

Mario Marchetti

List of Publications by Year in descending order

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Version: 2024-02-01

88

papers

2,948

citations

218592

26

h-index

168321

53

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89

all docs

89

docs citations

89

times ranked

2580

citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoplastic Polymeric Materials for Spacecraft Applications: Flame Retardant Properties and UV/AtOx Aging Analysis. Applied Sciences (Switzerland), 2021, 11, 949.	1.3	5
2	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.	1.7	18
3	Experimental Reflection Evaluation for Attitude Monitoring of Space Orbiting Systems with NRL Arch Method. Applied Sciences (Switzerland), 2021, 11, 8632.	1.3	1
4	Space Environment Exposure Effects on Ceramic Coating for Thermal Protection Systems. Journal of Spacecraft and Rockets, 2021, 58, 1387-1393.	1.3	11
5	Space Environment Effect on Polymeric Nano-Composite Materials. Aerotecnica Missili & Spazio, 2021, 100, 25-32.	0.5	1
6	Outgassing effect in polymeric composites exposed to space environment thermal-vacuum conditions. Acta Astronautica, 2020, 170, 466-471.	1.7	29
7	Low-Orbit Environment Effects on Carbon/SiC Composites: Experimental and Numerical Approaches. Journal of Engineering Thermophysics, 2020, 29, 561-575.	0.6	0
8	Evaluation of atomic oxygen effects on nano-coated carbon-carbon structures for re-entry applications. Acta Astronautica, 2019, 161, 276-282.	1.7	21
9	Carbon/carbon high thickness shell for advanced space vehicles. International Journal of Heat and Mass Transfer, 2019, 128, 613-622.	2.5	12
10	Carbon foam electromagnetic mm-wave absorption in reverberation chamber. Carbon, 2019, 144, 63-71.	5.4	57
11	Study and ground simulations of outgassing and hypervelocity impacts on carbon-based materials for space applications. , 2018, , .		3
12	Advanced Radar Absorbing Ceramic-Based Materials for Multifunctional Applications in Space Environment. Materials, 2018, 11, 1730.	1.3	28
13	Electromagnetic characterization of advanced nanostructured materials and multilayer design optimization for metrological and low radar observability applications. Acta Astronautica, 2017, 134, 33-40.	1.7	36
14	Electromagnetic absorption properties of spacecraft and space debris. Acta Astronautica, 2017, 133, 128-135.	1.7	14
15	CVD nano-coating of carbon composites for space materials atomic oxygen shielding. Procedia Structural Integrity, 2017, 3, 208-216.	0.3	14
16	Matterâ€™s Electromagnetic Signature Reproduction by Graded-Dielectric Multilayer Assembly. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2801-2809.	2.9	44
17	A new advanced railgun system for debris impact study. Procedia Structural Integrity, 2017, 3, 545-552.	0.3	3
18	Electromagnetic properties of carbon nanotube reinforced concrete composites for frequency selective shielding structures. Construction and Building Materials, 2017, 131, 267-277.	3.2	56

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19	Electromagnetic Characterization of Materials by Vector Network Analyzer Experimental Setup. , 2017, , 195-236.		22
20	High Thickness Kevlar/Carbon Nanostructured Composite for Impact Protection. Aerotecnica Missili & Spazio, 2016, 95, 50-56.	0.5	0
21	Fully Configurable Electromagnetic Wave Absorbers by Using Carbon Nanostructures. , 2016, , .		0
22	Space Carbon-Carbon Thermal Protection System Electromagnetic Characterization in Reverberation Chamber. Aerotecnica Missili & Spazio, 2016, 95, 92-98.	0.5	0
23	Ballistic and electromagnetic shielding behaviour of multifunctional Kevlar fiber reinforced epoxy composites modified by carbon nanotubes. Carbon, 2016, 104, 141-156.	5.4	79
24	Electromagnetic Shielding of Building Walls: From Roman times to the present age. IEEE Antennas and Propagation Magazine, 2016, 58, 20-31.	1.2	23
25	Carbon micro- and nano-structured multilayer composites for microwave metrological design. , 2016, , .		1
26	A new technology for production of high thickness carbon/carbon composites for launchers application. Acta Astronautica, 2016, 128, 277-285.	1.7	31
27	Shielding effectiveness of carbon nanotube reinforced concrete composites by reverberation chamber measurements. , 2015, , .		19
28	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.	2.4	60
29	Advanced concrete materials for EMI reduction in protected environment and IEMI threats suppression. , 2015, , .		10
30	Densification of High Thickness C/C Composites by Chemical Vapor Infiltration. Procedia Engineering, 2015, 109, 381-389.	1.2	14
31	Microwave behavior of nanostructured composite for low observable nanosatellites. , 2015, , .		0
32	Shell absorbing nanostructure for low radar observable missile. , 2015, , .		3
33	Process simulation for a large composite aeronautic beam by resin transfer molding. Composites Part B: Engineering, 2014, 57, 47-55.	5.9	22
34	Coating effects on thermal properties of carbon carbon and carbon silicon carbide composites for space thermal protection systems. Acta Astronautica, 2014, 99, 276-282.	1.7	21
35	A new conceptual design approach for habitative space modules. Acta Astronautica, 2014, 97, 1-8.	1.7	7
36	Broadband electromagnetic characterization of carbon foam to metal contact. Carbon, 2014, 68, 149-158.	5.4	80

