Mateus Borba Cardoso

List of Publications by Year
in descending order

74 papers	1,985 citations	201674 27 h-index	276875 41 g-index
75 all docs	75 docs citations	75 times ranked	3213 citing authors

#	Article	IF	Citations
1	Tailored Silicaâ€"Antibiotic Nanoparticles: Overcoming Bacterial Resistance with Low Cytotoxicity. Langmuir, 2014, 30, 7456-7464.	3.5	97
2	Functionalized Silica Nanoparticles As an Alternative Platform for Targeted Drug-Delivery of Water Insoluble Drugs. Langmuir, 2016, 32, 3217-3225.	3.5	94
3	Size-selective silver nanoparticles: future of biomedical devices with enhanced bactericidal properties. Journal of Materials Chemistry, 2011, 21, 12267.	6.7	90
4	Viral Inhibition Mechanism Mediated by Surface-Modified Silica Nanoparticles. ACS Applied Materials & Interfaces, 2016, 8, 16564-16572.	8.0	81
5	Influence of alkali concentration on the deproteinization and/or gelatinization of rice starch. Carbohydrate Polymers, 2007, 70, 160-165.	10.2	70
6	Optical paper-based sensor for ascorbic acid quantification using silver nanoparticles. Talanta, 2015, 141, 188-194.	5.5	66
7	Single Crystals of V-Amylose Complexed with Î±-Naphthol. Biomacromolecules, 2007, 8, 1319-1326.	5.4	61
8	Molecular and Crystal Structure of 7-Fold V-Amylose Complexed with 2-Propanol. Macromolecules, 2010, 43, 8628-8636.	4.8	59
9	Effect of the Alkaline Treatment on the Ultrastructure of C-Type Starch Granules. Biomacromolecules, 2008, 9, 1894-1901.	5.4	55
10	The cold storage of green bananas affects the starch degradation during ripening at higher temperature. Carbohydrate Polymers, 2013, 96, 137-147.	10.2	55
11	Partial Aggregation of Silver Nanoparticles Induced by Capping and Reducing Agents Competition. Langmuir, 2014, 30, 4879-4886.	3.5	51
12	Plantain and Banana Starches: Granule Structural Characteristics Explain the Differences in Their Starch Degradation Patterns. Journal of Agricultural and Food Chemistry, 2011, 59, 6672-6681.	5.2	48
13	On the lamellar width distributions of starch. Carbohydrate Polymers, 2010, 81, 21-28.	10.2	44
14	Gramâ€Negative Bacteria Targeting Mediated by Carbohydrateâ€"Carbohydrate Interactions Induced by Surfaceâ€Modified Nanoparticles. Advanced Functional Materials, 2019, 29, 1904216.	14.9	43
15	Shape Tailored Magnetic Nanorings for Intracellular Hyperthermia Cancer Therapy. Scientific Reports, 2017, 7, 14843.	3.3	41
16	Tailoring the Antimicrobial Response of Cationic Nanocellulose-Based Foams through Cryo-Templating. ACS Applied Bio Materials, 2019, 2, 1975-1986.	4.6	41
17	Role of Asphaltenes and Additives on the Viscosity and Microscopic Structure of Heavy Crude Oils. Energy & Fuels, 2016, 30, 3644-3651.	5.1	40
18	Protein Localization in Silica Nanospheres Derived via Biomimetic Mineralization. Advanced Functional Materials, 2010, 20, 3031-3038.	14.9	36

