

Devid Maniglio

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

1,923
citations

26
h-index

41
g-index

84
ext. papers

2,174
ext. citations

4.6
avg. IF

4.7
L-index

#	Paper	IF	Citations
81	The solid surface free energy calculation. I. In defense of the multicomponent approach. <i>Journal of Colloid and Interface Science</i> , 2004 , 271, 434-53	9.3	166
80	Role of chemical interactions in bacterial adhesion to polymer surfaces. <i>Biomaterials</i> , 2004 , 25, 2029-37	15.6	150
79	The determination of a stable-equilibrium contact angle on heterogeneous and rough surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 206, 47-67	5.1	97
78	Surface properties of silk fibroin films and their interaction with fibroblasts. <i>Macromolecular Bioscience</i> , 2005 , 5, 1175-83	5.5	86
77	The solid surface free energy calculation; II. The limits of the Zisman and of the "equation-of-state" approaches. <i>Journal of Colloid and Interface Science</i> , 2004 , 271, 454-72	9.3	78
76	Effects on interfacial properties and cell adhesion of surface modification by pectic hairy regions. <i>Biomacromolecules</i> , 2004 , 5, 2094-104	6.9	68
75	Genipin-modified silk-fibroin nanometric nets. <i>Macromolecular Bioscience</i> , 2008 , 8, 766-74	5.5	59
74	An electrohydrodynamic bioprinter for alginate hydrogels containing living cells. <i>Tissue Engineering - Part C: Methods</i> , 2015 , 21, 123-32	2.9	56
73	An Experimental Procedure to Obtain the Equilibrium Contact Angle from the Wilhelmy Method. <i>Oil and Gas Science and Technology</i> , 2001 , 56, 9-22	1.9	56
72	Silk Hydrogels of Tunable Structure and Viscoelastic Properties Using Different Chronological Orders of Genipin and Physical Cross-Linking. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12099-108	9.5	48
71	Biohybrid nanofiber constructs with anisotropic biomechanical properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 96, 276-86	3.5	47
70	Silk fibroin processing and thrombogenic responses. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009 , 20, 1875-97	3.5	47
69	Recent theoretical and experimental advancements in the application of van Oss-Chaudhury-Good acid-base theory to the analysis of polymer surfaces I. General aspects. <i>Journal of Adhesion Science and Technology</i> , 2003 , 17, 1477-1505	2	44
68	Luminescent graphene quantum dots from oxidized multi-walled carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2012 , 137, 12-16	4.4	42
67	Microencapsulation of cells in alginate through an electrohydrodynamic process. <i>Journal of Bioactive and Compatible Polymers</i> , 2013 , 28, 413-425	2	41
66	The application of the contact angle in monument protection: new materials and methods. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004 , 241, 299-312	5.1	40
65	A comparative study of the refractive index of silk protein thin films towards biomaterial based optical devices. <i>Optical Materials</i> , 2018 , 78, 407-414	3.3	37

64	Recent theoretical and experimental advancements in the application of the van Oss-Chaudhury-Good acid-base theory to the analysis of polymer surfaces II. Some peculiar cases. <i>Journal of Adhesion Science and Technology</i> , 2003 , 17, 1425-1456	2	35
63	Processing and characterization of diatom nanoparticles and microparticles as potential source of silicon for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2016 , 59, 471-479	8.3	32
62	Surface properties and blood compatibility of commercially available diamond-like carbon coatings for cardiovascular devices. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 90, 338-49	3.5	30
61	Folding and assembly of fibroin driven by an AC electric field: effects on film properties. <i>Macromolecular Bioscience</i> , 2008 , 8, 827-35	5.5	29
60	Hydroxyapatite nanorods: soft-template synthesis, characterization and preliminary in vitro tests. <i>Journal of Biomaterials Applications</i> , 2013 , 28, 49-61	2.9	28
59	Quantitative analysis of protein adsorption via atomic force microscopy and surface plasmon resonance. <i>Macromolecular Bioscience</i> , 2008 , 8, 1126-34	5.5	28
58	Electrodeposition of Silk Fibroin on Metal Substrates. <i>Journal of Bioactive and Compatible Polymers</i> , 2010 , 25, 441-454	2	27
57	One-step process to create porous structures in cross-linked polymer films via breath-figure formations during in situ cross-linking reactions. <i>Polymer</i> , 2011 , 52, 5102-5106	3.9	26
56	Preparation and Statistical Characterization of Tunable Porous Sponge Scaffolds using UV Cross-linking of Methacrylate-Modified Silk Fibroin. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 6374-6388	5.5	26
55	Fabrication of Nanoscale Patternable Films of Silk Fibroin Using Benign Solvents. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1700110	3.9	25
54	Silk fibroin porous scaffolds by NO foaming. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018 , 29, 491-506	3.5	25
53	Blood compatibility of polymers derived from natural materials. <i>Journal of Bioactive and Compatible Polymers</i> , 2012 , 27, 295-312	2	25
52	Gold nanoparticles 1D array as mechanochromic strain sensor. <i>Materials Chemistry and Physics</i> , 2017 , 192, 94-99	4.4	23
51	A Thermal-Reflow-Based Low-Temperature, High-Pressure Sintering of Lyophilized Silk Fibroin for the Fast Fabrication of Biosubstrates. <i>Advanced Functional Materials</i> , 2019 , 29, 1901134	15.6	21
50	Fabrication and characterizations of crosslinked porous polymer films with varying chemical compositions. <i>Polymer</i> , 2012 , 53, 3749-3755	3.9	20
49	Characterization of thiol-functionalized carbon nanotubes on gold surfaces. <i>Surface Science</i> , 2010 , 604, 1414-1419	1.8	20
48	Medical-Grade Silicone Coated with Rhamnolipid R89 Is Effective against spp. Biofilms. <i>Molecules</i> , 2019 , 24,	4.8	20
47	Effect of Cryopreservation on Cell-Laden Hydrogels: Comparison of Different Cryoprotectants. <i>Tissue Engineering - Part C: Methods</i> , 2018 , 24, 20-31	2.9	18

