Devid Maniglio

List of Publications by Year
in descending order

82 papers	2,454 citations	172207 29 h-index	223531 46 g-index
84 all docs	84 docs citations	84 times ranked	3553 citing authors

#	Article	IF	Citations
1	The solid surface free energy calculation. Journal of Colloid and Interface Science, 2004, 271, 434-453.	5.0	183
2	Role of chemical interactions in bacterial adhesion to polymer surfaces. Biomaterials, 2004, 25, 2029-2037.	5.7	163
3	The determination of a â€˜stable-equilibriumâ€™ contact angle on heterogeneous and rough surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 206, 47-67.	2.3	110
4	Surface Properties of Silk Fibroin Films and Their Interaction with Fibroblasts. Macromolecular Bioscience, 2005, 5, 1175-1183.	2.1	96
5	The solid surface free energy calculation. Journal of Colloid and Interface Science, 2004, 271, 454-472.	5.0	87
6	Effects on Interfacial Properties and Cell Adhesion of Surface Modification by Pectic Hairy Regions. Biomacromolecules, 2004, 5, 2094-2104.	2.6	76
7	Genipinâ€Modified Silkâ€Fibroin Nanometric Nets. Macromolecular Bioscience, 2008, 8, 766-774.	2.1	71
8	An Electrohydrodynamic Bioprinter for Alginate Hydrogels Containing Living Cells. Tissue Engineering - Part C: Methods, 2015, 21, 123-132.	1.1	69
9	An Experimental Procedure to Obtain the Equilibrium Contact Angle from the Wilhelmy Method. Oil and Gas Science and Technology, 2001, 56, 9-22.	1.4	60
10	Silk Hydrogels of Tunable Structure and Viscoelastic Properties Using Different Chronological Orders of Genipin and Physical Cross-Linking. ACS Applied Materials & Interfaces, 2015, 7, 12099-12108.	4.0	60
11	Silk Fibroin Processing and Thrombogenic Responses. Journal of Biomaterials Science, Polymer Edition, 2009, 20, 1875-1897.	1.9	54
12	Biohybrid nanofiber constructs with anisotropic biomechanical properties. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 96B, 276-286.	1.6	52
13	Recent theoretical and experimental advancements in the application of van Ossâ€“Chaudhuryâ€“Good acidâ€“base theory to the analysis of polymer surfaces I. General aspects. Journal of Adhesion Science and Technology, 2003, 17, 1477-1505.	1.4	47
14	The application of the contact angle in monument protection: new materials and methods. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 241, 299-312.	2.3	47
15	A comparative study of the refractive index of silk protein thin films towards biomaterial based optical devices. Optical Materials, 2018, 78, 407-414.	1.7	47
16	Microencapsulation of cells in alginate through an electrohydrodynamic process. Journal of Bioactive and Compatible Polymers, 2013, 28, 413-425.	0.8	45
17	Luminescent graphene quantum dots from oxidized multi-walled carbon nanotubes. Materials Chemistry and Physics, 2012, 137, 12-16.	2.0	44
18	Preparation and Statistical Characterization of Tunable Porous Sponge Scaffolds using UV Cross-linking of Methacrylate-Modified Silk Fibroin. ACS Biomaterials Science and Engineering, 2019, 5, 6374-6388.	2.6	43

