

Mateus Borba Cardoso

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

1,985
citations

230014

27
h-index

312153

41
g-index

75
all docs

75
docs citations

75
times ranked

3542
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Colloidal stability and degradability of silica nanoparticles in biological fluids: a review. <i>Journal of Sol-Gel Science and Technology</i> , 2022, 102, 41-62. | 1.1 | 17 |
| 2 | Competitive Protein Adsorption on Charge Regulating Silica-Like Surfaces: The Role of Protonation Equilibrium. <i>Journal of Physics Condensed Matter</i> , 2022, , . | 0.7 | 1 |
| 3 | Macromolecular Viral Entry Inhibitors as Broad-Spectrum First-Line Antivirals with Activity against SARS-CoV-2. <i>Advanced Science</i> , 2022, 9, e2201378. | 5.6 | 8 |
| 4 | Nanoparticle-Protein Interaction: Demystifying the Correlation between Protein Corona and Aggregation Phenomena. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28559-28569. | 4.0 | 13 |
| 5 | Protein corona meets freeze-drying: overcoming the challenges of colloidal stability, toxicity, and opsonin adsorption. <i>Nanoscale</i> , 2021, 13, 753-762. | 2.8 | 9 |
| 6 | Nano-targeting lessons from the SARS-CoV-2. <i>Nano Today</i> , 2021, 36, 101012. | 6.2 | 6 |
| 7 | A nano perspective behind the COVID-19 pandemic. <i>Nanoscale Horizons</i> , 2021, 6, 842-855. | 4.1 | 1 |
| 8 | Precision medicine based on nanoparticles: the paradigm between targeting and colloidal stability. <i>Nanomedicine</i> , 2021, 16, 1451-1456. | 1.7 | 3 |
| 9 | Inside the Protein Corona: From Binding Parameters to Unstained Hard and Soft Coronas Visualization. <i>Nano Letters</i> , 2021, 21, 8250-8257. | 4.5 | 27 |
| 10 | Degradable and colloiddally stable zwitterionic-functionalized silica nanoparticles. <i>Nanomedicine</i> , 2021, 16, 85-96. | 1.7 | 2 |
| 11 | Dose-dependent cell necrosis induced by silica nanoparticles. <i>Toxicology in Vitro</i> , 2020, 63, 104723. | 1.1 | 7 |
| 12 | Effect of particle functionalization and solution properties on the adsorption of bovine serum albumin and lysozyme onto silica nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 186, 110677. | 2.5 | 24 |
| 13 | Tailoring Pseudo-Zwitterionic Bifunctionalized Silica Nanoparticles: From Colloidal Stability to Biological Interactions. <i>Langmuir</i> , 2020, 36, 10756-10763. | 1.6 | 13 |
| 14 | Colloidal Stability and Redispersibility of Mesoporous Silica Nanoparticles in Biological Media. <i>Langmuir</i> , 2020, 36, 11442-11449. | 1.6 | 27 |
| 15 | Selective Targeting of Lymphoma Cells by Monoclonal Antibody Crafted onto Zwitterionic-Functionalized Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 1900446. | 1.2 | 4 |
| 16 | Gram-Negative Bacteria Targeting Mediated by Carbohydrate-Carbohydrate Interactions Induced by Surface-Modified Nanoparticles. <i>Advanced Functional Materials</i> , 2019, 29, 1904216. | 7.8 | 43 |
| 17 | Degradable Hollow Organosilica Nanoparticles for Antibacterial Activity. <i>ACS Omega</i> , 2019, 4, 1479-1486. | 1.6 | 3 |
| 18 | Shielding and stealth effects of zwitterion moieties in double-functionalized silica nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 540-548. | 5.0 | 20 |

