List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | X-Band microwave characterization of carbon-based nanocomposite material, absorption capability comparison and RAS design simulation. Composites Science and Technology, 2010, 70, 400-409. | 7.8 | 429 |
| 2 | Synthesis and electromagnetic characterization of frequency selective radar absorbing materials using carbon nanopowders. Carbon, 2014, 77, 756-774. | 10.3 | 289 |
| 3 | Electromagnetic shielding performance of carbon foams. Carbon, 2012, 50, 1972-1980. | 10.3 | 268 |
| 4 | Broadband Electromagnetic Absorbers Using Carbon Nanostructure-Based Composites. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2633-2646. | 4.6 | 225 |
| 5 | Electromagnetic characterization and shielding effectiveness of concrete composite reinforced with carbon nanotubes in the mobile phones frequency band. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 188, 119-129. | 3.5 | 103 |
| 6 | Optimization of Multilayer Shields Made of Composite Nanostructured Materials. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 60-69. | 2.2 | 85 |
| 7 | Nanoparticles for solid rocket propulsion. Journal of Physics Condensed Matter, 2006, 18, S1991-S2005. | 1.8 | 84 |
| 8 | Nanostructured composite materials for electromagnetic interference shielding applications. Acta Astronautica, 2011, 69, 747-757. | 3.2 | 83 |
| 9 | Broadband electromagnetic characterization of carbon foam to metal contact. Carbon, 2014, 68, 149-158. | 10.3 | 80 |
| 10 | Ballistic and electromagnetic shielding behaviour of multifunctional Kevlar fiber reinforced epoxy composites modified by carbon nanotubes. Carbon, 2016, 104, 141-156. | 10.3 | 79 |
| 11 | Experimental study of impact resistance in multi-walled carbon nanotube reinforced epoxy. Composite Structures, 2013, 99, 62-68. | 5.8 | 70 |
| 12 | Electromagnetic shielding of thermal protection system for hypersonic vehicles. Acta Astronautica, 2013, 87, 30-39. | 3.2 | 66 |
| 13 | Reduction of satellite electromagnetic scattering by carbon nanostructured multilayers. Acta Astronautica, 2013, 88, 61-73. | 3.2 | 66 |
| 14 | Measurement of Electromagnetic Field Attenuation by Building Walls in the Mobile Phone and Satellite Navigation Frequency Bands. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 698-702. | 4.0 | 60 |
| 15 | Carbon foam electromagnetic mm-wave absorption in reverberation chamber. Carbon, 2019, 144, 63-71. | 10.3 | 57 |
| 16 | Electromagnetic properties of carbon nanotube reinforced concrete composites for frequency selective shielding structures. Construction and Building Materials, 2017, 131, 267-277. | 7.2 | 56 |
| 17 | Matter's Electromagnetic Signature Reproduction by Graded-Dielectric Multilayer Assembly. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2801-2809. | 4.6 | 44 |
| 18 | Determination of the electrical conductivity of carbon/carbon at high microwave frequencies. Carbon, 2013, 54, 76-85. | 10.3 | 42 |

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|----|--|------|-----------|
| 19 | Degradation of the surfaces exposed to the space environment. Acta Astronautica, 2007, 60, 166-174. | 3.2 | 36 |
| 20 | Electromagnetic characterization of advanced nanostructured materials and multilayer design optimization for metrological and low radar observability applications. Acta Astronautica, 2017, 134, 33-40. | 3.2 | 36 |
| 21 | A probabilistic sizing tool and Monte Carlo analysis for entry vehicle ablative thermal protection systems. Acta Astronautica, 2010, 66, 821-835. | 3.2 | 32 |
| 22 | Elasto-plastic behavior of thermoplastic composite laminates under cyclic loading. Composite Structures, 1995, 32, 375-382. | 5.8 | 31 |
| 23 | A new technology for production of high thickness carbon/carbon composites for launchers application. Acta Astronautica, 2016, 128, 277-285. | 3.2 | 31 |
| 24 | Tunable nanostructured composite with built-in metallic wire-grid electrode. AIP Advances, 2013, 3, . | 1.3 | 29 |
| 25 | Outgassing effect in polymeric composites exposed to space environment thermal-vacuum conditions. Acta Astronautica, 2020, 170, 466-471. | 3.2 | 29 |
| 26 | Advanced Radar Absorbing Ceramic-Based Materials for Multifunctional Applications in Space Environment. Materials, 2018, 11, 1730. | 2.9 | 28 |
| 27 | Temperature, atomic oxygen and outgassing effects on dielectric parameters and electrical properties of nanostructured composite carbon-based materials. Acta Astronautica, 2012, 76, 127-135. | 3.2 | 24 |
| 28 | Stochastic analysis of the vibrations of an uncertain composite truss for space applications. Composites Science and Technology, 2006, 66, 273-282. | 7.8 | 23 |
| 29 | Electromagnetic Shielding of Building Walls: From Roman times to the present age. IEEE Antennas and Propagation Magazine, 2016, 58, 20-31. | 1.4 | 23 |
| 30 | Process simulation for a large composite aeronautic beam by resin transfer molding. Composites Part B: Engineering, 2014, 57, 47-55. | 12.0 | 22 |
| 31 | Electromagnetic Characterization of Materials by Vector Network Analyzer Experimental Setup. , 2017, , 195-236. | | 22 |
| 32 | On closed form solution for the elastic stress field around holes in orthotropic composite plates under in-plane stress conditions. Composite Structures, 1993, 25, 139-156. | 5.8 | 21 |
| 33 | Coating effects on thermal properties of carbon carbon and carbon silicon carbide composites for space thermal protection systems. Acta Astronautica, 2014, 99, 276-282. | 3.2 | 21 |
| 34 | Evaluation of atomic oxygen effects on nano-coated carbon-carbon structures for re-entry applications. Acta Astronautica, 2019, 161, 276-282. | 3.2 | 21 |
| 35 | Microdamage effects on the overall response of long fibre/metal-matrix composites. Composites, 1994, 25, 575-582. | 0.7 | 20 |
| 36 | Shielding effectiveness of carbon nanotube reinforced concrete composites by reverberation chamber measurements. , 2015, , . | | 19 |

