Carla E Giacomelli

List of Publications by Year
in descending order

60 papers	2,397 citations	236925 25 h-index	206112 48 g-index
61 all docs	61 docs citations	61 times ranked	3133 citing authors

#	Article	IF	Citations
1	A simple strategy to prepare hybrid coating on titanium (Ti6Al4V). Surface and Coatings Technology, 2022, 431, 128017.	4.8	5
2	Antimicrobial modification of polypropylene films by photograft and layered double hydroxides assembly. Reactive and Functional Polymers, 2022, 178, 105349.	4.1	3
3	Original antifouling strategy: Polypropylene films modified with chitosanâ€coated silver nanoparticles. Journal of Applied Polymer Science, 2020, 137, 48448.	2.6	3
4	Synthetic and biological identities of layered double hydroxides nanocarriers functionalized with risedronate. Applied Clay Science, 2020, 199, 105880.	5.2	6
5	A closer look into the physical interactions between lipid membranes and layered double hydroxide nanoparticles. Colloids and Surfaces B: Biointerfaces, 2020, 191, 110998.	5.0	6
6	A simple surface biofunctionalization strategy to inhibit the biofilm formation by Staphylococcus aureus on solid substrates. Colloids and Surfaces B: Biointerfaces, 2019, 183, 110432.	5.0	7
7	Pros and cons of coating layered double hydroxide nanoparticles with polyacrylate. Applied Clay Science, 2019, 172, 11-18.	5.2	14
8	Albumin biofunctionalization to minimize the Staphylococcus aureus adhesion on solid substrates. Colloids and Surfaces B: Biointerfaces, 2018, 167, 156-164.	5.0	12
9	An integrated experimental-theoretical approach to understand the electron transfer mechanism of adsorbed ferrocene-terminated alkanethiol monolayers. Electrochimica Acta, 2018, 265, 303-315.	5.2	5
10	Relevance of proteinâ€“protein interactions on the biological identity of nanoparticles. Colloids and Surfaces B: Biointerfaces, 2018, 166, 330-338.	5.0	16
11	Risedronate functionalized layered double hydroxides nanoparticles with bone targeting capabilities. Applied Clay Science, 2017, 141, 257-264.	5.2	14
12	Stability of silver nanoparticles: agglomeration and oxidation in biological relevant conditions. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	41
13	A systematic approach to the synthesis of LDH nanoparticles by response surface methodology. Applied Clay Science, 2017, 137, 151-159.	5.2	17
14	Layered double hydroxide nanoparticles customization by polyelectrolyte adsorption: mechanism and effect on particle aggregation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 533, 316-322.	4.7	20
15	Effect of the protein corona on the colloidal stability and reactivity of LDH-based nanocarriers. Journal of Materials Chemistry B, 2016, 4, 2008-2016.	5.8	52
16	Unaffected features of BSA stabilized Ag nanoparticles after storage and reconstitution in biological relevant media. Colloids and Surfaces B: Biointerfaces, 2015, 132, 71-77.	5.0	19
17	Structural and physicochemical aspects of drug release from layered double hydroxides and layered hydroxide salts. Applied Clay Science, 2015, 109-110, 119-126.	5.2	45
18	Size-tunable LDHâ€“protein hybrids toward the optimization of drug nanocarriers. Journal of Materials Chemistry B, 2015, 3, 2778-2785.	5.8	15

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19	d -Amino acid oxidase bio-functionalized platforms: Toward an enhanced enzymatic bio-activity. Applied Surface Science, 2015, 356, 679-686.	6.1	3
20	A simple Streptomyces spore-based impedimetric biosensor to detect lindane pesticide. Sensors and Actuators B: Chemical, 2015, 207, 447-454.	7.8	19
21	Biosensor impedimétrico para la detección de lindano. , 2014, , .		0
22	Surface coverage dictates the surface bio-activity of d-amino acid oxidase. Colloids and Surfaces B: Biointerfaces, 2014, 117, 296-302.	5.0	6
23	The optimization of the culture medium to design Streptomyces sp. M7 based impedimetric biosensors. Sensors and Actuators B: Chemical, 2014, 193, 230-237.	7.8	9
24	Ni(ii)-modified solid substrates as a platform to adsorb His-tag proteins. Journal of Materials Chemistry B, 2013, 1, 4921.	5.8	16
25	Effect of structure and bonding on the interfacial properties and the reactivity of layered double hydroxides and Zn hydroxide salts. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 419, 166-173.	4.7	26
26	Driving forces for the adsorption of a His-tag Chagas antigen. A rational approach to design bio-functional surfaces. Colloids and Surfaces B: Biointerfaces, 2013, 112, 294-301.	5.0	6
27	Evaluation of Impedance Spectroscopy as a Transduction Method for Bacterial Biosensors. IEEE Latin America Transactions, 2013, 11, 196-200.	1.6	4
28	Optimizing the Bioaffinity Interaction between His-Tag Proteins and Ni(II) Surface Sites. ACS Symposium Series, 2012, , 37-53.	0.5	2
29	Modeling drug release from a layered double hydroxideâ€"ibuprofen complex. Applied Clay Science, 2012, 62-63, 15-20.	5.2	71
30	Infrared study of trifluoroacetic acid unpurified synthetic peptides in aqueous solution: Trifluoroacetic acid removal and band assignment. Analytical Biochemistry, 2011, 410, 118-123.	2.4	40
31	The effect of interlayer anion on the reactivity of Mgâ€"Al layered double hydroxides: Improving and extending the customization capacity of anionic clays. Journal of Colloid and Interface Science, 2011, 359, 136-141.	9.4	29
32	Asparagine quantification in cellular culture media using copper modified carbon nanotubes composite electrodes. Sensors and Actuators B: Chemical, 2011, 158, 423-426.	7.8	5
33	Determination of a setup correction function to obtain adsorption kinetic data at stagnation point flow conditions. Journal of Colloid and Interface Science, 2010, 346, 208-215.	9.4	25
34	Dissolution kinetics and mechanism of Mgâ€"Al layered double hydroxides: A simple approach to describe drug release in acid media. Journal of Colloid and Interface Science, 2010, 351, 134-139.	9.4	98
35	Phosphate adsorbed on Fe(III) modified montmorillonite: Surface complexation studied by ATR-FTIR spectroscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 353, 238-244.	4.7	45
36	Electrostatic and Hydrophobic Interactions Involved in CNT Biofunctionalization with Short ss-DNA. Journal of Physical Chemistry C, 2010, 114, 4459-4465.	3.1	18