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37	Electromagnetic characterization and shielding effectiveness of concrete composite reinforced with carbon nanotubes in the mobile phones frequency band. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 188, 119-129.	1.7	103
38	Synthesis and electromagnetic characterization of frequency selective radar absorbing materials using carbon nanopowders. <i>Carbon</i> , 2014, 77, 756-774.	5.4	289
39	Electromagnetic shielding of thermal protection system for hypersonic vehicles. <i>Acta Astronautica</i> , 2013, 87, 30-39.	1.7	66
40	Determination of the electrical conductivity of carbon/carbon at high microwave frequencies. <i>Carbon</i> , 2013, 54, 76-85.	5.4	42
41	Reduction of satellite electromagnetic scattering by carbon nanostructured multilayers. <i>Acta Astronautica</i> , 2013, 88, 61-73.	1.7	66
42	Experimental study of impact resistance in multi-walled carbon nanotube reinforced epoxy. <i>Composite Structures</i> , 2013, 99, 62-68.	3.1	70
43	Stochastic differential equation for wave diffusion in random media. , 2013, , .		2
44	Tunable nanostructured composite with built-in metallic wire-grid electrode. <i>AIP Advances</i> , 2013, 3, .	0.6	29
45	Modeling and measuring of microwave absorbing and shielding nanostructured materials. , 2012, , .		3
46	Temperature, atomic oxygen and outgassing effects on dielectric parameters and electrical properties of nanostructured composite carbon-based materials. <i>Acta Astronautica</i> , 2012, 76, 127-135.	1.7	24
47	Electromagnetic shielding performance of carbon foams. <i>Carbon</i> , 2012, 50, 1972-1980.	5.4	268
48	Optimization of Multilayer Shields Made of Composite Nanostructured Materials. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012, 54, 60-69.	1.4	85
49	Broadband Electromagnetic Absorbers Using Carbon Nanostructure-Based Composites. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2011, 59, 2633-2646.	2.9	225
50	Nanostructured composite materials for electromagnetic interference shielding applications. <i>Acta Astronautica</i> , 2011, 69, 747-757.	1.7	83
51	A probabilistic sizing tool and Monte Carlo analysis for entry vehicle ablative thermal protection systems. <i>Acta Astronautica</i> , 2010, 66, 821-835.	1.7	32
52	X-Band microwave characterization of carbon-based nanocomposite material, absorption capability comparison and RAS design simulation. <i>Composites Science and Technology</i> , 2010, 70, 400-409.	3.8	429
53	Ballistic characterization of nanocomposite materials by means of “Coil Gun” electromagnetic accelerator. , 2010, , .		4
54	Modeling of microwave absorbing structure using winning particle optimization applied on electrically conductive nanostructured composite material. , 2010, , .		6

