

Federico Cesano

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

2,781
citations

126858

33
h-index

189801

50
g-index

91
all docs

91
docs citations

91
times ranked

3905
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Photoactive TiO ₂ films on cellulose fibres: synthesis and characterization. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 189, 286-294. | 2.0 | 221 |
| 2 | Cotton textile fibres coated by Au/TiO ₂ films: Synthesis, characterization and self cleaning properties. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 199, 64-72. | 2.0 | 140 |
| 3 | Thickness of Multiwalled Carbon Nanotubes Affects Their Lung Toxicity. Chemical Research in Toxicology, 2012, 25, 74-82. | 1.7 | 105 |
| 4 | In situ, Cr K-edge XAS study on the Phillips catalyst: activation and ethylene polymerization. Journal of Catalysis, 2005, 230, 98-108. | 3.1 | 102 |
| 5 | Optical, Vibrational, and Structural Properties of MoS ₂ Nanoparticles Obtained by Exfoliation and Fragmentation via Ultrasound Cavitation in Isopropyl Alcohol. Journal of Physical Chemistry C, 2015, 119, 3791-3801. | 1.5 | 97 |
| 6 | Carbon-based piezoresistive polymer composites: Structure and electrical properties. Carbon, 2013, 62, 270-277. | 5.4 | 93 |
| 7 | Furfuryl Alcohol Polymerization in H ₂ O Confined Spaces: Reaction Mechanism and Structure of Carbocationic Intermediates. Journal of Physical Chemistry B, 2008, 112, 2580-2589. | 1.2 | 84 |
| 8 | Model oxide supported MoS ₂ HDS catalysts: structure and surface properties. Catalysis Science and Technology, 2011, 1, 123. | 2.1 | 81 |
| 9 | The Role of Iron Impurities in the Toxic Effects Exerted by Short Multiwalled Carbon Nanotubes (MWCNT) in Murine Alveolar Macrophages. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2013, 76, 1056-1071. | 1.1 | 81 |
| 10 | ZnO Nanostructures Application in Electrochemistry: Influence of Morphology. Journal of Physical Chemistry C, 2021, 125, 1472-1482. | 1.5 | 71 |
| 11 | Synthesis of ZnO-carbon composites and imprinted carbon by the pyrolysis of ZnCl ₂ -catalyzed furfuryl alcohol polymers. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 196, 143-153. | 2.0 | 66 |
| 12 | Multi-walled carbon nanotubes directly induce epithelial-mesenchymal transition in human bronchial epithelial cells via the TGF- β -mediated Akt/GSK-3 β /SNAIL-1 signalling pathway. Particle and Fibre Toxicology, 2015, 13, 27. | 2.8 | 65 |
| 13 | Association of polyalanine and polyglutamine coiled coils mediates expansion disease-related protein aggregation and dysfunction. Human Molecular Genetics, 2014, 23, 3402-3420. | 1.4 | 62 |
| 14 | Micro-FTIR and Micro-Raman Studies of a Carbon Film Prepared from Furfuryl Alcohol Polymerization. Journal of Physical Chemistry B, 2009, 113, 10571-10574. | 1.2 | 56 |
| 15 | Chitosan-Derived Iron Oxide Systems for Magnetically Guided and Efficient Water Purification Processes from Polycyclic Aromatic Hydrocarbons. ACS Sustainable Chemistry and Engineering, 2017, 5, 793-801. | 3.2 | 56 |
| 16 | MoS ₂ Nanoparticles Decorating Titanate-Nanotube Surfaces: Combined Microscopy, Spectroscopy, and Catalytic Studies. Langmuir, 2015, 31, 5469-5478. | 1.6 | 55 |
| 17 | One-step synthesis of magnetic chitosan polymer composite films. Applied Surface Science, 2015, 345, 175-181. | 3.1 | 55 |
| 18 | Designing TiO ₂ Based Nanostructures by Control of Surface Morphology of Pure and Silver Loaded Titanate Nanotubes. Journal of Physical Chemistry C, 2010, 114, 169-178. | 1.5 | 54 |