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37	Bio-recognition capability of Streptomyces sp. M7 evaluated in adverse conditions for use as a biological transducer in a Lindane biosensor. , 2010, 2010, 666-9.		0
38	Amperometric flow injection analysis as a new approach for studying disperse systems. Electrochimica Acta, 2009, 55, 475-479.	5.2	3
39	EDTA modified LDHs as Cu2+ scavengers: Removal kinetics and sorbent stability. Journal of Colloid and Interface Science, 2009, 331, 425-431.	9.4	94
40	Interaction of<scp>d</scp>-Amino Acid Oxidase with Carbon Nanotubes: Implications in the Design of Biosensors. Analytical Chemistry, 2009, 81, 1016-1022.	6.5	52
41	Latex of immunodiagnosis for detecting the Chagas disease: II. Chemical coupling of antigen Ag36 onto carboxylated latexes. Journal of Materials Science: Materials in Medicine, 2008, 19, 789-795.	3.6	14
42	Electrophoretic Effects of the Adsorption of Anionic Surfactants to Poly(dimethylsiloxane)-Coated Capillaries. Analytical Chemistry, 2007, 79, 6675-6681.	6.5	33
43	The adsorptionâ€“desorption process of bovine serum albumin on carbon nanotubes. Journal of Colloid and Interface Science, 2007, 307, 349-356.	9.4	98
44	The binding of Ni(II) ions to hexahistidine as a model system of the interaction between nickel and His-tagged proteins. Journal of Inorganic Biochemistry, 2006, 100, 192-200.	3.5	62
45	Conformational Changes of the Amyloidî²-Peptide (1-40) Adsorbed on Solid Surfaces. Macromolecular Bioscience, 2005, 5, 401-407.	4.1	97
46	Influence of Hydrophobic Teflon Particles on the Structure of Amyloid î²-Peptide. Biomacromolecules, 2003, 4, 1719-1726.	5.4	101
47	Reversibility of Structural Rearrangements in Bovine Serum Albumin during Homomolecular Exchange from AgI Particles. Langmuir, 2001, 17, 3734-3740.	3.5	57
48	The Adsorptionâ€“Desorption Cycle. Reversibility of the BSAâ€“Silica System. Journal of Colloid and Interface Science, 2001, 233, 234-240.	9.4	172
49	Adsorption of Immunoglobulin G on Core-Shell Latex Particles Precoated with Chaps. Journal of Colloid and Interface Science, 2000, 231, 283-288.	9.4	13
50	BSA structural changes during homomolecular exchange between the adsorbed and the dissolved states. Journal of Biotechnology, 2000, 79, 259-268.	3.8	317
51	Micellization and Adsorption Characteristics of CHAPS. Langmuir, 2000, 16, 4853-4858.	3.5	28
52	Ellipsometric Study of Bovine Serum Albumin Adsorbed onto Ti/TiO2 Electrodes. Journal of Colloid and Interface Science, 1999, 218, 404-411.	9.4	78
53	ATR-FTIR Study of IgG Adsorbed on Different Silica Surfaces. Journal of Colloid and Interface Science, 1999, 220, 13-23.	9.4	135
54	Conformational changes in proteins at interfaces: From solution to the interface, and back. Macromolecular Symposia, 1999, 145, 125-136.	0.7	89

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55	Adsorption of Bovine Serum Albumin onto TiO2Particles. Journal of Colloid and Interface Science, 1997, 188, 387-395.	9.4	111
56	Dissolution of Chromium Hydroxides Monitored by Turbidimetry. Langmuir, 1996, 12, 6659-6664.	3.5	5
57	Formation of Cr(III) Hydroxides from Chrome Alum Solutions. Journal of Colloid and Interface Science, 1996, 180, 428-435.	9.4	28
58	Some Physicochemical Properties of the Chromium(III) Hydrous Oxide-Aqueous Solution Interface. Journal of Colloid and Interface Science, 1995, 169, 149-160.	9.4	15
59	Aspartic acid adsorption onto TiO2 particles surface. Experimental data and model calculations. Langmuir, 1995, 11, 3483-3490.	3.5	70
60	Driving Forces and Consequences of the Adsorption of Proteins to Carbon Nanotubes. Key Engineering Materials, 0, 441, 75-94.	0.4	3