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55	Degradation of Silicon Carbide Reflective Surfaces in the LEO Environment. , 2009, , .		3
56	Characterization of Low Density Open-Cell Foams for Space Inflatable Applications. Journal of Spacecraft and Rockets, 2009, 46, 210-217.	1.3	4
57	DEVELOPMENT AND VALIDATION OF A NEW FACILITY FOR LOW EARTH ORBIT THERMAL CYCLING SIMULATION. Experimental Techniques, 2009, 33, 18-24.	0.9	0
58	Modeling of Moisture Diffusion in Carbon Braided Composites. International Journal of Aerospace Engineering, 2008, 2008, 1-10.	0.5	9
59	Atomic Force Microscopy Characterization of Carbon Nanotubes. Journal of Physics: Conference Series, 2007, 61, 99-104.	0.3	13
60	Degradation of the surfaces exposed to the space environment. Acta Astronautica, 2007, 60, 166-174.	1.7	36
61	Analysis of the effects of simulated synergistic LEO environment on solar panels. Acta Astronautica, 2007, 60, 175-185.	1.7	9
62	Nanoparticles for solid rocket propulsion. Journal of Physics Condensed Matter, 2006, 18, S1991-S2005.	0.7	84
63	The FLECS expandable module concept for future space missions and an overall description on the material validation. Acta Astronautica, 2006, 59, 220-229.	1.7	5
64	Stochastic analysis of the vibrations of an uncertain composite truss for space applications. Composites Science and Technology, 2006, 66, 273-282.	3.8	23
65	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.	1.7	4
66	<title>Composite materials based on carbon nanotubes for aerospace applications</title>. , 2005, , .		5
67	Behaviour of Hybrid Titanium Composite Laminate (HTCL) under In-Plane Loading. Advanced Composites Letters, 2004, 13, 096369350401300.	1.3	1
68	Design of amall deployable satellite. Acta Astronautica, 2003, 53, 533-540.	1.7	5
69	Atomic Oxygen Degradation of Polymeric Thin Films in Low Earth Orbit. AIAA Journal, 2003, 41, 1525-1534.	1.5	16
70	A variable stiffness dual boundary element method for mixed-mode elastoplastic crack problems. Theoretical and Applied Fracture Mechanics, 1996, 25, 43-49.	2.1	5
71	Prediction of failure envelopes of composite tubes subjected to biaxial loadings. Acta Astronautica, 1996, 39, 355-368.	1.7	12
72	Elasto-plastic behavior of thermoplastic composite laminates under cyclic loading. Composite Structures, 1995, 32, 375-382.	3.1	31

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73	A computational procedure to calculate stress-strain field around simple shape holes in composite laminates. Computers and Structures, 1994, 53, 1167-1179.	2.4	17
74	Microdamage effects on the overall response of long fibre/metal-matrix composites. Composites, 1994, 25, 575-582.	0.9	20
75	Experimental verification and theoretical simulation of fracture behaviours of composite materials. Composite Structures, 1993, 23, 87-97.	3.1	5
76	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.	3.1	21
77	Cleavage fracture prediction and assessment of a nuclear pressure vessel carbon steel using local approach criteria. Nuclear Engineering and Design, 1993, 144, 1-7.	0.8	2
78	Theoretical Forecasting and Experimental Validation of Damage Tolerance and Accumulation in Glass/Epoxy Laminates. Journal of Reinforced Plastics and Composites, 1992, 11, 56-81.	1.6	3
79	Designing complex shape filament-wound structures. Composites Manufacturing, 1992, 3, 53-58.	0.4	16
80	Elasto-plasto overall response in single and mixed mode crack configurations. International Journal of Fracture, 1990, 43, 25-45.	1.1	2
81	Stress distributions in cracked thin cylindrical shells: Series expansion. Theoretical and Applied Fracture Mechanics, 1990, 13, 39-51.	2.1	0
82	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.	3.1	3
83	Evaluation of the built-in stresses and residual distortions on cured composites for space antenna reflectors applications. Composite Structures, 1987, 7, 267-283.	3.1	3
84	Damping of composite plate for space structures: Prediction and measurement methods. Acta Astronautica, 1987, 15, 157-164.	1.7	2
85	Effects of moisture and thermal ageing on structural stability of sandwich panels. Acta Astronautica, 1984, 11, 489-508.	1.7	8
86	Prediction of thermal expansion coefficients of sandwiches using finite elements methods validated by experimental test results. Acta Astronautica, 1983, 10, 409-427.	1.7	5
87	Dynamic response of large space structures. Acta Astronautica, 1982, 9, 455-471.	1.7	3
88	Porosity evaluation in graphite-epoxy composite materials. Materials Chemistry, 1982, 7, 43-56.	0.4	2