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19	In vivo degradation of banana starch: Structural characterization of the degradation process. Carbohydrate Polymers, 2010, 81, 291-299.	10.2	35
20	Structural Evaluation of Phospholipidic Nanovesicles Containing Small Amounts of Chitosan. Journal of Nanoscience and Nanotechnology, 2006, 6, 2425-2431.	0.9	34
21	ESIPT-exhibiting protein probes: a sensitive method for rice proteins detection during starchextraction. Photochemical and Photobiological Sciences, 2007, 6, 99-102.	2.9	34
22	Insight into the Structure of Light-Harvesting Complex II and Its Stabilization in Detergent Solution. Journal of Physical Chemistry B, 2009, 113, 16377-16383.	2.6	34
23	Defeating Bacterial Resistance and Preventing Mammalian Cells Toxicity Through Rational Design of Antibiotic-Functionalized Nanoparticles. Scientific Reports, 2017, 7, 1326.	3.3	33
24	Study of Protein Detection and Ultrastructure of Brazilian Rice Starch during Alkaline Extraction. Starch/Staerke, 2006, 58, 345-352.	2.1	32
25	Echinococcus granulosus Antigen B Structure: Subunit Composition and Oligomeric States. PLoS Neglected Tropical Diseases, 2012, 6, e1551.	3.0	32
26	Helical Conformation in Crystalline Inclusion Complexes of Vâ€Amylose: A Historical Perspective. Macromolecular Symposia, 2011, 303, 1-9.	0.7	31
27	Dual Functionalization of Nanoparticles for Generating Corona-Free and Noncytotoxic Silica Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 41917-41923.	8.0	31
28	Mechanism of interaction between colloids and bacteria as evidenced by tailored silicaâ€"lysozyme composites. Journal of Materials Chemistry, 2012, 22, 22851.	6.7	30
29	Freeze-drying of silica nanoparticles: redispersibility toward nanomedicine applications. Nanomedicine, 2018, 13, 179-190.	3.3	30
30	Monitoring the Surface Chemistry of Functionalized Nanomaterials with a Microfluidic Electronic Tongue. ACS Sensors, 2018, 3, 716-726.	7.8	28
31	Colloidal Stability and Redispersibility of Mesoporous Silica Nanoparticles in Biological Media. Langmuir, 2020, 36, 11442-11449.	3.5	27
32	Inside the Protein Corona: From Binding Parameters to Unstained Hard and Soft Coronas Visualization. Nano Letters, 2021, 21, 8250-8257.	9.1	27
33	The effect of the solâ€"gel route on the characteristics of acidâ€"base sensors. Sensors and Actuators B: Chemical, 2010, 151, 169-176.	7.8	26
34	Stability of gum arabic-gold nanoparticles in physiological simulated pHs and their selective effect on cell lines. RSC Advances, 2016, 6, 9411-9420.	3.6	26
35	Single Crystals of Vâ€Amylose Inclusion Complexes. Macromolecular Symposia, 2008, 273, 1-8.	0.7	25
36	Effect of particle functionalization and solution properties on the adsorption of bovine serum albumin and lysozyme onto silica nanoparticles. Colloids and Surfaces B: Biointerfaces, 2020, 186, 110677.	5.0	24

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37	Self-assembly and structural characterization of Echinococcus granulosus antigen B recombinant subunit oligomers. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 278-285.	2.3	22
38	Size control of highly ordered HfO₂nanotube arrays and a possible growth mechanism. Nanotechnology, 2009, 20, 455601.	2.6	21
39	Silica imprinted materials containing pharmaceuticals as a template: textural aspects. Journal of Sol-Gel Science and Technology, 2012, 64, 324-334.	2.4	21
40	Using Atomic Force Microscopy To Detect Asphaltene Colloidal Particles in Crude Oils. Energy & Fuels, 2017, 31, 3738-3746.	5.1	20
41	Shielding and stealth effects of zwitterion moieties in double-functionalized silica nanoparticles. Journal of Colloid and Interface Science, 2019, 553, 540-548.	9.4	20
42	A comprehensive study of the relation between structural and physical chemical properties of acacia gums. Food Hydrocolloids, 2018, 85, 167-175.	10.7	17
43	Colloidal stability and degradability of silica nanoparticles in biological fluids: a review. Journal of Sol-Gel Science and Technology, 2022, 102, 41-62.	2.4	17
44	Supramolecular assembly of biohybrid photoconversion systems. Energy and Environmental Science, 2011, 4, 181-188.	30.8	16
45	Supercritical CO2â€“organosilane mixtures for modification of silica: Applications to epoxy prepolymer matrix. Chemical Engineering Journal, 2014, 241, 103-111.	12.7	16
46	Silicaâ€“Maltose Composites: Obtaining Drug Carrier Systems Through Tailored Ultrastructural Nanoparticles. Journal of Pharmaceutical Sciences, 2011, 100, 2826-2834.	3.3	15
47	Evidences of amylose coil-to-helix transition in stored dilute solutions. Polymer, 2008, 49, 4386-4392.	3.8	13
48	Biomolecular corona formation: nature and bactericidal impact on surface-modified silica nanoparticles. Journal of Materials Chemistry B, 2017, 5, 8052-8059.	5.8	13
49	Tailoring Pseudo-Zwitterionic Bifunctionalized Silica Nanoparticles: From Colloidal Stability to Biological Interactions. Langmuir, 2020, 36, 10756-10763.	3.5	13
50	Nanoparticleâ€“Protein Interaction: Demystifying the Correlation between Protein Corona and Aggregation Phenomena. ACS Applied Materials & Interfaces, 2022, 14, 28559-28569.	8.0	13
51	Direct Assessment of Inhibitor and Solvent Effects on the Deposition Mechanism of Asphaltenes in a Brazilian Crude Oil. Energy & Fuels, 2019, 33, 4748-4757.	5.1	12
52	Correlating the Morphological Properties and Structural Organization of Monodisperse Spherical Silica Nanoparticles Grown on a Commercial Silica Surface. ChemPhysChem, 2015, 16, 2981-2994.	2.1	9
53	Protein corona meets freeze-drying: overcoming the challenges of colloidal stability, toxicity, and opsonin adsorption. Nanoscale, 2021, 13, 753-762.	5.6	9
54	Solâ€“gel preparation of aminopropyl-silica-magnesia hybrid materials. Journal of Sol-Gel Science and Technology, 2011, 59, 135-144.	2.4	8