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|----|---|-----|-----------|
| 19 | Direct Assessment of Inhibitor and Solvent Effects on the Deposition Mechanism of Asphaltenes in a Brazilian Crude Oil. <i>Energy & Fuels</i> , 2019, 33, 4748-4757. | 2.5 | 12 |
| 20 | Tailoring the Antimicrobial Response of Cationic Nanocellulose-Based Foams through Cryo-Templating. <i>ACS Applied Bio Materials</i> , 2019, 2, 1975-1986. | 2.3 | 41 |
| 21 | Chemically modified silica-based sensors: Effect of the nature of organosilane. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 798-808. | 4.0 | 5 |
| 22 | Monitoring the Surface Chemistry of Functionalized Nanomaterials with a Microfluidic Electronic Tongue. <i>ACS Sensors</i> , 2018, 3, 716-726. | 4.0 | 28 |
| 23 | Freeze-drying of silica nanoparticles: redispersibility toward nanomedicine applications. <i>Nanomedicine</i> , 2018, 13, 179-190. | 1.7 | 30 |
| 24 | Dual Functionalization of Nanoparticles for Generating Corona-Free and Noncytotoxic Silica Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41917-41923. | 4.0 | 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. <i>Nanomedicine</i> , 2018, 13, 1731-1751. | 1.7 | 6 |
| 27 | A comprehensive study of the relation between structural and physical chemical properties of acacia gums. <i>Food Hydrocolloids</i> , 2018, 85, 167-175. | 5.6 | 17 |
| 28 | Defeating Bacterial Resistance and Preventing Mammalian Cells Toxicity Through Rational Design of Antibiotic-Functionalized Nanoparticles. <i>Scientific Reports</i> , 2017, 7, 1326. | 1.6 | 33 |
| 29 | Using Atomic Force Microscopy To Detect Asphaltene Colloidal Particles in Crude Oils. <i>Energy & Fuels</i> , 2017, 31, 3738-3746. | 2.5 | 20 |
| 30 | Biomolecular corona formation: nature and bactericidal impact on surface-modified silica nanoparticles. <i>Journal of Materials Chemistry B</i> , 2017, 5, 8052-8059. | 2.9 | 13 |
| 31 | Shape Tailored Magnetic Nanorings for Intracellular Hyperthermia Cancer Therapy. <i>Scientific Reports</i> , 2017, 7, 14843. | 1.6 | 41 |
| 32 | Are antibiotic-functionalized nanoparticles a promising tool in antimicrobial therapies?. <i>Nanomedicine</i> , 2017, 12, 2587-2590. | 1.7 | 4 |
| 33 | Tailored Silica Nanoparticles Surface to Increase Drug Load and Enhance Bactericidal Response. <i>Journal of the Brazilian Chemical Society</i> , 2017, , . | 0.6 | 7 |
| 34 | Functionalized Silica Nanoparticles As an Alternative Platform for Targeted Drug-Delivery of Water Insoluble Drugs. <i>Langmuir</i> , 2016, 32, 3217-3225. | 1.6 | 94 |
| 35 | Viral Inhibition Mechanism Mediated by Surface-Modified Silica Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16564-16572. | 4.0 | 81 |
| 36 | Stability of gum arabic-gold nanoparticles in physiological simulated pHs and their selective effect on cell lines. <i>RSC Advances</i> , 2016, 6, 9411-9420. | 1.7 | 26 |

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|----|---|------|-----------|
| 37 | Role of Asphaltenes and Additives on the Viscosity and Microscopic Structure of Heavy Crude Oils. <i>Energy & Fuels</i> , 2016, 30, 3644-3651. | 2.5 | 40 |
| 38 | Correlating the Morphological Properties and Structural Organization of Monodisperse Spherical Silica Nanoparticles Grown on a Commercial Silica Surface. <i>ChemPhysChem</i> , 2015, 16, 2981-2994. | 1.0 | 9 |
| 39 | Optical paper-based sensor for ascorbic acid quantification using silver nanoparticles. <i>Talanta</i> , 2015, 141, 188-194. | 2.9 | 66 |
| 40 | Nanometric organisation in blends of gellan/xyloglucan hydrogels. <i>Carbohydrate Polymers</i> , 2014, 114, 48-56. | 5.1 | 8 |
| 41 | Partial Aggregation of Silver Nanoparticles Induced by Capping and Reducing Agents Competition. <i>Langmuir</i> , 2014, 30, 4879-4886. | 1.6 | 51 |
| 42 | Supercritical CO ₂ organosilane mixtures for modification of silica: Applications to epoxy prepolymer matrix. <i>Chemical Engineering Journal</i> , 2014, 241, 103-111. | 6.6 | 16 |
| 43 | Tailored Silica Antibiotic Nanoparticles: Overcoming Bacterial Resistance with Low Cytotoxicity. <i>Langmuir</i> , 2014, 30, 7456-7464. | 1.6 | 97 |
| 44 | The cold storage of green bananas affects the starch degradation during ripening at higher temperature. <i>Carbohydrate Polymers</i> , 2013, 96, 137-147. | 5.1 | 55 |
| 45 | Selective Synthesis of Silver Nanoparticles onto Potassium Hexaniobate: Structural Organisation with Bactericidal Properties. <i>ChemPhysChem</i> , 2013, 14, 4075-4083. | 1.0 | 6 |
| 46 | Sweeter But Deadlier: Decoupling Size, Charge and Capping Effects in Carbohydrate Coated Bactericidal Silver Nanoparticles. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 1817-1826. | 0.5 | 8 |
| 47 | Silica imprinted materials containing pharmaceuticals as a template: textural aspects. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 64, 324-334. | 1.1 | 21 |
| 48 | Mechanism of interaction between colloids and bacteria as evidenced by tailored silica lysozyme composites. <i>Journal of Materials Chemistry</i> , 2012, 22, 22851. | 6.7 | 30 |
| 49 | Characterization of Morphology and Active Agent Mobility within Hybrid Silica Sol-Gel Composites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13972-13979. | 1.5 | 4 |
| 50 | Echinococcus granulosus Antigen B Structure: Subunit Composition and Oligomeric States. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1551. | 1.3 | 32 |
| 51 | Supramolecular assembly of biohybrid photoconversion systems. <i>Energy and Environmental Science</i> , 2011, 4, 181-188. | 15.6 | 16 |
| 52 | Plantain and Banana Starches: Granule Structural Characteristics Explain the Differences in Their Starch Degradation Patterns. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 6672-6681. | 2.4 | 48 |
| 53 | Size-selective silver nanoparticles: future of biomedical devices with enhanced bactericidal properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 12267. | 6.7 | 90 |
| 54 | Sol-gel preparation of aminopropyl-silica-magnesia hybrid materials. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 59, 135-144. | 1.1 | 8 |

