

Luigi De Nardo

List of Publications by Year in descending order

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75
papers

1,765
citations

236925

25
h-index

302126

39
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79
all docs

79
docs citations

79
times ranked

2578
citing authors

#	ARTICLE	IF	CITATIONS
1	Titanium Oxide Antibacterial Surfaces in Biomedical Devices. <i>International Journal of Artificial Organs</i> , 2011, 34, 929-946.	1.4	219
2	Interaction of highly nonlinear solitary waves with linear elastic media. <i>Physical Review E</i> , 2011, 83, 046606.	2.1	87
3	Chitosan-Based Trilayer Scaffold for Multitissue Periodontal Regeneration. <i>Journal of Dental Research</i> , 2018, 97, 303-311.	5.2	77
4	Shape memory polymer foams for cerebral aneurysm reparation: Effects of plasma sterilization on physical properties and cytocompatibility. <i>Acta Biomaterialia</i> , 2009, 5, 1508-1518.	8.3	62
5	Ceramic aerogels from TEMPO-oxidized cellulose nanofibre templates: Synthesis, characterization, and photocatalytic properties. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 261, 53-60.	3.9	61
6	Bioactive Zn-doped hydroxyapatite coatings and their antibacterial efficacy against <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> . <i>Surface and Coatings Technology</i> , 2018, 352, 84-91.	4.8	60
7	Nondestructive evaluation of orthopaedic implant stability in THA using highly nonlinear solitary waves. <i>Smart Materials and Structures</i> , 2012, 21, 012002.	3.5	58
8	Phase change material cellulosic composites for the cold storage of perishable products: From material preparation to computational evaluation. <i>Applied Energy</i> , 2012, 89, 339-346.	10.1	55
9	Suspension thermal spraying of hydroxyapatite: Microstructure and in vitro behaviour. <i>Materials Science and Engineering C</i> , 2014, 34, 287-303.	7.3	55
10	Biopolymer-based strategies in the design of smart medical devices and artificial organs. <i>International Journal of Artificial Organs</i> , 2018, 41, 337-359.	1.4	54
11	Microstructure and in vitro behaviour of 45S5 bioglass coatings deposited by high velocity suspension flame spraying (HVSFS). <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1303-1319.	3.6	51
12	Thermo-Responsive Methylcellulose Hydrogels: From Design to Applications as Smart Biomaterials. <i>Tissue Engineering - Part B: Reviews</i> , 2021, 27, 486-513.	4.8	47
13	Synthesis and Characterization of Carbon Nanotube-Polymer Multilayer Structures. <i>ACS Nano</i> , 2011, 5, 7713-7721.	14.6	46
14	A Multilayered Edible Coating to Extend Produce Shelf Life. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14312-14321.	6.7	46
15	We still have a Long Way to go to Effectively Deliver Genes!. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012, 10, 82-91.	1.6	45
16	Site-Specific Quantification of Bone Quality Using Highly Nonlinear Solitary Waves. <i>Journal of Biomechanical Engineering</i> , 2012, 134, 101001.	1.3	41
17	Bioactivity and Mechanical Stability of 45S5 Bioactive Glass Scaffolds Based on Natural Marine Sponges. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1881-1893.	2.5	35
18	Morphology tuning of chitosan films via electrochemical deposition. <i>Materials Letters</i> , 2012, 78, 18-21.	2.6	34

