

# Stefano Gialanella

## List of Publications by Year in descending order

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42  
papers

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304368

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329751

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43  
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43  
docs citations

43  
times ranked

876  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of ultrafine particles from hardfacing coated brake rotors. <i>Friction</i> , 2023, 11, 125-140.	3.4	3
2	The Role of Graphitic Carbon Nitride in the Formulation of Copper-Free Friction Composites Designed for Automotive Brake Pads. <i>Metals</i> , 2022, 12, 123.	1.0	8
3	Dry Sliding Behavior and Particulate Emissions of a SiC-graphite Composite Friction Material Paired with HVOF-Coated Counterface. <i>Atmosphere</i> , 2022, 13, 296.	1.0	9
4	Microstructural and Tribological Evaluation of Brake Disc Refurbishing Using Fe-Based Coating via Directed Energy Deposition. <i>Metals</i> , 2022, 12, 465.	1.0	3
5	Pin-on-disc study of dry sliding behavior of Co-free HVOF-coated disc tested against different friction materials. <i>Friction</i> , 2021, 9, 1242-1258.	3.4	9
6	Laser Cladding Treatment for Refurbishing Disc Brake Rotors: Environmental and Tribological Analysis. <i>Tribology Letters</i> , 2021, 69, 1.	1.2	12
7	Airborne particulate matter from brake systems: An assessment of the relevant tribological formation mechanisms. <i>Wear</i> , 2021, 478-479, 203883.	1.5	10
8	A new sample preparation protocol for SEM and TEM particulate matter analysis. <i>Ultramicroscopy</i> , 2021, 230, 113365.	0.8	6
9	Characterization of airborne wear debris produced by brake pads pressed against HVOF-coated discs. <i>Friction</i> , 2020, 8, 421-432.	3.4	28
10	Friction, wear and airborne particle emission from Cu-free brake materials. <i>Tribology International</i> , 2020, 141, 105959.	3.0	50
11	A pin-on-disc study on the dry sliding behavior of a Cu-free friction material containing different types of natural graphite. <i>Wear</i> , 2020, 442-443, 203157.	1.5	28
12	Experimental Characterization Protocols for Wear Products from Disc Brake Materials. <i>Atmosphere</i> , 2020, 11, 1102.	1.0	29
13	The role of scorching treatment on the wear and emission behavior of friction materials with and without copper. <i>Wear</i> , 2020, 460-461, 203480.	1.5	8
14	Sliding Behavior and Particle Emissions of Cu-Free Friction Materials with Different Contents of Phenolic Resin. <i>Tribology Transactions</i> , 2020, 63, 770-779.	1.1	14
15	A Study of the Effect of Brake Pad Scorching on Tribology and Airborne Particle Emissions. <i>Atmosphere</i> , 2020, 11, 488.	1.0	10
16	A combined experimental approach to the study of ancient coins and its application the Venetian <i>â€œsesinoâ€</i> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 455, 108-113.	0.6	2
17	A critical comparison of dynamometer data with pin-on-disc data for the same two friction material pairs <i>â€œA case study</i> . <i>Wear</i> , 2019, 424-425, 40-47.	1.5	24
18	Thermal behavior of a phenolic resin for brake pad manufacturing. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 759-766.	2.0	28

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19	Characterization of the <i>mistura</i> alloy used for Venetian <i>sesino</i> coins: 16th century. X-Ray Spectrometry, 2019, 48, 8-20.	0.9	3
20	Sliding Behaviour of Friction Material Against Cermet Coatings: Pin-on-Disc Study of the Running-in Stage. Tribology Letters, 2018, 66, 1.	1.2	22
21	Mineralogical investigations using XRD, XRF, and Raman spectroscopy in a combined approach. Journal of Raman Spectroscopy, 2018, 49, 1023-1030.	1.2	20
22	Dry sliding behavior and friction layer formation in copper-free barite containing friction materials. Wear, 2018, 398-399, 191-200.	1.5	71
23	A concept for reducing PM 10 emissions for car brakes by 50%. Wear, 2018, 396-397, 135-145.	1.5	68
24	Pin-on-disc investigation on copper-free friction materials dry sliding against cast iron. Tribology International, 2018, 119, 73-81.	3.0	57
25	A preliminary investigation on the use of the pin-on-disc test to simulate off-brake friction and wear characteristics of friction materials. Wear, 2018, 410-411, 202-209.	1.5	41
26	Dry sliding of a low steel friction material against cast iron at different loads: Characterization of the friction layer and wear debris. Wear, 2017, 376-377, 1450-1459.	1.5	56
27	Pin-on-disc study of a friction material dry sliding against HVOF coated discs at room temperature and 300°C. Tribology International, 2017, 115, 89-99.	3.0	50
28	Room-Temperature Crystallization of CuS Nanostructures for Photothermal Applications through a Nanoreactor Approach. European Journal of Inorganic Chemistry, 2017, 2017, 2745-2754.	1.0	8
29	Pin-on-Disc Testing of Low-Metallic Friction Material Sliding Against HVOF Coated Cast Iron: Modelling of the Contact Temperature Evolution. Tribology Letters, 2017, 65, 1.	1.2	38
30	Pin-on-disc study of brake friction materials with ball-milled nanostructured components. Materials and Design, 2017, 115, 287-298.	3.3	48
31	Wear and Contact Temperature Evolution in Pin-on-Disc Tribotesting of Low-Metallic Friction Material Sliding Against Pearlitic Cast Iron. Tribology Letters, 2016, 62, 1.	1.2	41
32	Effect of roughness on the wear behavior of HVOF coatings dry sliding against a friction material. Wear, 2016, 368-369, 326-334.	1.5	78
33	Combined X-ray diffraction and fluorescence analysis in the cultural heritage field. Microchemical Journal, 2016, 126, 423-430.	2.3	15
34	Role of the friction layer in the high-temperature pin-on-disc study of a brake material. Wear, 2016, 346-347, 56-65.	1.5	124
35	Wear debris from brake system materials: A multi-analytical characterization approach. Tribology International, 2016, 94, 249-259.	3.0	48
36	An Effective Two-Emulsion Approach to the Synthesis of Doped ZnS Crystalline Nanostructures. European Journal of Inorganic Chemistry, 2015, 2015, 706-714.	1.0	13

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37	Present knowledge and perspectives on the role of copper in brake materials and related environmental issues: A critical assessment. <i>Environmental Pollution</i> , 2015, 207, 211-219.	3.7	95
38	Braking pad-disc system: Wear mechanisms and formation of wear fragments. <i>Wear</i> , 2015, 322-323, 251-258.	1.5	144
39	Review: use of conifer needles as passive samplers of inorganic pollutants in air quality monitoring. <i>Analytical Methods</i> , 2014, 6, 6208.	1.3	25
40	Wear debris materials from brake systems: environmental and health issues. <i>WIT Transactions on Ecology and the Environment</i> , 2014, , .	0.0	24
41	Inorganic chemistry in a nanoreactor: Au/TiO <sub>2</sub> nanocomposites by photolysis of a single-source precursor in miniemulsion. <i>Nanoscale</i> , 2013, 5, 10534.	2.8	21
42	Miniemulsions as chemical nanoreactors for the room temperature synthesis of inorganic crystalline nanostructures: ZnO colloids. <i>Journal of Materials Chemistry</i> , 2012, 22, 1620-1626.	6.7	40