1	24
47	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.	10.8	24
48	Ageing of corrosion resistant steel/rubber/composite hybrid structures. <i>International Journal of Adhesion and Adhesives</i> , 2014, 49, 26-32.	1.4	23
49	Barkhausen Noise Probes and Modelling: A Review. <i>Journal of Nondestructive Evaluation</i> , 2019, 38, 1.	1.1	23
50	Additive Manufactured 316L Stainless-Steel Samples: Microstructure, Residual Stress and Corrosion Characteristics after Post-Processing. <i>Metals</i> , 2021, 11, 182.	1.0	23
51	Aligned Poly( $\epsilon$ -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.	2.1	22
52	Characterization of cracks formed in large flat-on-flat fretting contact. <i>International Journal of Fatigue</i> , 2019, 124, 361-370.	2.8	22
53	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.	1.9	21
54	Hydrothermal carbonization of pulp mill streams. <i>Bioresource Technology</i> , 2016, 212, 236-244.	4.8	20

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55	Deactivation of Pt/SiO <sub>2</sub> -ZrO <sub>2</sub> diesel oxidation catalysts by sulphur, phosphorus and their combinations. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 409-419.	10.8	20
56	Microstructural Study of Aluminum Phosphate-Sealed, Plasma-Sprayed Chromium Oxide Coating. <i>Journal of Thermal Spray Technology</i> , 2002, 11, 253-260.	1.6	19
57	Collection of liquid flame spray generated TiO <sub>2</sub> nanoparticles on stainless steel surface. <i>Materials Letters</i> , 2006, 60, 530-534.	1.3	19
58	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.	1.7	17
59	Adhesion properties of novel corrosion resistant hybrid structures. <i>International Journal of Adhesion and Adhesives</i> , 2014, 49, 51-57.	1.4	17
60	Barkhausen noise-magnetizing voltage sweep measurement in evaluation of residual stress in hardened components. <i>Measurement Science and Technology</i> , 2014, 25, 085602.	1.4	17
61	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.	1.3	17
62	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.	0.9	17
63	Low temperature oxidation of copper alloys—AEM and AFM characterization. <i>Journal of Materials Science</i> , 2007, 42, 4684-4691.	1.7	16
64	The Effect of SO <sub>2</sub> and H <sub>2</sub> O on the Activity of Pd/CeO <sub>2</sub> and Pd/Zr—CeO <sub>2</sub> Diesel Oxidation Catalysts. <i>Topics in Catalysis</i> , 2009, 52, 2025-2028.	1.3	16
65	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.	2.0	15
66	Carbon-based nanomaterials accelerate arteriolar thrombus formation in the murine microcirculation independently of their shape. <i>Journal of Applied Toxicology</i> , 2014, 34, 1167-1176.	1.4	15
67	The Effect of Severe Shot Peening on Fatigue Life of Laser Powder Bed Fusion Manufactured 316L Stainless Steel. <i>Materials</i> , 2022, 15, 3517.	1.3	15
68	Oxidation of copper alloys studied by analytical transmission electron microscopy cross-sectional specimens. <i>Journal of Materials Research</i> , 2008, 23, 1350-1357.	1.2	14
69	Optimized laser processing of calibration blocks for grinding burn detection with Barkhausen noise. <i>Journal of Materials Processing Technology</i> , 2012, 212, 2282-2293.	3.1	14
70	Deactivation of Diesel Oxidation Catalysts by Sulphur in Laboratory and Engine-Bench Scale Aging. <i>Topics in Catalysis</i> , 2013, 56, 672-678.	1.3	14
71	Geometry Analysis in Screen-Printed Stretchable Interconnects. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018, 8, 1344-1352.	1.4	13
72	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.	3.8	13

