

Francisco Fernandes

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,437
citations

394421

19
h-index

330143

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.	27.5	250
2	Fibrous clays based bionanocomposites. <i>Progress in Polymer Science</i> , 2013, 38, 1392-1414.	24.7	209
3	Supported Graphene from Natural Resources: Easy Preparation and Applications. <i>Advanced Materials</i> , 2011, 23, 5250-5255.	21.0	149
4	Preservation of biomaterials and cells by freeze-drying: Change of paradigm. <i>Journal of Controlled Release</i> , 2021, 336, 480-498.	9.9	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.	5.2	48
7	Topotactic Fibrillogenesis of Freeze-Cast Microridged Collagen Scaffolds for 3D Cell Culture. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14672-14683.	8.0	46
8	Gelatin renaturation and the interfacial role of fillers in bionanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4901-4910.	2.8	43
9	Multifunctional Porous Materials Through Ferrofluids. <i>Advanced Materials</i> , 2011, 23, 5224-5228.	21.0	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.	5.8	39
11	Plant cell wall inspired xyloglucan/cellulose nanocrystals aerogels produced by freeze-casting. <i>Carbohydrate Polymers</i> , 2020, 247, 116642.	10.2	38
12	Self-Assembly in Biosilicification and Biotemplated Silica Materials. <i>Nanomaterials</i> , 2014, 4, 792-812.	4.1	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.	1.6	32
14	Assembling nanotubes and nanofibres: Cooperativeness in sepiolite-carbon nanotube materials. <i>Carbon</i> , 2014, 72, 296-303.	10.3	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.	14.9	32
16	Microsphere Solid-State Biolasers. <i>Advanced Optical Materials</i> , 2017, 5, 1601022.	7.3	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.	6.5	21

#	ARTICLE	IF	CITATIONS
19	Progress in Bionanocomposites: From green plastics to biomedical applications. Progress in Polymer Science, 2013, 38, 1391.	24.7	21
20	Ice-templating beet-root pectin foams: Controlling texture, mechanics and capillary properties. Chemical Engineering Journal, 2018, 350, 20-28.	12.7	20
21	Soft lamellar solid foams from ice-templating of self-assembled lipid hydrogels: organization drives the mechanical properties. Materials Horizons, 2019, 6, 2073-2086.	12.2	20
22	The 1,3-Dipolar Cycloaddition Reaction in the Functionalization of Carbon Nanofibers. Journal of Nanoscience and Nanotechnology, 2007, 7, 3441-3445.	0.9	18
23	Fibrous Clay Mineralâ€“Polymer Nanocomposites. Developments in Clay Science, 2013, 5, 721-741.	0.5	17
24	Cellularized Cellular Solids via Freezeâ€“Casting. Macromolecular Bioscience, 2016, 16, 182-187.	4.1	16
25	Conducting macroporous carbon foams derived from microwave-generated caramel/silica gel intermediates. Journal of Materials Science, 2017, 52, 11269-11281.	3.7	15
26	Functionalization of Carbon Nanofibers by a Diels-Alder Addition Reaction. Journal of Nanoscience and Nanotechnology, 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. Frontiers in Chemistry, 2021, 9, 733105.	3.6	12
28	Selfâ€“Assembled Collagen Microparticles by Aerosol as a Versatile Platform for Injectable Anisotropic Materials. Small, 2020, 16, e1902224.	10.0	11
29	Elastic properties of natural single nanofibres. RSC Advances, 2014, 4, 11225.	3.6	10
30	Colonization versus encapsulation in cell-laden materials design: porosity and process biocompatibility determine cellularization pathways. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200344.	3.4	10
31	Advanced biohybrid materials based on nanoclays for biomedical applications. Proceedings of SPIE, 2012, , .	0.8	9
32	New Nitrogen Compounds Coupled to Phenolic Units with Antioxidant and Antifungal Activities: Synthesis and Structureâ€“Activity Relationship. Molecules, 2018, 23, 2530.	3.8	9
33	Phenolic Imidazole Derivatives with Dual Antioxidant/Antifungal Activity: Synthesis and Structure-Activity Relationship. Medicinal Chemistry, 2019, 15, 341-351.	1.5	9
34	Synthesis and electrochemical evaluation of substituted imidazo[4,5-d]pyrrolo[3,2-f][1,3] diazepine scaffolds. Tetrahedron, 2012, 68, 4628-4634.	1.9	8
35	Unveiling the Interstitial Pressure between Growing Ice Crystals during Ice-Templating Using a Lipid Lamellar Probe. Journal of Physical Chemistry Letters, 2020, 11, 1989-1997.	4.6	8
36	Unveiling Cellsâ€™ Local Environment during Cryopreservation by Correlative <i>In Situ</i> Spatial and Thermal Analyses. Journal of Physical Chemistry Letters, 2020, 11, 7730-7738.	4.6	6

#	ARTICLE	IF	CITATIONS
37	Biomimetic Silk Macroporous Materials for Drug Delivery Obtained via Ice-Templating. ACS Applied Bio Materials, 2022, 5, 2556-2566.	4.6	6
38	Immobilization of Proteins in Biopolymer-Silica Hybrid Materials: Functional Properties and Applications. Current Organic Chemistry, 2015, 19, 1669-1676.	1.6	4
39	Water/ice phase transition: The role of zirconium acetate, a compound with ice-shaping properties. Journal of Chemical Physics, 2017, 146, 144504.	3.0	3
40	Biomimetic Tough Gels with Weak Bonds Unravel the Role of Collagen from Fibril to Suprafibrillar Self-Assembly. Macromolecular Bioscience, 2021, 21, 2000435.	4.1	3
41	Guest editors'™ preface. Journal of Materials Science, 2017, 52, 11121-11123.	3.7	0