

Francisco Fernandes

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,437
citations

393982

19
h-index

329751

37
g-index

46
all docs

46
docs citations

46
times ranked

2171
citing authors

#	ARTICLE	IF	CITATIONS
1	Water-mediated structuring of bone apatite. <i>Nature Materials</i> , 2013, 12, 1144-1153.	13.3	250
2	Fibrous clays based bionanocomposites. <i>Progress in Polymer Science</i> , 2013, 38, 1392-1414.	11.8	209
3	Supported Graphene from Natural Resources: Easy Preparation and Applications. <i>Advanced Materials</i> , 2011, 23, 5250-5255.	11.1	149
4	Preservation of biomaterials and cells by freeze-drying: Change of paradigm. <i>Journal of Controlled Release</i> , 2021, 336, 480-498.	4.8	62
5	Gelatin-Clay Bio-Nanocomposites: Structural and Functional Properties as Advanced Materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 221-229.	0.9	52
6	Integrative strategies to hybrid lamellar compounds: an integration challenge. <i>Applied Clay Science</i> , 2014, 100, 2-21.	2.6	48
7	Topotactic Fibrillogenesis of Freeze-Cast Microridged Collagen Scaffolds for 3D Cell Culture. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14672-14683.	4.0	46
8	Gelatin renaturation and the interfacial role of fillers in bionanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4901-4910.	1.3	43
9	Multifunctional Porous Materials Through Ferrofluids. <i>Advanced Materials</i> , 2011, 23, 5224-5228.	11.1	42
10	Recent advances in ice templating: from biomimetic composites to cell culture scaffolds and tissue engineering. <i>Journal of Materials Chemistry B</i> , 2021, 9, 889-907.	2.9	39
11	Plant cell wall inspired xyloglucan/cellulose nanocrystals aerogels produced by freeze-casting. <i>Carbohydrate Polymers</i> , 2020, 247, 116642.	5.1	38
12	Self-Assembly in Biosilicification and Biotemplated Silica Materials. <i>Nanomaterials</i> , 2014, 4, 792-812.	1.9	33
13	Design and preparation of bionanocomposites based on layered solids with functional and structural properties. <i>Materials Science and Technology</i> , 2008, 24, 1100-1110.	0.8	32
14	Assembling nanotubes and nanofibres: Cooperativeness in sepiolite-carbon nanotube materials. <i>Carbon</i> , 2014, 72, 296-303.	5.4	32
15	The Meeting Point of Carbonaceous Materials and Clays: Toward a New Generation of Functional Composites. <i>Advanced Functional Materials</i> , 2018, 28, 1704323.	7.8	32
16	Microsphere Solid-State Biolasers. <i>Advanced Optical Materials</i> , 2017, 5, 1601022.	3.6	31
17	Silica-Sepiolite Nanoarchitectures. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 2897-2907.	0.9	30
18	General Contribution of Nonspecific Interactions to Fluorescence Intensity. <i>Analytical Chemistry</i> , 2006, 78, 3699-3705.	3.2	21

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19	Progress in Bionanocomposites: From green plastics to biomedical applications. <i>Progress in Polymer Science</i> , 2013, 38, 1391.	11.8	21
20	Ice-templating beet-root pectin foams: Controlling texture, mechanics and capillary properties. <i>Chemical Engineering Journal</i> , 2018, 350, 20-28.	6.6	20
21	Soft lamellar solid foams from ice-templating of self-assembled lipid hydrogels: organization drives the mechanical properties. <i>Materials Horizons</i> , 2019, 6, 2073-2086.	6.4	20
22	The 1,3-Dipolar Cycloaddition Reaction in the Functionalization of Carbon Nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 3441-3445.	0.9	18
23	Fibrous Clay Mineral-Polymer Nanocomposites. <i>Developments in Clay Science</i> , 2013, 5, 721-741.	0.3	17
24	Cellularized Cellular Solids via Freeze-Casting. <i>Macromolecular Bioscience</i> , 2016, 16, 182-187.	2.1	16
25	Conducting macroporous carbon foams derived from microwave-generated caramel/silica gel intermediates. <i>Journal of Materials Science</i> , 2017, 52, 11269-11281.	1.7	15
26	Functionalization of Carbon Nanofibers by a Diels-Alder Addition Reaction. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 3514-3518.	0.9	13
27	Sepiolite-Hydrogels: Synthesis by Ultrasound Irradiation and Their Use for the Preparation of Functional Clay-Based Nanoarchitected Materials. <i>Frontiers in Chemistry</i> , 2021, 9, 733105.	1.8	12
28	Self-Assembled Collagen Microparticles by Aerosol as a Versatile Platform for Injectable Anisotropic Materials. <i>Small</i> , 2020, 16, e1902224.	5.2	11
29	Elastic properties of natural single nanofibres. <i>RSC Advances</i> , 2014, 4, 11225.	1.7	10
30	Colonization versus encapsulation in cell-laden materials design: porosity and process biocompatibility determine cellularization pathways. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200344.	1.6	10
31	Advanced biohybrid materials based on nanoclays for biomedical applications. <i>Proceedings of SPIE</i> , 2012, , .	0.8	9
32	New Nitrogen Compounds Coupled to Phenolic Units with Antioxidant and Antifungal Activities: Synthesis and Structure-Activity Relationship. <i>Molecules</i> , 2018, 23, 2530.	1.7	9
33	Phenolic Imidazole Derivatives with Dual Antioxidant/Antifungal Activity: Synthesis and Structure-Activity Relationship. <i>Medicinal Chemistry</i> , 2019, 15, 341-351.	0.7	9
34	Synthesis and electrochemical evaluation of substituted imidazo[4,5-d]pyrrolo[3,2-f][1,3] diazepine scaffolds. <i>Tetrahedron</i> , 2012, 68, 4628-4634.	1.0	8
35	Unveiling the Interstitial Pressure between Growing Ice Crystals during Ice-Templating Using a Lipid Lamellar Probe. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1989-1997.	2.1	8
36	Unveiling Cells' Local Environment during Cryopreservation by Correlative <i>In Situ</i> Spatial and Thermal Analyses. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7730-7738.	2.1	6

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37	Biomimetic Silk Macroporous Materials for Drug Delivery Obtained via Ice-Templating. ACS Applied Bio Materials, 2022, 5, 2556-2566.	2.3	6
38	Immobilization of Proteins in Biopolymer-Silica Hybrid Materials: Functional Properties and Applications. Current Organic Chemistry, 2015, 19, 1669-1676.	0.9	4
39	Water/ice phase transition: The role of zirconium acetate, a compound with ice-shaping properties. Journal of Chemical Physics, 2017, 146, 144504.	1.2	3
40	Biomimetic Tough Gels with Weak Bonds Unravel the Role of Collagen from Fibril to Suprafibrillar Self-Assembly. Macromolecular Bioscience, 2021, 21, 2000435.	2.1	3
41	Guest editors'™ preface. Journal of Materials Science, 2017, 52, 11121-11123.	1.7	0