46	Assessing the impact of electrohydrodynamic jetting on encapsulated cell viability, proliferation, and ability to self-assemble in three-dimensional structures. <i>Tissue Engineering - Part C: Methods</i> , 2015 , 21, 631-8	2.9	15
45	Design and optimization of self-nanoemulsifying formulations for lipophilic drugs. <i>Nanotechnology</i> , 2015 , 26, 125102	3.4	15
44	Microfabrication of PDLLA scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011 , 5, 569-77	4.4	15
43	Inhibition of <i>Candida albicans</i> biofilm by lipopeptide AC7 coated medical-grade silicone in combination with farnesol. <i>AIMS Bioengineering</i> , 2018 , 5, 192-208	3.4	15
42	Deformable molecularly imprinted nanogels permit sensitivity-gain in plasmonic sensing. <i>Biosensors and Bioelectronics</i> , 2020 , 156, 112126	11.8	13
41	Functional role of scaffold geometries as a template for physiological ECM formation: evaluation of collagen 3D assembly. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013 , 7, 161-8	4.4	13
40	Spider (<i>Linothele megatheloides</i>) and silkworm (<i>Bombyx mori</i>) silks: Comparative physical and biological evaluation. <i>Materials Science and Engineering C</i> , 2020 , 107, 110197	8.3	13
39	Breath figures decorated silica-based ceramic surfaces with tunable geometry from UV cross-linkable polysiloxane precursor. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1320-1326	6	12
38	Carbon coatings for cardiovascular applications: physico-chemical properties and blood compatibility. <i>Journal of Biomaterials Applications</i> , 2010 , 25, 57-74	2.9	12
37	Amphiphilic copolymers in biomedical applications: Synthesis routes and property control. <i>Materials Science and Engineering C</i> , 2021 , 123, 111952	8.3	12
36	Molecular connectivity methods for the characterization of surface energetics of liquids and polymers. <i>Journal of Colloid and Interface Science</i> , 2006 , 296, 292-308	9.3	11
35	Inhibitory Effects of Lipopeptides and Glycolipids on spp. Dual-Species Biofilms. <i>Frontiers in Microbiology</i> , 2020 , 11, 545654	5.7	11
34	Theranostic gold-magnetite hybrid nanoparticles for MRI-guided radiosensitization. <i>Nanotechnology</i> , 2018 , 29, 315101	3.4	11
33	Coaxial PCL/PEG-thiol-ene microfiber with tunable physico-chemical properties for regenerative scaffolds. <i>Biomaterials Science</i> , 2019 , 7, 3640-3651	7.4	10
32	Oleic acid surfactant in polycaprolactone/hydroxyapatite-composites for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 1076-82	3.5	10
31	Dental Implants with Anti-Biofilm Properties: A Pilot Study for Developing a New Sericin-Based Coating. <i>Materials</i> , 2019 , 12,	3.5	10
30	Additively manufactured Ti-6Al-4V thin struts via laser powder bed fusion: Effect of building orientation on geometrical accuracy and mechanical properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 119, 104495	4.1	10
29	A combined method for bilayered vascular graft fabrication. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 96	4.5	9