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55	Sweeter But Deadlier: Decoupling Size, Charge and Capping Effects in Carbohydrate Coated Bactericidal Silver Nanoparticles. Journal of Biomedical Nanotechnology, 2013, 9, 1817-1826.	1.1	8
56	Nanometric organisation in blends of gellan/xyloglucan hydrogels. Carbohydrate Polymers, 2014, 114, 48-56.	10.2	8
57	Silica Nanoparticle Applications in the Biomedical Field. , 2018, , 115-129.		8
58	Macromolecular Viral Entry Inhibitors as Broadâ€Spectrum Firstâ€Line Antivirals with Activity against SARSâ€CoVâ€2. Advanced Science, 2022, 9, e2201378.	11.2	8
59	Accessing the hidden lamellar nanostructure of semi-crystalline nascent polymers by small-angle X-ray scattering contrast variation. Journal of Applied Crystallography, 2011, 44, 1123-1126.	4.5	7
60	Tailored Silica Nanoparticles Surface to Increase Drug Load and Enhance Bactericidal Response. Journal of the Brazilian Chemical Society, 2017, , .	0.6	7
61	Dose-dependent cell necrosis induced by silica nanoparticles. Toxicology in Vitro, 2020, 63, 104723.	2.4	7
62	Selective Synthesis of Silver Nanoparticles onto Potassium Hexaniobate: Structural Organisation with Bactericidal Properties. ChemPhysChem, 2013, 14, 4075-4083.	2.1	6
63	Tetracycline@silver ions-functionalized mesoporous silica for high bactericidal activity at ultra-low concentration. Nanomedicine, 2018, 13, 1731-1751.	3.3	6
64	Nano-targeting lessons from the SARS-CoV-2. Nano Today, 2021, 36, 101012.	11.9	6
65	Chemically modified silica-based sensors: Effect of the nature of organosilane. Sensors and Actuators B: Chemical, 2019, 282, 798-808.	7.8	5
66	Characterization of Morphology and Active Agent Mobility within Hybrid Silica Solâ€"Gel Composites. Journal of Physical Chemistry C, 2012, 116, 13972-13979.	3.1	4
67	Are antibiotic-functionalized nanoparticles a promising tool in antimicrobial therapies?. Nanomedicine, 2017, 12, 2587-2590.	3.3	4
68	Selective Targeting of Lymphoma Cells by Monoclonal Antibody Grafted onto Zwitterionicâ€Functionalized Nanoparticles. Particle and Particle Systems Characterization, 2020, 37, 1900446.	2.3	4
69	Degradable Hollow Organosilica Nanoparticles for Antibacterial Activity. ACS Omega, 2019, 4, 1479-1486.	3.5	3
70	Precision medicine based on nanoparticles: the paradigm between targeting and colloidal stability. Nanomedicine, 2021, 16, 1451-1456.	3.3	3
71	Degradable and colloidally stable zwitterionic-functionalized silica nanoparticles. Nanomedicine, 2021, 16, 85-96.	3.3	2
72	Investigation of detergent effects on the solution structure of spinach Light Harvesting Complex II. Journal of Physics: Conference Series, 2010, 251, 012041.	0.4	1

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73	A nano perspective behind the COVID-19 pandemic. Nanoscale Horizons, 2021, 6, 842-855.	8.0	1
74	Competitive Protein Adsorption on Charge Regulating Silica-Like Surfaces: The Role of Protonation Equilibrium. Journal of Physics Condensed Matter, 2022, , .	1.8	1