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19	Chemico-physical modifications induced by plasma and ozone sterilizations on shape memory polyurethane foams. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 2067-2078.	3.6	32
20	Polymeric Materials as Artificial Muscles: An Overview. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2015, 13, 1-9.	1.6	32
21	Comparative evaluation and optimization of off-the-shelf cationic polymers for gene delivery purposes. <i>Polymer Chemistry</i> , 2015, 6, 6325-6339.	3.9	32
22	Synthesis and characterization of scratch-resistant hybrid coatings based on non-hydrolytic sol-gel ZrO ₂ nanoparticles. <i>Progress in Organic Coatings</i> , 2017, 103, 60-68.	3.9	31
23	Assessment of dental implant stability by means of the electromechanical impedance method. <i>Smart Materials and Structures</i> , 2011, 20, 045008.	3.5	27
24	Hierarchic micro-patterned porous scaffolds via electrochemical replica-deposition enhance neo-vascularization. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 025018.	3.3	27
25	Preparation and Characterization of Shape Memory Polymer Scaffolds via Solvent Casting/Particulate Leaching. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012, 10, 119-126.	1.6	26
26	Titanium Oxide Modeling and Design for Innovative Biomedical Surfaces: A Concise Review. <i>International Journal of Artificial Organs</i> , 2012, 35, 629-641.	1.4	22
27	Biomanufacturing of a Chitosan/Collagen Scaffold to Drive Adhesion and Alignment of Human Cardiomyocyte Derived from Stem Cells. <i>Procedia CIRP</i> , 2016, 49, 113-120.	1.9	21
28	Electrophoretic processing of chitosan based composite scaffolds with Nb-doped bioactive glass for bone tissue regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2020, 31, 43.	3.6	20
29	Study of the mechanical stability and bioactivity of Bioglass [®] based glass-ceramic scaffolds produced via powder metallurgy-inspired technology. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 015005.	3.3	19
30	Nonlinear viscoelasticity of freestanding and polymer-anchored vertically aligned carbon nanotube foams. <i>Journal of Applied Physics</i> , 2012, 111, 074314.	2.5	16
31	Study of chemical environments for washing and descaling of food processing appliances: An insight in commercial cleaning products. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 53, 23-36.	5.8	15
32	Bactericidal activity of gallium-doped chitosan coatings against staphylococcal infection. <i>Journal of Applied Microbiology</i> , 2019, 126, 87-101.	3.1	15
33	Influence of frequency and duty cycle on the properties of antibacterial borate-based PEO coatings on titanium for bone-contact applications. <i>Applied Surface Science</i> , 2021, 567, 150811.	6.1	14
34	Physicochemical and nanomechanical investigation of electrodeposited chitosan:PEO blends. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2641-2650.	5.8	13
35	Nonlinear creep behaviour of glass fiber reinforced polypropylene: Impact of aging on stiffness degradation. <i>Composites Part B: Engineering</i> , 2019, 163, 702-709.	12.0	13
36	Graphene nanoplatelets composite membranes for thermal comfort enhancement in performance textiles. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49645.	2.6	13

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37	Smart Methylcellulose Hydrogels for pH-Triggered Delivery of Silver Nanoparticles. <i>Gels</i> , 2022, 8, 298.	4.5	13
38	Hierarchical microchannel architecture in chitosan/bioactive glass scaffolds via electrophoretic deposition positive replica. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1455-1465.	4.0	12
39	Evaluation of the subtle trade-off between physical stability and thermo-responsiveness in crosslinked methylcellulose hydrogels. <i>Soft Matter</i> , 2020, 16, 5577-5587.	2.7	12
40	New heparinizable modified poly(carbonate urethane) surfaces diminishing bacterial colonization. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 2109-2115.	3.6	11
41	Chemically Crosslinked Methylcellulose Substrates for Cell Sheet Engineering. <i>Gels</i> , 2021, 7, 141.	4.5	11
42	Design of 2D chitosan scaffolds via electrochemical structuring. <i>Biomatter</i> , 2014, 4, e29506.	2.6	10
43	Geometry-Induced Mechanical Properties of Carbon Nanotube Foams. <i>Advanced Engineering Materials</i> , 2014, 16, 1026-1031.	3.5	10
44	Electrophoretic bottom up design of chitosan patches for topical drug delivery. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 40.	3.6	10
45	Trends in biomedical engineering: focus on Smart Bio-Materials and Drug Delivery. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2011, 9, 87-97.	0.4	9
46	Resorbability of a Bioglass®-based glass-ceramic scaffold produced via a powder metallurgy approach. <i>Ceramics International</i> , 2017, 43, 8625-8635.	4.8	9
47	Effect of wear from cleaning operations on sintered ceramic surfaces: Correlation of surface properties data with touch perception and digital image processing. <i>Wear</i> , 2017, 390-391, 355-366.	3.1	9
48	Titanium oxide modeling and design for innovative biomedical surfaces: a concise review. <i>International Journal of Artificial Organs</i> , 2012, 35, 629-641.	1.4	8
49	Particle anisotropy and crystalline phase transition in one-pot synthesis of nano-zirconia: a causal relationship. <i>CrystEngComm</i> , 2018, 20, 879-888.	2.6	8
50	Ca-doped zirconia mesoporous coatings for biomedical applications: A physicochemical and biological investigation. <i>Journal of the European Ceramic Society</i> , 2020, 40, 3698-3706.	5.7	8
51	In-situ Raman spectroscopy: An effective technique for the quantification of LCST transition of methylcellulose hydrogels. <i>Materials Letters</i> , 2020, 274, 128011.	2.6	8
52	Electrochemically Deposited Gentamicin-Loaded Calcium phosphate Coatings for Bone Tissue Integration. <i>International Journal of Artificial Organs</i> , 2012, 35, 876-883.	1.4	7
53	Dynamic Behavior of Vertically Aligned Carbon Nanotube Foams With Patterned Microstructure. <i>Advanced Engineering Materials</i> , 2015, 17, 1470-1479.	3.5	7
54	Flexible hybrid coatings with efficient antioxidation properties. <i>Food Packaging and Shelf Life</i> , 2016, 10, 106-114.	7.5	7