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|----|---|------|-----------|
| 19 | Sulfur-Doped TiO ₂ : Structure and Surface Properties. <i>Catalysts</i> , 2017, 7, 214. | 1.6 | 51 |
| 20 | Magnetic Materials and Systems: Domain Structure Visualization and Other Characterization Techniques for the Application in the Materials Science and Biomedicine. <i>Inorganics</i> , 2020, 8, 6. | 1.2 | 46 |
| 21 | From biowaste to magnet-responsive materials for water remediation from polycyclic aromatic hydrocarbons. <i>Chemosphere</i> , 2018, 202, 686-693. | 4.2 | 44 |
| 22 | Biowaste-derived substances as a tool for obtaining magnet-sensitive materials for environmental applications in wastewater treatments. <i>Chemical Engineering Journal</i> , 2017, 310, 307-316. | 6.6 | 42 |
| 23 | Designing rGO/MoS ₂ hybrid nanostructures for photocatalytic applications. <i>RSC Advances</i> , 2016, 6, 59001-59008. | 1.7 | 40 |
| 24 | Connecting Carbon Fibers by Means of Catalytically Grown Nanofilaments: Formation of Carbon-Carbon Composites. <i>Chemistry of Materials</i> , 2005, 17, 5119-5123. | 3.2 | 39 |
| 25 | Oriented TiO ₂ Nanostructured Pillar Arrays: Synthesis and Characterization. <i>Advanced Materials</i> , 2008, 20, 3342-3348. | 11.1 | 38 |
| 26 | Tailoring the activity of Ti-based photocatalysts by playing with surface morphology and silver doping. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 196, 165-173. | 2.0 | 38 |
| 27 | On the fraction of CrII sites involved in the C ₂ H ₄ polymerization on the Cr/SiO ₂ Phillips catalyst: a quantification by FTIR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2453. | 1.3 | 36 |
| 28 | Preparation and adsorption properties of activated porous carbons obtained using volatile zinc templating phases. <i>Carbon</i> , 2012, 50, 2047-2051. | 5.4 | 35 |
| 29 | Graphite nanoplatelets and carbon nanotubes based polyethylene composites: Electrical conductivity and morphology. <i>Materials Chemistry and Physics</i> , 2013, 143, 47-52. | 2.0 | 35 |
| 30 | A high efficiency 3D photovoltaic microwire with carbon nanotubes (CNT)-quantum dot (QD) hybrid interface. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 898-903. | 1.2 | 35 |
| 31 | Multicomponent nanostructured materials and interfaces for efficient piezoelectricity. <i>Nano Structures Nano Objects</i> , 2019, 17, 148-184. | 1.9 | 35 |
| 32 | Imaging polycrystalline and smooth MgO surfaces with atomic force microscopy: a case study of high resolution image on a polycrystalline oxide. <i>Surface Science</i> , 2004, 570, 155-166. | 0.8 | 34 |
| 33 | Radially organized pillars in TiO ₂ and in TiO ₂ /C microspheres: Synthesis, characterization and photocatalytic tests. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 242, 51-58. | 2.0 | 34 |
| 34 | Structure and properties of metal-free conductive tracks on polyethylene/multiwalled carbon nanotube composites as obtained by laser stimulated percolation. <i>Carbon</i> , 2013, 61, 63-71. | 5.4 | 34 |
| 35 | Rapid purification/oxidation of multi-walled carbon nanotubes under 300 kHz-ultrasound and microwave irradiation. <i>New Journal of Chemistry</i> , 2011, 35, 915. | 1.4 | 31 |
| 36 | Surface Structure and Phase Composition of TiO ₂ P25 Particles After Thermal Treatments and HF Etching. <i>Frontiers in Materials</i> , 2020, 7, . | 1.2 | 31 |