28	Testing Surgical Face Masks in an Emergency Context: The Experience of Italian Laboratories during the COVID-19 Pandemic Crisis. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	9
27	From honeycomb- to microsphere-patterned surfaces of poly(lactic acid) and a starch-poly(lactic acid) blend via the breath figure method. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2017 , 15, e31-e42	1.8	6
26	Comparative methods for the evaluation of protein adsorption. <i>Macromolecular Bioscience</i> , 2009 , 9, 661-70	3.9	6
25	Development of pH-sensitive self-nanoemulsifying drug delivery systems for acid-labile lipophilic drugs. <i>Chemistry and Physics of Lipids</i> , 2016 , 196, 81-8	3.7	6
24	Modulating the release of drugs from alginate matrices with the addition of gelatin microbeads. <i>Journal of Bioactive and Compatible Polymers</i> , 2014 , 29, 193-207	2	5
23	Alginate Hydrogels: A Tool for 3D Cell Encapsulation, Tissue Engineering, and Biofabrication. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1250, 49-61	3.6	5
22	Rhamnolipid coating reduces microbial biofilm formation on titanium implants: an in vitro study. <i>BMC Oral Health</i> , 2021 , 21, 49	3.7	5
21	Sodium oleate induced rapid gelation of silk fibroin. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018 , 29, 1219-1231	3.5	4
20	Hydrophobic Coatings by Thiol-Ene Click Functionalization of Silsesquioxanes with Tunable Architecture. <i>Materials</i> , 2017 , 10,	3.5	3
19	A New Cells-Compatible Microfluidic Device for Single Channel Recordings. <i>Electroanalysis</i> , 2014 , 26, 1653-1659	3	3
18	Polyelectrolytes-coated gold nanoparticles detection by PEDOT:PSS electrochemical transistors. <i>Organic Electronics</i> , 2012 , 13, 1716-1721	3.5	3
17	Molecularly Imprinted Silk Fibroin Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 31431-31439	3.3	3
16	Plasma-Assisted Deposition of Silk Fibroin on Different Surfaces. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100324	4.6	3
15	Breath Figures decorated silicon oxinitride ceramic surfaces with controlled Si ions release for enhanced osteoinduction. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 1284-1294	3.5	3
14	Soluble collagen dissolution and assembling in pressurized carbon dioxide water solutions. <i>EXPRESS Polymer Letters</i> , 2018 , 12, 159-170	3.4	3
13	Bioreactor type and operating conditions influence cell response to polymeric material properties		2
12	Preliminary evaluation of the production of non-carrier added Ag as core of a therapeutic radiopharmaceutical in the framework of ISOLPHARM_Ag experiment. <i>Applied Radiation and Isotopes</i> , 2020 , 164, 109258	1.7	2
11	Ultrasound-Assisted Hydroxyapatite-Decorated Breath-Figure Polymer-Derived Ceramic Coatings for Ti6Al4V Substrates. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 50772-50783	9.5	2

10	Surface Treatment 2006 , 541-551		2
9	On the Effect of Soft Molecularly Imprinted Nanoparticles Receptors Combined to Nanoplasmonic Probes for Biomedical Applications.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 801489	5.8	2
8	Atmospheric Plasma-Assisted Deposition and Patterning of Natural Polymers. <i>Advanced Materials Interfaces</i> , 2200454	4.6	2
7	A new experimental method to analyse the dewetting properties of polymer surfaces and cationic surfactants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 206, 125-133	5.1	1
6	BioMIPs: molecularly imprinted silk fibroin nanoparticles to recognize the iron regulating hormone hepcidin.. <i>Mikrochimica Acta</i> , 2022 , 189, 66	5.8	1
5	A genipin crosslinked silk fibroin monolith by compression molding with recovering mechanical properties in physiological conditions. <i>Cell Reports Physical Science</i> , 2021 , 2, 100605	6.1	1
4	On the effect of the node and building orientation on the fatigue behavior of L-PBF Ti6Al4V lattice structure sub-unital elements. <i>Material Design and Processing Communications</i> , 2021 , 3, e258	0.9	1
3	A novel and selective silk fibroin fragmentation method. <i>Soft Matter</i> , 2021 , 17, 6863-6872	3.6	1
2	Photo-enzymatic dityrosine crosslinking for bioprinting. <i>Polymer</i> , 2022 , 124941	3.9	1
1	Imaging the Morphological Structure of Silk Fibroin Constructs through Fluorescence Energy Transfer and Confocal Microscopy. <i>Electronic Materials</i> , 2021 , 2, 186-197	0.8	0