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55	Aging of Bioactive Glass-Based Foams: Effects on Structure, Properties, and Bioactivity. <i>Materials</i> , 2019, 12, 1485.	2.9	7
56	Compounded topographical and physicochemical cueing by micro-engineered chitosan substrates on rat dorsal root ganglion neurons and human mesenchymal stem cells. <i>Soft Matter</i> , 2021, 17, 5284-5302.	2.7	7
57	Different Processing Methods to Obtain Porous Structure in Shape Memory Polymers. <i>Materials Science Forum</i> , 2007, 539-543, 663-668.	0.3	6
58	Tribological and mechanical performance evaluation of metal prosthesis components manufactured via metal injection molding. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 5332.	3.6	6
59	Effect of food chemicals and temperature on mechanical reliability of bio-based glass fibers reinforced polyamide. <i>Composites Part B: Engineering</i> , 2019, 157, 140-149.	12.0	6
60	Mesoporous zirconia surfaces with anti-biofilm properties for dental implants. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 045016.	3.3	6
61	Micro-Structured Patches for Dermal Regeneration Obtained via Electrophoretic Replica Deposition. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5010.	2.5	5
62	Dispersions of Zirconia Nanoparticles Close to the Phase Boundary of Surfactant-Free Ternary Mixtures. <i>Langmuir</i> , 2021, 37, 4072-4081.	3.5	5
63	Monitoring metal ion leaching in oil-ZnO paint systems with a paramagnetic probe. <i>Microchemical Journal</i> , 2019, 151, 104256.	4.5	4
64	Corrosion Behaviour of Nitinol Vascular Stents. <i>Advances in Science and Technology</i> , 2006, 49, 252-257.	0.2	3
65	Metal injection molding as enabling technology for the production of metal prosthesis components: Electrochemical and <i>in vitro</i> characterization. , 2013, 101, 1294-1301.		3
66	Nanostructured Calcium Phosphates for Biomedical Applications. <i>Key Engineering Materials</i> , 2014, 604, 212-215.	0.4	3
67	Optimization of Cu and Zn co-doped PEO titania coatings produced in a novel borate-based electrolyte for biomedical applications. <i>Materials Letters</i> , 2021, 292, 129627.	2.6	3
68	Development of a generalised equilibrium modified atmosphere model and its application to the Taleggio cheese. <i>Journal of Food Engineering</i> , 2022, 315, 110765.	5.2	2
69	Shape Memory Polymer Porous Structures for Mini-Invasive Surgical Procedures. , 2006, , .		2
70	Use of the electro-mechanical impedance method for the assessment of dental implant stability. , 2011, , .		1
71	From Stiffness of Iron-Carbon Diagrams to Weakness of Sensoriality. , 2014, , 315-327.		0
72	Optimization of Chitosan-Based Scaffolds Obtained via Cathodic Polarization. <i>Key Engineering Materials</i> , 2015, 654, 154-158.	0.4	0

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73	Improved functional performances of traditional artistic pottery by sol-gel nanoparticles deposition. Materials Research Express, 2019, 6, 025032.	1.6	0
74	Effects of the equilibrium atmosphere on Taleggio cheese storage in micro perforated packaging. LWT - Food Science and Technology, 2022, , 113464.	5.2	0
75	Antibacterial Activity of Nano-Structured TiO ₂ Surfaces: a Preliminary in Vitro Study. , 0, , 163-172.		0