

Andrea Salis

List of Publications by Year in descending order

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86
papers

4,224
citations

81900

39
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all docs

90
docs citations

90
times ranked

4932
citing authors

#	ARTICLE	IF	CITATIONS
1	Models and mechanisms of Hofmeister effects in electrolyte solutions, and colloid and protein systems revisited. <i>Chemical Society Reviews</i> , 2014, 43, 7358-7377.	38.1	455
2	Biodiesel production from triolein and short chain alcohols through biocatalysis. <i>Journal of Biotechnology</i> , 2005, 119, 291-299.	3.8	229
3	Measurements and Theoretical Interpretation of Points of Zero Charge/Potential of BSA Protein. <i>Langmuir</i> , 2011, 27, 11597-11604.	3.5	206
4	Physical and Chemical Adsorption of Mucor javanicus Lipase on SBA-15 Mesoporous Silica. Synthesis, Structural Characterization, and Activity Performance. <i>Langmuir</i> , 2005, 21, 5511-5516.	3.5	143
5	Comparison among immobilised lipases on macroporous polypropylene toward biodiesel synthesis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 54, 19-26.	1.8	119
6	Possible Origin of the Inverse and Direct Hofmeister Series for Lysozyme at Low and High Salt Concentrations. <i>Langmuir</i> , 2011, 27, 9504-9511.	3.5	119
7	Hofmeister Effects in Enzymatic Activity: Weak and Strong Electrolyte Influences on the Activity of <i>Candida rugosa</i> Lipase. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1149-1156.	2.6	117
8	Specific Anion Effects on Glass Electrode pH Measurements of Buffer Solutions: Bulk and Surface Phenomena. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2949-2956.	2.6	113
9	Why Direct or Reversed Hofmeister Series? Interplay of Hydration, Non-electrostatic Potentials, and Ion Size. <i>Langmuir</i> , 2010, 26, 3323-3328.	3.5	111
10	Adsorption and release of ampicillin antibiotic from ordered mesoporous silica. <i>Journal of Colloid and Interface Science</i> , 2017, 497, 217-225.	9.4	111
11	Hofmeister Series: The Hydrolytic Activity of <i>Aspergillus niger</i> Lipase Depends on Specific Anion Effects. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5406-5408.	2.6	96
12	Laccase from <i>Pleurotus sajor-caju</i> on functionalised SBA-15 mesoporous silica: Immobilisation and use for the oxidation of phenolic compounds. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 58, 175-180.	1.8	91
13	Ion Specific Surface Charge Density of SBA-15 Mesoporous Silica. <i>Langmuir</i> , 2010, 26, 2484-2490.	3.5	84
14	Role of the support surface on the loading and the activity of <i>Pseudomonas fluorescens</i> lipase used for biodiesel synthesis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 57, 262-269.	1.8	81
15	Hofmeister Challenges: Ion Binding and Charge of the BSA Protein as Explicit Examples. <i>Langmuir</i> , 2012, 28, 16355-16363.	3.5	81
16	The molecular motion of bovine serum albumin under physiological conditions is ion specific. <i>Chemical Communications</i> , 2015, 51, 6663-6666.	4.1	80
17	Interactions between bovine serum albumin and mesoporous silica nanoparticles functionalized with biopolymers. <i>Chemical Engineering Journal</i> , 2018, 340, 42-50.	12.7	71
18	Lysozyme Adsorption and Release from Ordered Mesoporous Materials. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19928-19934.	3.1	70

