Mateus Borba Cardoso

List of Publications by Year
in descending order

74 papers	1,985 citations	201658 27 h-index	276858 41 g-index
75 all docs	75 docs citations	75 times ranked	3213 citing authors

#	Article	IF	Citations
1	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
2	Competitive Protein Adsorption on Charge Regulating Silica-Like Surfaces: The Role of Protonation Equilibrium. Journal of Physics Condensed Matter, 2022, , .	1.8	1
3	Macromolecular Viral Entry Inhibitors as Broadâ€Spectrum Firstâ€Line Antivirals with Activity against SARSâ€CoVâ€2. Advanced Science, 2022, 9, e2201378.	11.2	8
4	Nanoparticleâ€"Protein Interaction: Demystifying the Correlation between Protein Corona and Aggregation Phenomena. ACS Applied Materials & Interfaces, 2022, 14, 28559-28569.	8.0	13
5	Protein corona meets freeze-drying: overcoming the challenges of colloidal stability, toxicity, and opsonin adsorption. Nanoscale, 2021, 13, 753-762.	5.6	9
6	Nano-targeting lessons from the SARS-CoV-2. Nano Today, 2021, 36, 101012.	11.9	6
7	A nano perspective behind the COVID-19 pandemic. Nanoscale Horizons, 2021, 6, 842-855.	8.0	1
8	Precision medicine based on nanoparticles: the paradigm between targeting and colloidal stability. Nanomedicine, 2021, 16, 1451-1456.	3.3	3
9	Inside the Protein Corona: From Binding Parameters to Unstained Hard and Soft Coronas Visualization. Nano Letters, 2021, 21, 8250-8257.	9.1	27
10	Degradable and colloidally stable zwitterionic-functionalized silica nanoparticles. Nanomedicine, 2021, 16, 85-96.	3.3	2
11	Dose-dependent cell necrosis induced by silica nanoparticles. Toxicology in Vitro, 2020, 63, 104723.	2.4	7
12	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
13	Tailoring Pseudo-Zwitterionic Bifunctionalized Silica Nanoparticles: From Colloidal Stability to Biological Interactions. Langmuir, 2020, 36, 10756-10763.	3.5	13
14	Colloidal Stability and Redispersibility of Mesoporous Silica Nanoparticles in Biological Media. Langmuir, 2020, 36, 11442-11449.	3.5	27
15	Selective Targeting of Lymphoma Cells by Monoclonal Antibody Grafted onto Zwitterionicâ€Functionalized Nanoparticles. Particle and Particle Systems Characterization, 2020, 37, 1900446.	2.3	4
16	Gramâ€Negative Bacteria Targeting Mediated by Carbohydrateâ€"Carbohydrate Interactions Induced by Surfaceâ€Modified Nanoparticles. Advanced Functional Materials, 2019, 29, 1904216.	14.9	43
17	Degradable Hollow Organosilica Nanoparticles for Antibacterial Activity. ACS Omega, 2019, 4, 1479-1486.	3.5	3
18	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

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19	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
20	Tailoring the Antimicrobial Response of Cationic Nanocellulose-Based Foams through Cryo-Templating. ACS Applied Bio Materials, 2019, 2, 1975-1986.	4.6	41
21	Chemically modified silica-based sensors: Effect of the nature of organosilane. Sensors and Actuators B: Chemical, 2019, 282, 798-808.	7.8	5
22	Monitoring the Surface Chemistry of Functionalized Nanomaterials with a Microfluidic Electronic Tongue. ACS Sensors, 2018, 3, 716-726.	7.8	28
23	Freeze-drying of silica nanoparticles: redispersibility toward nanomedicine applications. Nanomedicine, 2018, 13, 179-190.	3.3	30
24	Dual Functionalization of Nanoparticles for Generating Corona-Free and Noncytotoxic Silica Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 41917-41923.	8.0	31
25	Silica Nanoparticle Applications in the Biomedical Field. , 2018, , 115-129.		8
26	Tetracycline@silver ions-functionalized mesoporous silica for high bactericidal activity at ultra-low concentration. Nanomedicine, 2018, 13, 1731-1751.	3.3	6
27	A comprehensive study of the relation between structural and physical chemical properties of acacia gums. Food Hydrocolloids, 2018, 85, 167-175.	10.7	17
28	Defeating Bacterial Resistance and Preventing Mammalian Cells Toxicity Through Rational Design of Antibiotic-Functionalized Nanoparticles. Scientific Reports, 2017, 7, 1326.	3.3	33
29	Using Atomic Force Microscopy To Detect Asphaltene Colloidal Particles in Crude Oils. Energy & Fuels, 2017, 31, 3738-3746.	5.1	20
30	Biomolecular corona formation: nature and bactericidal impact on surface-modified silica nanoparticles. Journal of Materials Chemistry B, 2017, 5, 8052-8059.	5.8	13
31	Shape Tailored Magnetic Nanorings for Intracellular Hyperthermia Cancer Therapy. Scientific Reports, 2017, 7, 14843.	3.3	41
32	Are antibiotic-functionalized nanoparticles a promising tool in antimicrobial therapies?. Nanomedicine, 2017, 12, 2587-2590.	3.3	4
33	Tailored Silica Nanoparticles Surface to Increase Drug Load and Enhance Bactericidal Response. Journal of the Brazilian Chemical Society, 2017, , .	0.6	7
34	Functionalized Silica Nanoparticles As an Alternative Platform for Targeted Drug-Delivery of Water Insoluble Drugs. Langmuir, 2016, 32, 3217-3225.	3.5	94
35	Viral Inhibition Mechanism Mediated by Surface-Modified Silica Nanoparticles. ACS Applied Materials & Interfaces, 2016, 8, 16564-16572.	8.0	81
36	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