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|----|--|-----|-----------|
| 37 | Early Alterations of Hippocampal Neuronal Firing Induced by Abeta42. <i>Cerebral Cortex</i> , 2018, 28, 433-446. | 1.6 | 30 |
| 38 | All-Carbon Conductors for Electronic and Electrical Wiring Applications. <i>Frontiers in Materials</i> , 2020, 7, . | 1.2 | 30 |
| 39 | Relationship between morphology and electrical properties in PP/MWCNT composites: Processing-induced anisotropic percolation threshold. <i>Materials Chemistry and Physics</i> , 2016, 180, 284-290. | 2.0 | 27 |
| 40 | Carbon Domains on MoS ₂ /TiO ₂ System via Catalytic Acetylene Oligomerization: Synthesis, Structure, and Surface Properties. <i>Frontiers in Chemistry</i> , 2017, 5, 91. | 1.8 | 25 |
| 41 | Development of a multifunctional TiO ₂ /MWCNT hybrid composite grafted on a stainless steel grating. <i>RSC Advances</i> , 2015, 5, 103255-103264. | 1.7 | 24 |

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|----|--|------|-----------|
| 55 | Molecules and heterostructures at TiO ₂ surface: the cases of H ₂ O, CO ₂ , and organic and inorganic sensitizers. <i>Research on Chemical Intermediates</i> , 2019, 45, 5801-5829. | 1.3 | 14 |
| 56 | Effect of Injection Molding Conditions on Crystalline Structure and Electrical Resistivity of PP/MWCNT Nanocomposites. <i>Polymers</i> , 2020, 12, 1685. | 2.0 | 14 |
| 57 | Multifunctional Conductive Paths Obtained by Laser Processing of Non-Conductive Carbon Nanotube/Polypropylene Composites. <i>Nanomaterials</i> , 2021, 11, 604. | 1.9 | 14 |
| 58 | Nanocrystalline TiO ₂ micropillar arrays grafted on conductive glass supports: microscopic and spectroscopic studies. <i>Thin Solid Films</i> , 2015, 590, 200-206. | 0.8 | 12 |
| 59 | Designing of carbon nanofilaments-based composites for innovative applications. <i>Diamond and Related Materials</i> , 2009, 18, 979-983. | 1.8 | 11 |
| 60 | From Polymer to Magnetic Porous Carbon Spheres: Combined Microscopy, Spectroscopy, and Porosity Studies. <i>Frontiers in Materials</i> , 2019, 6, . | 1.2 | 11 |
| 61 | Polyethylene Microtubes from Silica Fiber-based Polyethylene Composites Synthesized by an In Situ Catalytic Method. <i>Advanced Materials</i> , 2006, 18, 3111-3114. | 11.1 | 10 |
| 62 | CHAPTER 4. Raman, IR and INS Characterization of Functionalized Carbon Materials. <i>RSC Catalysis Series</i> , 2018, , 103-137. | 0.1 | 10 |
| 63 | Glucan particles loaded with a NIRF agent for imaging monocytes/macrophages recruitment in a mouse model of rheumatoid arthritis. <i>RSC Advances</i> , 2015, 5, 34078-34087. | 1.7 | 9 |
| 64 | Graphene and Other 2D Layered Hybrid Nanomaterial-Based Films: Synthesis, Properties, and Applications. <i>Coatings</i> , 2018, 8, 419. | 1.2 | 9 |
| 65 | Interplay between Fe-Titanate Nanotube Fragmentation and Catalytic Decomposition of C ₂ H ₄ : Formation of C/TiO ₂ Hybrid Interfaces. <i>Inorganics</i> , 2018, 6, 55. | 1.2 | 8 |
| 66 | Inhibition of catecholamine secretion by iron-rich and iron-deprived multiwalled carbon nanotubes in chromaffin cells. <i>NeuroToxicology</i> , 2013, 39, 84-94. | 1.4 | 7 |
| 67 | Dispersion of Carbon-Based Materials (CNTs, Graphene) in Polymer Matrices. , 2015, , 43-75. | | 7 |
| 68 | Thermal/Electrical Properties and Texture of Carbon Black PC Polymer Composites near the Electrical Percolation Threshold. <i>Journal of Composites Science</i> , 2021, 5, 212. | 1.4 | 7 |
| 69 | Thermal, Morphological, Electrical Properties and Touch-Sensor Application of Conductive Carbon Black-Filled Polyamide Composites. <i>Nanomaterials</i> , 2021, 11, 3103. | 1.9 | 7 |
| 70 | MoS ₂ Domains on TiO ₂ -Based Nanostructures: Role of Titanate/TiO ₂ Transformation and Sulfur Doping on the Interaction with the Support. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7799-7809. | 1.5 | 5 |
| 71 | Few-Layered MoS ₂ Nanoparticles Covering Anatase TiO ₂ Nanosheets: Comparison between Ex Situ and In Situ Synthesis Approaches. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 143. | 1.3 | 5 |
| 72 | Editorial: Carbon- and Inorganic-Based Nanostructures for Energy Applications. <i>Frontiers in Materials</i> , 2020, 7, . | 1.2 | 4 |

