

Carla E Giacomelli

List of Publications by Year in descending order

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Version: 2024-02-01

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	BSA structural changes during homomolecular exchange between the adsorbed and the dissolved states. <i>Journal of Biotechnology</i> , 2000, 79, 259-268.	3.8	317
2	The Adsorption-Desorption Cycle. Reversibility of the BSA-Silica System. <i>Journal of Colloid and Interface Science</i> , 2001, 233, 234-240.	9.4	172
3	ATR-FTIR Study of IgG Adsorbed on Different Silica Surfaces. <i>Journal of Colloid and Interface Science</i> , 1999, 220, 13-23.	9.4	135
4	Adsorption of Bovine Serum Albumin onto TiO ₂ Particles. <i>Journal of Colloid and Interface Science</i> , 1997, 188, 387-395.	9.4	111
5	Influence of Hydrophobic Teflon Particles on the Structure of Amyloid β -Peptide. <i>Biomacromolecules</i> , 2003, 4, 1719-1726.	5.4	101
6	The adsorption-desorption process of bovine serum albumin on carbon nanotubes. <i>Journal of Colloid and Interface Science</i> , 2007, 307, 349-356.	9.4	98
7	Dissolution kinetics and mechanism of Mg-Al layered double hydroxides: A simple approach to describe drug release in acid media. <i>Journal of Colloid and Interface Science</i> , 2010, 351, 134-139.	9.4	98
8	Conformational Changes of the Amyloid β -Peptide (1-40) Adsorbed on Solid Surfaces. <i>Macromolecular Bioscience</i> , 2005, 5, 401-407.	4.1	97
9	EDTA modified LDHs as Cu ²⁺ scavengers: Removal kinetics and sorbent stability. <i>Journal of Colloid and Interface Science</i> , 2009, 331, 425-431.	9.4	94
10	Conformational changes in proteins at interfaces: From solution to the interface, and back. <i>Macromolecular Symposia</i> , 1999, 145, 125-136.	0.7	89
11	Ellipsometric Study of Bovine Serum Albumin Adsorbed onto Ti/TiO ₂ Electrodes. <i>Journal of Colloid and Interface Science</i> , 1999, 218, 404-411.	9.4	78
12	Modeling drug release from a layered double hydroxide-ibuprofen complex. <i>Applied Clay Science</i> , 2012, 62-63, 15-20.	5.2	71
13	Aspartic acid adsorption onto TiO ₂ particles surface. Experimental data and model calculations. <i>Langmuir</i> , 1995, 11, 3483-3490.	3.5	70
14	The binding of Ni(II) ions to hexahistidine as a model system of the interaction between nickel and His-tagged proteins. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 192-200.	3.5	62
15	Reversibility of Structural Rearrangements in Bovine Serum Albumin during Homomolecular Exchange from AgI Particles. <i>Langmuir</i> , 2001, 17, 3734-3740.	3.5	57
16	Interaction of α -Amino Acid Oxidase with Carbon Nanotubes: Implications in the Design of Biosensors. <i>Analytical Chemistry</i> , 2009, 81, 1016-1022.	6.5	52
17	Effect of the protein corona on the colloidal stability and reactivity of LDH-based nanocarriers. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2008-2016.	5.8	52
18	Phosphate adsorbed on Fe(III) modified montmorillonite: Surface complexation studied by ATR-FTIR spectroscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 353, 238-244.	4.7	45

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19	Structural and physicochemical aspects of drug release from layered double hydroxides and layered hydroxide salts. <i>Applied Clay Science</i> , 2015, 109-110, 119-126.	5.2	45
20	Stability of silver nanoparticles: agglomeration and oxidation in biological relevant conditions. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	41
21	Infrared study of trifluoroacetic acid unpurified synthetic peptides in aqueous solution: Trifluoroacetic acid removal and band assignment. <i>Analytical Biochemistry</i> , 2011, 410, 118-123.	2.4	40
22	Electrophoretic Effects of the Adsorption of Anionic Surfactants to Poly(dimethylsiloxane)-Coated Capillaries. <i>Analytical Chemistry</i> , 2007, 79, 6675-6681.	6.5	33
23	The effect of interlayer anion on the reactivity of Mg-Al layered double hydroxides: Improving and extending the customization capacity of anionic clays. <i>Journal of Colloid and Interface Science</i> , 2011, 359, 136-141.	9.4	29
24	Formation of Cr(III) Hydroxides from Chrome Alum Solutions. <i>Journal of Colloid and Interface Science</i> , 1996, 180, 428-435.	9.4	28
25	Micellization and Adsorption Characteristics of CHAPS. <i>Langmuir</i> , 2000, 16, 4853-4858.	3.5	28
26	Effect of structure and bonding on the interfacial properties and the reactivity of layered double hydroxides and Zn hydroxide salts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 419, 166-173.	4.7	26
27	Determination of a setup correction function to obtain adsorption kinetic data at stagnation point flow conditions. <i>Journal of Colloid and Interface Science</i> , 2010, 346, 208-215.	9.4	25
28	Layered double hydroxide nanoparticles customization by polyelectrolyte adsorption: mechanism and effect on particle aggregation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 533, 316-322.	4.7	20
29	Unaffected features of BSA stabilized Ag nanoparticles after storage and reconstitution in biological relevant media. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 132, 71-77.	5.0	19
30	A simple Streptomyces spore-based impedimetric biosensor to detect lindane pesticide. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 447-454.	7.8	19
31	Electrostatic and Hydrophobic Interactions Involved in CNT Biofunctionalization with Short ss-DNA. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4459-4465.	3.1	18
32	A systematic approach to the synthesis of LDH nanoparticles by response surface methodology. <i>Applied Clay Science</i> , 2017, 137, 151-159.	5.2	17
33	Ni(ii)-modified solid substrates as a platform to adsorb His-tag proteins. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4921.	5.8	16
34	Relevance of protein-protein interactions on the biological identity of nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 166, 330-338.	5.0	16
35	Some Physicochemical Properties of the Chromium(III) Hydrous Oxide-Aqueous Solution Interface. <i>Journal of Colloid and Interface Science</i> , 1995, 169, 149-160.	9.4	15
36	Size-tunable LDH-protein hybrids toward the optimization of drug nanocarriers. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2778-2785.	5.8	15