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19	Hofmeister series reversal for lysozyme by change in pH and salt concentration: insights from electrophoretic mobility measurements. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4343.	2.8	70
20	Not only pH. Specific buffer effects in biological systems. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 23, 1-9.	7.4	68
21	Adsorption of Malachite Green and Alizarin Red S Dyes Using Fe-BTC Metal Organic Framework as Adsorbent. <i>International Journal of Molecular Sciences</i> , 2021, 22, 788.	4.1	66
22	The atypical lipase B from <i>Candida antarctica</i> is better adapted for organic media than the typical lipase from <i>Thermomyces lanuginosa</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003, 1646, 145-151.	2.3	64
23	Characterisation of Accurel MP1004 polypropylene powder and its use as a support for lipase immobilisation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2003, 24-25, 75-82.	1.8	63
24	Specific Anion Effects on Enzymatic Activity in Nonaqueous Media. <i>Journal of Physical Chemistry B</i> , 2008, 112, 12066-12072.	2.6	63
25	Specific Cation Effects on Hemoglobin Aggregation below and at Physiological Salt Concentration. <i>Langmuir</i> , 2013, 29, 15350-15358.	3.5	62
26	A bienzymatic biocatalyst constituted by glucose oxidase and Horseradish peroxidase immobilized on ordered mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2017, 241, 145-154.	4.4	60
27	Ionic strength affects lysozyme adsorption and release from SBA-15 mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2013, 170, 164-172.	4.4	56
28	Physical and Chemical Lipase Adsorption on SBA-15: Effect of Different Interactions on Enzyme Loading and Catalytic Performance. <i>ChemCatChem</i> , 2010, 2, 322-329.	3.7	54
29	Specific Ion Effects on Adsorption of Lysozyme on Functionalized SBA-15 Mesoporous Silica. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7996-8001.	2.6	54
30	Mesoporous Silica Nanoparticles Functionalized with Hyaluronic Acid and Chitosan Biopolymers. Effect of Functionalization on Cell Internalization. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 741-751.	5.2	51
31	Interplay of ion specificity, pH and buffers: insights from electrophoretic mobility and pH measurements of lysozyme solutions. <i>RSC Advances</i> , 2013, 3, 5882.	3.6	49
32	Recent Developments in the Delignification and Exploitation of Grass Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2412-2432.	6.7	48
33	Mesoporous silica nanoparticles functionalized with hyaluronic acid. Effect of the biopolymer chain length on cell internalization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 168, 50-59.	5.0	47
34	Lipase Encapsulation onto ZIF-8: A Comparison between Biocatalysts Obtained at Low and High Zinc/2-Methylimidazole Molar Ratio in Aqueous Medium. <i>ChemCatChem</i> , 2018, 10, 1578-1585.	3.7	44
35	Wax esters synthesis from heavy fraction of sheep milk fat and cetyl alcohol by immobilised lipases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2003, 21, 167-174.	1.8	43
36	Sulfonic acid-functionalized mesoporous silicas: Microcalorimetric characterization and catalytic performance toward biodiesel synthesis. <i>Microporous and Mesoporous Materials</i> , 2013, 179, 54-62.	4.4	40