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37	Role of Asphaltenes and Additives on the Viscosity and Microscopic Structure of Heavy Crude Oils. Energy & Fuels, 2016, 30, 3644-3651.	5.1	40
38	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
39	Optical paper-based sensor for ascorbic acid quantification using silver nanoparticles. Talanta, 2015, 141, 188-194.	5.5	66
40	Nanometric organisation in blends of gellan/xyloglucan hydrogels. Carbohydrate Polymers, 2014, 114, 48-56.	10.2	8
41	Partial Aggregation of Silver Nanoparticles Induced by Capping and Reducing Agents Competition. Langmuir, 2014, 30, 4879-4886.	3.5	51
42	Supercritical CO2â€"organosilane mixtures for modification of silica: Applications to epoxy prepolymer matrix. Chemical Engineering Journal, 2014, 241, 103-111.	12.7	16
43	Tailored Silicaâ€"Antibiotic Nanoparticles: Overcoming Bacterial Resistance with Low Cytotoxicity. Langmuir, 2014, 30, 7456-7464.	3.5	97
44	The cold storage of green bananas affects the starch degradation during ripening at higher temperature. Carbohydrate Polymers, 2013, 96, 137-147.	10.2	55
45	Selective Synthesis of Silver Nanoparticles onto Potassium Hexaniobate: Structural Organisation with Bactericidal Properties. ChemPhysChem, 2013, 14, 4075-4083.	2.1	6
46	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
47	Silica imprinted materials containing pharmaceuticals as a template: textural aspects. Journal of Sol-Gel Science and Technology, 2012, 64, 324-334.	2.4	21
48	Mechanism of interaction between colloids and bacteria as evidenced by tailored silicaâ€"lysozyme composites. Journal of Materials Chemistry, 2012, 22, 22851.	6.7	30
49	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
50	Echinococcus granulosus Antigen B Structure: Subunit Composition and Oligomeric States. PLoS Neglected Tropical Diseases, 2012, 6, e1551.	3.0	32
51	Supramolecular assembly of biohybrid photoconversion systems. Energy and Environmental Science, 2011, 4, 181-188.	30.8	16
52	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
53	Size-selective silver nanoparticles: future of biomedical devices with enhanced bactericidal properties. Journal of Materials Chemistry, 2011, 21, 12267.	6.7	90
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	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
56	Silicaâ€“Maltose Composites: Obtaining Drug Carrier Systems Through Tailored Ultrastructural Nanoparticles. Journal of Pharmaceutical Sciences, 2011, 100, 2826-2834.	3.3	15
57	Helical Conformation in Crystalline Inclusion Complexes of Vâ€Amylose: A Historical Perspective. Macromolecular Symposia, 2011, 303, 1-9.	0.7	31
58	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
59	On the lamellar width distributions of starch. Carbohydrate Polymers, 2010, 81, 21-28.	10.2	44
60	In vivo degradation of banana starch: Structural characterization of the degradation process. Carbohydrate Polymers, 2010, 81, 291-299.	10.2	35
61	Protein Localization in Silica Nanospheres Derived via Biomimetic Mineralization. Advanced Functional Materials, 2010, 20, 3031-3038.	14.9	36
62	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
63	Molecular and Crystal Structure of 7-Fold V-Amylose Complexed with 2-Propanol. Macromolecules, 2010, 43, 8628-8636.	4.8	59
64	Size control of highly ordered HfO₂nanotube arrays and a possible growth mechanism. Nanotechnology, 2009, 20, 455601.	2.6	21
65	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
66	Evidences of amylose coil-to-helix transition in stored dilute solutions. Polymer, 2008, 49, 4386-4392.	3.8	13
67	Effect of the Alkaline Treatment on the Ultrastructure of C-Type Starch Granules. Biomacromolecules, 2008, 9, 1894-1901.	5.4	55
68	Single Crystals of Vâ€Amylose Inclusion Complexes. Macromolecular Symposia, 2008, 273, 1-8.	0.7	25
69	ESIPT-exhibiting protein probes: a sensitive method for rice proteins detection during starchextraction. Photochemical and Photobiological Sciences, 2007, 6, 99-102.	2.9	34
70	Single Crystals of V-Amylose Complexed with Î±-Naphthol. Biomacromolecules, 2007, 8, 1319-1326.	5.4	61
71	Influence of alkali concentration on the deproteinization and/or gelatinization of rice starch. Carbohydrate Polymers, 2007, 70, 160-165.	10.2	70
72	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

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73	Study of Protein Detection and Ultrastructure of Brazilian Rice Starch during Alkaline Extraction. Starch/Staerke, 2006, 58, 345-352.	2.1	32
74	Structural Evaluation of Phospholipidic Nanovesicles Containing Small Amounts of Chitosan. Journal of Nanoscience and Nanotechnology, 2006, 6, 2425-2431.	0.9	34