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|----|---|-----|-----------|
| 73 | Graphene and Other 2D Layered Nanomaterials and Hybrid Structures: Synthesis, Properties and Applications. <i>Materials</i> , 2021, 14, 7108. | 1.3 | 4 |
| 74 | Synthesis and characterization of promising biochars for hexavalent chromium removal: application of response surface methodology approach. <i>International Journal of Environmental Science and Technology</i> , 2023, 20, 4111-4126. | 1.8 | 4 |
| 75 | Solid-State Dye Sensitized Optoelectronic Carbon Nanotube-Wires: An Energy Harvesting Damage Sensor With Nanotechnology Approach. , 2012, , . | | 3 |
| 76 | Morphology and electrical properties of injection-molded PP carbon-based nanocomposites. <i>AIP Conference Proceedings</i> , 2017, , . | 0.3 | 3 |
| 77 | Effect of Ag and Au doping on the photocatalytic activity of TiO ₂ supported on textile fibres. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1077, 72001. | 0.1 | 2 |
| 78 | Design, Characterization and Applications of Functional Nanomaterials. <i>Molecules</i> , 2021, 26, 7097. | 1.7 | 2 |
| 79 | Multifunctional Nanomaterials for Energy Applications. <i>Nanomaterials</i> , 2022, 12, 2170. | 1.9 | 2 |
| 80 | Surface Processes in Photocatalytic Reduction of CO ₂ on TiO ₂ -based Materials. <i>Journal of Photocatalysis</i> , 2021, 2, 10-24. | 0.4 | 1 |
| 81 | Back Cover: A high efficiency 3D photovoltaic microwire with carbon nanotubes (CNT)-quantum dot (QD) hybrid interface (Phys. Status Solidi RRL 8/2014). <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, n/a-n/a. | 1.2 | 0 |
| 82 | 12.1 Introduction â€“ C nanotubes. , 2015, , 666-680. | | 0 |
| 83 | 12.4 Metal sulfides nanotubes. , 2015, , 689-690. | | 0 |
| 84 | Smart Tools for Smart Applications: New Insights into Inorganic Magnetic Systems and Materials. <i>Inorganics</i> , 2020, 8, 56. | 1.2 | 0 |
| 85 | Graphene and graphene-oxide for enhancing the photocatalytic properties of materials. , 2021, , 385-396. | | 0 |
| 86 | Preparation and Carbonization of Glucose and Pyromellitic Dianhydride Crosslinked Polymers. <i>Journal of Carbon Research</i> , 2021, 7, 56. | 1.4 | 0 |
| 87 | Carbon-Based Piezoresistive Polymer Composites. <i>Springer Proceedings in Physics</i> , 2015, , 51-73. | 0.1 | 0 |
| 88 | 12.3 Oxides nanotubes. , 2015, , 684-688. | | 0 |
| 89 | 12.5 Surface properties of nanotubes: Conclusions. , 2015, , 691-691. | | 0 |
| 90 | 12.2 BN nanotubes. , 2015, , 681-683. | | 0 |