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|----|--|-----|-----------|
| 37 | Thermal analysis of advanced plate structures based on ceramic coating on carbon/carbon substrates for aerospace Re-Entry Re-Useable systems. Acta Astronautica, 2021, 183, 153-161. | 3.2 | 18 |
| 38 | A computational procedure to calculate stress-strain field around simple shape holes in composite laminates. Computers and Structures, 1994, 53, 1167-1179. | 4.4 | 17 |
| 39 | Designing complex shape filament-wound structures. Composites Manufacturing, 1992, 3, 53-58. | 0.2 | 16 |
| 40 | Atomic Oxygen Degradation of Polymeric Thin Films in Low Earth Orbit. AIAA Journal, 2003, 41, 1525-1534. | 2.6 | 16 |
| 41 | Densification of High Thickness C/C Composites by Chemical Vapor Infiltration. Procedia Engineering, 2015, 109, 381-389. | 1.2 | 14 |
| 42 | Electromagnetic absorption properties of spacecraft and space debris. Acta Astronautica, 2017, 133, 128-135. | 3.2 | 14 |
| 43 | CVD nano-coating of carbon composites for space materials atomic oxygen shielding. Procedia Structural Integrity, 2017, 3, 208-216. | 0.8 | 14 |
| 44 | Atomic Force Microscopy Characterization of Carbon Nanotubes. Journal of Physics: Conference Series, 2007, 61, 99-104. | 0.4 | 13 |
| 45 | Prediction of failure envelopes of composite tubes subjected to biaxial loadings. Acta Astronautica, 1996, 39, 355-368. | 3.2 | 12 |
| 46 | Carbon/carbon high thickness shell for advanced space vehicles. International Journal of Heat and Mass Transfer, 2019, 128, 613-622. | 4.8 | 12 |
| 47 | Space Environment Exposure Effects on Ceramic Coating for Thermal Protection Systems. Journal of Spacecraft and Rockets, 2021, 58, 1387-1393. | 1.9 | 11 |
| 48 | Advanced concrete materials for EMI reduction in protected environment and IEMI threats suppression. , 2015, , . | | 10 |
| 49 | Analysis of the effects of simulated synergistic LEO environment on solar panels. Acta Astronautica, 2007, 60, 175-185. | 3.2 | 9 |
| 50 | Modeling of Moisture Diffusion in Carbon Braided Composites. International Journal of Aerospace Engineering, 2008, 2008, 1-10. | 0.9 | 9 |
| 51 | Effects of moisture and thermal ageing on structural stability of sandwich panels. Acta Astronautica, 1984, 11, 489-508. | 3.2 | 8 |
| 52 | A new conceptual design approach for habitative space modules. Acta Astronautica, 2014, 97, 1-8. | 3.2 | 7 |
| 53 | Modeling of microwave absorbing structure using winning particle optimization applied on electrically conductive nanostructured composite material. , 2010, , . | | 6 |
| 54 | Prediction of thermal expansion coefficients of sandwiches using finite elements methods validated by experimental test results. Acta Astronautica, 1983, 10, 409-427. | 3.2 | 5 |