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19	Processing and characterization of diatom nanoparticles and microparticles as potential source of silicon for bone tissue engineering. Materials Science and Engineering C, 2016, 59, 471-479.	3.8	42
20	Surface properties and blood compatibility of commercially available diamondâ€like carbon coatings for cardiovascular devices. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 90B, 338-349.	1.6	40
21	Additively manufactured Tiâ€“6Alâ€“4V thin struts via laser powder bed fusion: Effect of building orientation on geometrical accuracy and mechanical properties. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 119, 104495.	1.5	40
22	Silk fibroin porous scaffolds by N₂O foaming. Journal of Biomaterials Science, Polymer Edition, 2018, 29, 491-506.	1.9	39
23	Hydroxyapatite nanorods: Soft-template synthesis, characterization and preliminary inÂvitro tests. Journal of Biomaterials Applications, 2013, 28, 49-61.	1.2	38
24	Recent theoretical and experimental advancements in the application of the van Ossâ€“Chaudhuryâ€“Good acidâ€“base theory to the analysis of polymer surfaces II. Some peculiar cases. Journal of Adhesion Science and Technology, 2003, 17, 1425-1456.	1.4	37
25	Electrodeposition of Silk Fibroin on Metal Substrates. Journal of Bioactive and Compatible Polymers, 2010, 25, 441-454.	0.8	37
26	Medical-Grade Silicone Coated with Rhamnolipid R89 Is Effective against Staphylococcus spp. Biofilms. Molecules, 2019, 24, 3843.	1.7	36
27	Amphiphilic copolymers in biomedical applications: Synthesis routes and property control. Materials Science and Engineering C, 2021, 123, 111952.	3.8	36
28	Folding and Assembly of Fibroin Driven by an AC Electric Field: Effects on Film Properties. Macromolecular Bioscience, 2008, 8, 827-835.	2.1	33
29	Fabrication of Nanoscale Patternable Films of Silk Fibroin Using Benign Solvents. Macromolecular Materials and Engineering, 2017, 302, 1700110.	1.7	33
30	Quantitative Analysis of Protein Adsorption via Atomic Force Microscopy and Surface Plasmon Resonance. Macromolecular Bioscience, 2008, 8, 1126-1134.	2.1	29
31	One-step process to create porous structures in cross-linked polymer films via breath-figure formations during in situ cross-linking reactions. Polymer, 2011, 52, 5102-5106.	1.8	29
32	A Thermalâ€Reflowâ€Based Lowâ€Temperature, Highâ€Pressure Sintering of Lyophilized Silk Fibroin for the Fast Fabrication of Biosubstrates. Advanced Functional Materials, 2019, 29, 1901134.	7.8	29
33	Blood compatibility of polymers derived from natural materials. Journal of Bioactive and Compatible Polymers, 2012, 27, 295-312.	0.8	28
34	Gold nanoparticles 1D array as mechanochromic strain sensor. Materials Chemistry and Physics, 2017, 192, 94-99.	2.0	28
35	Inhibitory Effects of Lipopeptides and Glycolipids on C. albicansâ€“Staphylococcus spp. Dual-Species Biofilms. Frontiers in Microbiology, 2020, 11, 545654.	1.5	26
36	Molecularly Imprinted Silk Fibroin Nanoparticles. ACS Applied Materials & Interfaces, 2021, 13, 31431-31439.	4.0	26

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37	Fabrication and characterizations of crosslinked porous polymer films with varying chemical compositions. Polymer, 2012, 53, 3749-3755.	1.8	24
38	Effect of Cryopreservation on Cell-Laden Hydrogels: Comparison of Different Cryoprotectants. Tissue Engineering - Part C: Methods, 2018, 24, 20-31.	1.1	24
39	Dental Implants with Anti-Biofilm Properties: A Pilot Study for Developing a New Sericin-Based Coating. Materials, 2019, 12, 2429.	1.3	21
40	Spider (Linothele megatheloides) and silkworm (Bombyx mori) silks: Comparative physical and biological evaluation. Materials Science and Engineering C, 2020, 107, 110197.	3.8	21
41	Deformable molecularly imprinted nanogels permit sensitivity-gain in plasmonic sensing. Biosensors and Bioelectronics, 2020, 156, 112126.	5.3	21
42	Characterization of thiol-functionalized carbon nanotubes on gold surfaces. Surface Science, 2010, 604, 1414-1419.	0.8	20
43	Assessing the Impact of Electrohydrodynamic Jetting on Encapsulated Cell Viability, Proliferation, and Ability to Self-Assemble in Three-Dimensional Structures. Tissue Engineering - Part C: Methods, 2015, 21, 631-638.	1.1	20
44	Design and optimization of self-nanoemulsifying formulations for lipophilic drugs. Nanotechnology, 2015, 26, 125102.	1.3	19
45	Rhamnolipid coating reduces microbial biofilm formation on titanium implants: an in vitro study. BMC Oral Health, 2021, 21, 49.	0.8	18
46	Inhibition of Candida albicans biofilm by lipopeptide AC7 coated medical-grade silicone in combination with farnesol. AIMS Bioengineering, 2018, 5, 192-208.	0.6	18
47	Testing Surgical Face Masks in an Emergency Context: The Experience of Italian Laboratories during the COVID-19 Pandemic Crisis. International Journal of Environmental Research and Public Health, 2021, 18, 1462.	1.2	17
48	Microfabrication of PDLLA scaffolds. Journal of Tissue Engineering and Regenerative Medicine, 2011, 5, 569-577.	1.3	16
49	Theranostic gold-magnetite hybrid nanoparticles for MRI-guided radiosensitization. Nanotechnology, 2018, 29, 315101.	1.3	16
50	Carbon Coatings for Cardiovascular Applications: Physico-Chemical Properties and Blood Compatibility. Journal of Biomaterials Applications, 2010, 25, 57-74.	1.2	15
51	Functional role of scaffold geometries as a template for physiological ECM formation: evaluation of collagen 3D assembly. Journal of Tissue Engineering and Regenerative Medicine, 2013, 7, 161-168.	1.3	14
52	Breath figures decorated silica-based ceramic surfaces with tunable geometry from UV cross-linkable polysiloxane precursor. Journal of the European Ceramic Society, 2018, 38, 1320-1326.	2.8	14
53	Oleic acid surfactant in polycaprolactone/hydroxyapatiteâ€composites for bone tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 1076-1082.	1.6	13
54	Coaxial PCL/PEG-thiolâ€“ene microfiber with tunable physico-chemical properties for regenerative scaffolds. Biomaterials Science, 2019, 7, 3640-3651.	2.6	13