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73	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.	0.3	12
74	Metal-thermoplastic urethane hybrids in environmental exposure. <i>International Journal of Adhesion and Adhesives</i> , 2012, 35, 21-26.	1.4	12
75	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.	1.3	12
76	The effect of platinum on the reducibility of Rh oxides on Ce $\gamma$ Zr modified alumina supported automotive catalysts. <i>Surface and Interface Analysis</i> , 2004, 36, 741-744.	0.8	11
77	Structural changes in air aged and poisoned diesel catalysts. <i>Topics in Catalysis</i> , 2007, 45, 137-142.	1.3	11
78	Microstructural Characteristics of Vehicle-Aged Heavy-Duty Diesel Oxidation Catalyst and Natural Gas Three-Way Catalyst. <i>Catalysts</i> , 2019, 9, 137.	1.6	11
79	Cracks and degradation layers in large flat-on-flat fretting contact with steels and cast iron. <i>Tribology International</i> , 2020, 145, 106102.	3.0	11
80	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.	0.3	10
81	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.	3.1	10
82	Case Depth Prediction of Nitrided Samples with Barkhausen Noise Measurement. <i>Metals</i> , 2019, 9, 325.	1.0	10
83	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.	1.7	10
84	Automated Ultrasound-based Inspection of Rails: Review. <i>International Journal of Railway</i> , 2017, 10, 21-29.	0.2	10
85	Characterisation of case-hardened gear steel by multiparameter Barkhausen noise measurements. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2009, 51, 212-216.	0.3	9
86	Aerosol characterization and lung deposition of synthesized TiO <sub>2</sub> nanoparticles for murine inhalation studies. <i>Journal of Nanoparticle Research</i> , 2011, 13, 2949-2961.	0.8	9
87	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.	3.1	9
88	Statistical Evaluation of Barkhausen Noise Testing (BNT) for Ground Samples. <i>Sensors</i> , 2019, 19, 4716.	2.1	9
89	Characterization of Pt-based oxidation catalyst - Deactivated simultaneously by sulfur and phosphorus. <i>Journal of Catalysis</i> , 2021, 397, 183-191.	3.1	9
90	AEM study of aluminum phosphate sealed plasma sprayed Al <sub>2</sub> O <sub>3</sub> and Cr <sub>2</sub> O <sub>3</sub> coatings. <i>Journal of Materials Science Letters</i> , 2003, 22, 463-466.	0.5	8

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91	Characterization of phosphorus poisoning on diesel exhaust gas catalyst components containing oxide and Pt. Topics in Catalysis, 2007, 45, 153-157.	1.3	8
92	Utilization of frequency-domain information of Barkhausen noise signal in quantitative prediction of material properties. AIP Conference Proceedings, 2014, , .	0.3	8
93	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.	1.0	8
94	Aminofunctional silane layers for improved copper-polymer interface adhesion. Journal of Materials Science, 2011, 46, 6618-6626.	1.7	7
95	Characterisation of stainless steel surfaces modified in air at 350°C. Surface Engineering, 2011, 27, 325-331.	1.1	7
96	Characterisation of novel regenerated cellulosic, viscose, and cotton fibres and the dyeing properties of fabrics. Coloration Technology, 2015, 131, 396-402.	0.7	7
97	Case depth verification of hardened samples with Barkhausen noise sweeps. , 2014, , .		6
98	In vitro platelet activation, aggregation and platelet-granulocyte complex formation induced by surface modified single-walled carbon nanotubes. Toxicology in Vitro, 2015, 29, 1132-1139.	1.1	6
99	The Impact of Sulphur, Phosphorus and their Co-effect on Pt/SiO <sub>2</sub> -ZrO <sub>2</sub> Diesel Oxidation Catalysts. Topics in Catalysis, 2017, 60, 307-311.	1.3	6
100	Prediction of Residual Stresses Using Partial Least Squares Regression on Barkhausen Noise Signals. Journal of Nondestructive Evaluation, 2013, 33, 43.	1.1	5
101	The Characterization of Flame Cut Heavy Steel The Residual Stress Profiling of Heat Affected Surface Layer. Key Engineering Materials, 0, 674, 103-108.	0.4	5
102	Role of Steel Plate Thickness on the Residual Stress Formation and Cracking Behavior During Flame Cutting. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 4178-4192.	1.1	5
103	The effect of inferior turbinate surgery on ciliated epithelium: A randomized, blinded study. Laryngoscope, 2019, 129, 18-24.	1.1	5
104	Influence of the elementary mixing scale on HVOF-sprayed coatings derived from nanostructured aluminosilicate/mullite feedstock. Surface and Coatings Technology, 2008, 203, 335-344.	2.2	4
105	The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst. Topics in Catalysis, 2016, 59, 1044-1048.	1.3	4
106	Cracking and Failure Characteristics of Flame Cut Thick Steel Plates. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 1744-1754.	1.1	4
107	The Effect of Sulphur and Water Treatments on the Performance of Pd/γ-Zeolite Diesel Oxidation Catalysts. Topics in Catalysis, 2011, 54, 1185-1189.	1.3	3
108	An Attempt to Find an Empirical Model between Barkhausen Noise and Stress. Materials Science Forum, 0, 768-769, 209-216.	0.3	3

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109	Coating of Silica and Titania Aerosol Nanoparticles by Silver Vapor Condensation. <i>Aerosol Science and Technology</i> , 2015, 49, 767-776.	1.5	3
110	EFFECT OF ENVIRONMENT ON BROMOBUTYL RUBBER'S STEEL ADHESION. <i>Rubber Chemistry and Technology</i> , 2020, 93, 429-444.	0.6	3
111	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.	0.7	3

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