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|----|--|-----|-----------|
| 55 | Accessing the hidden lamellar nanostructure of semi-crystalline nascent polymers by small-angle X-ray scattering contrast variation. <i>Journal of Applied Crystallography</i> , 2011, 44, 1123-1126. | 1.9 | 7 |
| 56 | Silica-Maltose Composites: Obtaining Drug Carrier Systems Through Tailored Ultrastructural Nanoparticles. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 2826-2834. | 1.6 | 15 |
| 57 | Helical Conformation in Crystalline Inclusion Complexes of α -Amylose: A Historical Perspective. <i>Macromolecular Symposia</i> , 2011, 303, 1-9. | 0.4 | 31 |
| 58 | Investigation of detergent effects on the solution structure of spinach Light Harvesting Complex II. <i>Journal of Physics: Conference Series</i> , 2010, 251, 012041. | 0.3 | 1 |
| 59 | On the lamellar width distributions of starch. <i>Carbohydrate Polymers</i> , 2010, 81, 21-28. | 5.1 | 44 |
| 60 | In vivo degradation of banana starch: Structural characterization of the degradation process. <i>Carbohydrate Polymers</i> , 2010, 81, 291-299. | 5.1 | 35 |
| 61 | Protein Localization in Silica Nanospheres Derived via Biomimetic Mineralization. <i>Advanced Functional Materials</i> , 2010, 20, 3031-3038. | 7.8 | 36 |
| 62 | The effect of the sol-gel route on the characteristics of acid-base sensors. <i>Sensors and Actuators B: Chemical</i> , 2010, 151, 169-176. | 4.0 | 26 |
| 63 | Molecular and Crystal Structure of 7-Fold V -Amylose Complexed with 2-Propanol. <i>Macromolecules</i> , 2010, 43, 8628-8636. | 2.2 | 59 |
| 64 | Size control of highly ordered HfO_2 nanotube arrays and a possible growth mechanism. <i>Nanotechnology</i> , 2009, 20, 455601. | 1.3 | 21 |
| 65 | Insight into the Structure of Light-Harvesting Complex II and Its Stabilization in Detergent Solution. <i>Journal of Physical Chemistry B</i> , 2009, 113, 16377-16383. | 1.2 | 34 |
| 66 | Evidences of amylose coil-to-helix transition in stored dilute solutions. <i>Polymer</i> , 2008, 49, 4386-4392. | 1.8 | 13 |
| 67 | Effect of the Alkaline Treatment on the Ultrastructure of C-Type Starch Granules. <i>Biomacromolecules</i> , 2008, 9, 1894-1901. | 2.6 | 55 |
| 68 | Single Crystals of α -Amylose Inclusion Complexes. <i>Macromolecular Symposia</i> , 2008, 273, 1-8. | 0.4 | 25 |
| 69 | ESIPT-exhibiting protein probes: a sensitive method for rice proteins detection during starch extraction. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 99-102. | 1.6 | 34 |
| 70 | Single Crystals of V -Amylose Complexed with β -Naphthol. <i>Biomacromolecules</i> , 2007, 8, 1319-1326. | 2.6 | 61 |
| 71 | Influence of alkali concentration on the deproteinization and/or gelatinization of rice starch. <i>Carbohydrate Polymers</i> , 2007, 70, 160-165. | 5.1 | 70 |
| 72 | Self-assembly and structural characterization of <i>Echinococcus granulosus</i> antigen B recombinant subunit oligomers. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 278-285. | 1.1 | 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. | 1.1 | 32 |
| 74 | Structural Evaluation of Phospholipidic Nanovesicles Containing Small Amounts of Chitosan. Journal of Nanoscience and Nanotechnology, 2006, 6, 2425-2431. | 0.9 | 34 |