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55	A genipin crosslinked silk fibroin monolith by compression molding with recovering mechanical properties in physiological conditions. Cell Reports Physical Science, 2021, 2, 100605.	2.8	13
56	Molecular connectivity methods for the characterization of surface energetics of liquids and polymers. Journal of Colloid and Interface Science, 2006, 296, 292-308.	5.0	12
57	Plasmaâ€Assisted Deposition of Silk Fibroin on Different Surfaces. Advanced Materials Interfaces, 2021, 8, 2100324.	1.9	11
58	On the Effect of Soft Molecularly Imprinted Nanoparticles Receptors Combined to Nanoplasmonic Probes for Biomedical Applications. Frontiers in Bioengineering and Biotechnology, 2021, 9, 801489.	2.0	11
59	Development of pH-sensitive self-nanoemulsifying drug delivery systems for acid-labile lipophilic drugs. Chemistry and Physics of Lipids, 2016, 196, 81-88.	1.5	10
60	Preliminary evaluation of the production of non-carrier added 111Ag as core of a therapeutic radiopharmaceutical in the framework of ISOLPHARM_Ag experiment. Applied Radiation and Isotopes, 2020, 164, 109258.	0.7	10
61	Alginate Hydrogels: A Tool for 3D Cell Encapsulation, Tissue Engineering, and Biofabrication. Advances in Experimental Medicine and Biology, 2020, 1250, 49-61.	0.8	10
62	Modulating the release of drugs from alginate matrices with the addition of gelatin microbeads. Journal of Bioactive and Compatible Polymers, 2014, 29, 193-207.	0.8	9
63	A combined method for bilayered vascular graft fabrication. Journal of Materials Science: Materials in Medicine, 2015, 26, 96.	1.7	9
64	From Honeycomb- to Microsphere-Patterned Surfaces of Poly(Lactic Acid) and a Starch-Poly(Lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2017, 15, 31-42.	0.7	8
65	BioMIPs: molecularly imprinted silk fibroin nanoparticles to recognize the iron regulating hormone hepcidin. Mikrochimica Acta, 2022, 189, 66.	2.5	7
66	Comparative Methods for the Evaluation of Protein Adsorption. Macromolecular Bioscience, 2009, 9, 661-670.	2.1	6
67	Sodium oleate induced rapid gelation of silk fibroin. Journal of Biomaterials Science, Polymer Edition, 2018, 29, 1219-1231.	1.9	5
68	Ultrasound-Assisted Hydroxyapatite-Decorated Breath-Figure Polymer-Derived Ceramic Coatings for Ti6Al4V Substrates. ACS Applied Materials & Interfaces, 2020, 12, 50772-50783.	4.0	5
69	Polyelectrolytes-coated gold nanoparticles detection by PEDOT:PSS electrochemical transistors. Organic Electronics, 2012, 13, 1716-1721.	1.4	4
70	Hydrophobic Coatings by Thiol-Ene Click Functionalization of Silsesquioxanes with Tunable Architecture. Materials, 2017, 10, 913.	1.3	4
71	Soluble collagen dissolution and assembling in pressurized carbon dioxide water solutions. EXPRESS Polymer Letters, 2018, 12, 159-170.	1.1	4
72	A novel and selective silk fibroin fragmentation method. Soft Matter, 2021, 17, 6863-6872.	1.2	4

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73	On the effect of the node and building orientation on the fatigue behavior of Lâ€PBF Ti6Al4V lattice structure subâ€unital elements. Material Design and Processing Communications, 2021, 3, e258.	0.5	4
74	Multimodal Gold Nanostars as SERS Tags for Optically-Driven Doxorubicin Release Study in Cancer Cells. Materials, 2021, 14, 7272.	1.3	4
75	A New Cellsâ€Compatible Microfluidic Device for Single Channel Recordings. Electroanalysis, 2014, 26, 1653-1659.	1.5	3
76	Breath Figures decorated silicon oxinitride ceramic surfaces with controlled Si ions release for enhanced osteoinduction. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 1284-1294.	1.6	3
77	Imaging the Morphological Structure of Silk Fibroin Constructs through Fluorescence Energy Transfer and Confocal Microscopy. Electronic Materials, 2021, 2, 186-197.	0.9	3
78	Atmospheric Plasmaâ€Assisted Deposition and Patterning of Natural Polymers. Advanced Materials Interfaces, 0, , 2200454.	1.9	3
79	Photo-enzymatic dityrosine crosslinking for bioprinting. Polymer, 2022, , 124941.	1.8	3
80	Bioreactor type and operating conditions influence cell response to polymeric material properties. , 0, , .		2
81	Surface Treatment. , 2006, , 541-551.		2
82	A new experimental method to analyse the dewetting properties of polymer surfaces and cationic surfactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 206, 125-133.	2.3	1