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37	Latex of immunodiagnosis for detecting the Chagas disease: II. Chemical coupling of antigen Ag36 onto carboxylated latexes. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 789-795.	3.6	14
38	Risedronate functionalized layered double hydroxides nanoparticles with bone targeting capabilities. <i>Applied Clay Science</i> , 2017, 141, 257-264.	5.2	14
39	Pros and cons of coating layered double hydroxide nanoparticles with polyacrylate. <i>Applied Clay Science</i> , 2019, 172, 11-18.	5.2	14
40	Adsorption of Immunoglobulin G on Core-Shell Latex Particles Precoated with Chaps. <i>Journal of Colloid and Interface Science</i> , 2000, 231, 283-288.	9.4	13
41	Albumin biofunctionalization to minimize the <i>Staphylococcus aureus</i> adhesion on solid substrates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 167, 156-164.	5.0	12
42	The optimization of the culture medium to design <i>Streptomyces</i> sp. M7 based impedimetric biosensors. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 230-237.	7.8	9
43	A simple surface biofunctionalization strategy to inhibit the biofilm formation by <i>Staphylococcus aureus</i> on solid substrates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 183, 110432.	5.0	7
44	Driving forces for the adsorption of a His-tag Chagas antigen. A rational approach to design bio-functional surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 112, 294-301.	5.0	6
45	Surface coverage dictates the surface bio-activity of d-amino acid oxidase. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 117, 296-302.	5.0	6
46	Synthetic and biological identities of layered double hydroxides nanocarriers functionalized with risedronate. <i>Applied Clay Science</i> , 2020, 199, 105880.	5.2	6
47	A closer look into the physical interactions between lipid membranes and layered double hydroxide nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 191, 110998.	5.0	6
48	Dissolution of Chromium Hydroxides Monitored by Turbidimetry. <i>Langmuir</i> , 1996, 12, 6659-6664.	3.5	5
49	Asparagine quantification in cellular culture media using copper modified carbon nanotubes composite electrodes. <i>Sensors and Actuators B: Chemical</i> , 2011, 158, 423-426.	7.8	5
50	An integrated experimental-theoretical approach to understand the electron transfer mechanism of adsorbed ferrocene-terminated alkanethiol monolayers. <i>Electrochimica Acta</i> , 2018, 265, 303-315.	5.2	5
51	A simple strategy to prepare hybrid coating on titanium (Ti6Al4V). <i>Surface and Coatings Technology</i> , 2022, 431, 128017.	4.8	5
52	Evaluation of Impedance Spectroscopy as a Transduction Method for Bacterial Biosensors. <i>IEEE Latin America Transactions</i> , 2013, 11, 196-200.	1.6	4
53	Amperometric flow injection analysis as a new approach for studying disperse systems. <i>Electrochimica Acta</i> , 2009, 55, 475-479.	5.2	3
54	Driving Forces and Consequences of the Adsorption of Proteins to Carbon Nanotubes. <i>Key Engineering Materials</i> , 0, 441, 75-94.	0.4	3

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55	d -Amino acid oxidase bio-functionalized platforms: Toward an enhanced enzymatic bio-activity. Applied Surface Science, 2015, 356, 679-686.	6.1	3
56	Original antifouling strategy: Polypropylene films modified with chitosan-coated silver nanoparticles. Journal of Applied Polymer Science, 2020, 137, 48448.	2.6	3
57	Antimicrobial modification of polypropylene films by photograft and layered double hydroxides assembly. Reactive and Functional Polymers, 2022, 178, 105349.	4.1	3
58	Optimizing the Bioaffinity Interaction between His-Tag Proteins and Ni(II) Surface Sites. ACS Symposium Series, 2012, , 37-53.	0.5	2
59	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
60	Biosensor impedimetrico para la detección de lindano. , 2014, , .		0