MARIO MARCHETTI

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|----|--|-----|-----------|
| 55 | Experimental verification and theoretical simulation of fracture behaviours of composite materials. Composite Structures, 1993, 23, 87-97. | 5.8 | 5 |
| 56 | A variable stiffness dual boundary element method for mixed-mode elastoplastic crack problems. Theoretical and Applied Fracture Mechanics, 1996, 25, 43-49. | 4.7 | 5 |
| 57 | Design of amall deployable satellite. Acta Astronautica, 2003, 53, 533-540. | 3.2 | 5 |
| 58 | <title>Composite materials based on carbon nanotubes for aerospace applications</title> ., 2005, , . | | 5 |
| 59 | The FLECS expandable module concept for future space missions and an overall description on the material validation. Acta Astronautica, 2006, 59, 220-229. | 3.2 | 5 |
| 60 | Thermoplastic Polymeric Materials for Spacecraft Applications: Flame Retardant Properties and UV/AtOx Aging Analysis. Applied Sciences (Switzerland), 2021, 11, 949. | 2.5 | 5 |
| 61 | Structural behaviour of aeronautical tungsten carbide/carbon-coated titanium ball screws under space thermal-vacuum conditions. Fatigue and Fracture of Engineering Materials and Structures, 2005, 28, 309-319. | 3.4 | 4 |
| 62 | Characterization of Low Density Open-Cell Foams for Space Inflatable Applications. Journal of Spacecraft and Rockets, 2009, 46, 210-217. | 1.9 | 4 |
| 63 | Ballistic characterization of nanocomposite materials by means of "Coil Gun" electromagnetic accelerator. , 2010, , . | | 4 |
| 64 | Dynamic response of large space structures. Acta Astronautica, 1982, 9, 455-471. | 3.2 | 3 |
| 65 | Evaluation of the built-in stresses and residual distortions on cured composites for space antenna reflectors applications. Composite Structures, 1987, 7, 267-283. | 5.8 | 3 |
| 66 | Design and manufacturing criteria for high precision composite antenna reflectors. Prediction of the residual distortions after the manufacturing process. Composite Structures, 1990, 16, 209-235. | 5.8 | 3 |
| 67 | Theoretical Forecasting and Experimental Validation of Damage Tolerance and Accumulation in Glass/Epoxy Laminates. Journal of Reinforced Plastics and Composites, 1992, 11, 56-81. | 3.1 | 3 |
| 68 | Degradation of Silicon Carbide Reflective Surfaces in the LEO Environment. , 2009, , . | | 3 |
| 69 | Modeling and measuring of microwave absorbing and shielding nanostructured materials. , 2012, , . | | 3 |
| 70 | Shell absorbing nanostructure for low radar observable missile. , 2015, , . | | 3 |
| 71 | A new advanced railgun system for debris impact study. Procedia Structural Integrity, 2017, 3, 545-552. | 0.8 | 3 |
| 72 | Study and ground simulations of outgassing and hypervelocity impacts on carbon-based materials for space applications. , 2018, , . | | 3 |

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|----|--|-----|-----------|
| 73 | Porosity evaluation in graphite-epoxy composite materials. Materials Chemistry, 1982, 7, 43-56. | 0.3 | 2 |
| 74 | Damping of composite plate for space structures: Prediction and measurement methods. Acta Astronautica, 1987, 15, 157-164. | 3.2 | 2 |
| 75 | Elasto-plasto overall response in single and mixed mode crack configurations. International Journal of Fracture, 1990, 43, 25-45. | 2.2 | 2 |
| 76 | Cleavage fracture prediction and assessment of a nuclear pressure vessel carbon steel using local approach criteria. Nuclear Engineering and Design, 1993, 144, 1-7. | 1.7 | 2 |
| 77 | Stochastic differential equation for wave diffusion in random media. , 2013, , . | | 2 |
| 78 | Behaviour of Hybrid Titanium Composite Laminate (HTCL) under In-Plane Loading. Advanced Composites Letters, 2004, 13, 096369350401300. | 1.3 | 1 |
| 79 | Carbon micro- and nano-structured multilayer composites for microwave metrological design. , 2016, , . | | 1 |
| 80 | Experimental Reflection Evaluation for Attitude Monitoring of Space Orbiting Systems with NRL Arch Method. Applied Sciences (Switzerland), 2021, 11, 8632. | 2.5 | 1 |
| 81 | Space Environment Effect on Polymeric Nano-Composite Materials. Aerotecnica Missili & Spazio, 2021, 100, 25-32. | 0.9 | 1 |
| 82 | Stress distributions in cracked thin cylindrical shells: Series expansion. Theoretical and Applied Fracture Mechanics, 1990, 13, 39-51. | 4.7 | 0 |
| 83 | DEVELOPMENT AND VALIDATION OF A NEW FACILITY FOR LOW EARTH ORBIT THERMAL CYCLING SIMULATION. Experimental Techniques, 2009, 33, 18-24. | 1.5 | 0 |
| 84 | Microwave behavior of nanostructured composite for low observable nanosatellites. , 2015, , . | | 0 |
| 85 | High Thickness Kevlar/Carbon Nanostructured Composite for Impact Protection. Aerotecnica Missili & Spazio, 2016, 95, 50-56. | 0.9 | 0 |
| 86 | Fully Configurable Electromagnetic Wave Absorbers by Using Carbon Nanostructures. , 2016, , . | | 0 |
| 87 | Space Carbon-Carbon Thermal Protection System Electromagnetic Characterization in Reverberation Chamber. Aerotecnica Missili & Spazio, 2016, 95, 92-98. | 0.9 | 0 |
| 88 | Low-Orbit Environment Effects on Carbon/SiC Composites: Experimental and Numerical Approaches. Journal of Engineering Thermophysics, 2020, 29, 561-575. | 1.4 | 0 |