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37	Hofmeister effects at low salt concentration due to surface charge transfer. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 23, 41-49.	7.4	40
38	Lipase and Laccase Encapsulated on Zeolite Imidazolate Framework: Enzyme Activity and Stability from Voltammetric Measurements. <i>ChemCatChem</i> , 2018, 10, 5425-5433.	3.7	40
39	Adsorption of Cu ²⁺ and Zn ²⁺ on SBA-15 mesoporous silica functionalized with triethylenetetramine chelating agent. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103205.	6.7	39
40	Specific Buffer Effects on the Intermolecular Interactions among Protein Molecules at Physiological pH. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6805-6811.	4.6	37
41	Porous silicon-based potentiometric biosensor for triglycerides. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 1434-1438.	1.8	36
42	3D vision of human lysozyme adsorbed onto a SBA-15 nanostructured matrix. <i>Chemical Communications</i> , 2011, 47, 7338.	4.1	36
43	Adsorption of Lysozyme on Hyaluronic Acid Functionalized SBA-15 Mesoporous Silica: A Possible Bioadhesive Depot System. <i>Langmuir</i> , 2014, 30, 12996-13004.	3.5	33
44	Cation effects on haemoglobin aggregation: balance of chemisorption against physisorption of ions. <i>Interface Focus</i> , 2017, 7, 20160137.	3.0	32
45	The impact of the competitive adsorption of ions at surface sites on surface free energies and surface forces. <i>Journal of Chemical Physics</i> , 2015, 142, 134707.	3.0	31
46	Effect of electrolytes on proteins physisorption on ordered mesoporous silica materials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 137, 77-90.	5.0	31
47	From self-assembly fundamental knowledge to nanomedicine developments. <i>Advances in Colloid and Interface Science</i> , 2014, 205, 48-67.	14.7	29
48	Specific ion effects on the electrochemical properties of cytochrome c. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2875.	2.8	26
49	Enzyme immobilization on metal organic frameworks: Laccase from <i>Aspergillus</i> sp. is better adapted to ZIF-zni rather than Fe-BTC. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 208, 112147.	5.0	23
50	Are specific buffer effects the new frontier of Hofmeister phenomena? Insights from lysozyme adsorption on ordered mesoporous silica. <i>RSC Advances</i> , 2016, 6, 94617-94621.	3.6	22
51	Glassy Carbon Electrodes Modified with Ordered Mesoporous Silica for the Electrochemical Detection of Cadmium Ions. <i>ACS Omega</i> , 2019, 4, 1410-1415.	3.5	22
52	Hofmeister Phenomena in Bioelectrochemistry: The Supporting Electrolyte Affects the Response of Glucose Electrodes. <i>ChemElectroChem</i> , 2015, 2, 659-663.	3.4	20
53	Silica-modified Electrodes for Electrochemical Detection of Malachite Green. <i>Electroanalysis</i> , 2017, 29, 2602-2609.	2.9	20
54	An amplified electrochemical sensor employing a polymeric film and graphene quantum dots/multiwall carbon nanotubes in a deep eutectic solvent for sensitive analysis of paracetamol and 4-aminophenol. <i>New Journal of Chemistry</i> , 2020, 44, 15742-15751.	2.8	19

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55	Structure-activity relationships of various amino-hydroxy-benzenesulfonic acids and sulfonamides as tyrosinase substrates. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2011, 1810, 799-807.	2.4	18
56	Electrolyte effects on enzyme electrochemistry. <i>Current Opinion in Electrochemistry</i> , 2017, 5, 158-164.	4.8	17
57	Protein-ion Interactions: Simulations of Bovine Serum Albumin in Physiological Solutions of NaCl, KCl and LiCl. <i>Israel Journal of Chemistry</i> , 2017, 57, 403-412.	2.3	16
58	Enzyme encapsulation in nanostructured self-assembled structures: Toward biofunctional supramolecular assemblies. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 44, 130-142.	7.4	16
59	Use of Lipases for the Production of Biodiesel. , 2007, , 317-339.		15
60	Specific ion effects on the enzymatic activity of alcohol dehydrogenase from <i>Saccharomyces cerevisiae</i> . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6749-6754.	2.8	14
61	Effect of oxidation level of n+-type mesoporous silicon surface on the adsorption and the catalytic activity of <i>Candida rugosa</i> lipase. <i>Journal of Colloid and Interface Science</i> , 2010, 345, 448-453.	9.4	13
62	A thermodynamic correction to the theory of competitive chemisorption of ions at surface sites with nonelectrostatic physisorption. <i>Journal of Chemical Physics</i> , 2019, 151, 024701.	3.0	13
63	Effective SARS-CoV-2 antiviral activity of hyperbranched polylysine nanoparticles. <i>Nanoscale</i> , 2021, 13, 16465-16476.	5.6	13
64	A drug delivery system based on poly-L-lysine grafted mesoporous silica nanoparticles for quercetin release. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 648, 129343.	4.7	13
65	Commercial lipase immobilization on Accurel MP 1004 porous polypropylene. <i>Biocatalysis and Biotransformation</i> , 2005, 23, 381-386.	2.0	12
66	Silver Enhancement for Transmission Electron Microscopy Imaging of Antibody Fragment-Gold Nanoparticles Conjugates Immobilized on Ordered Mesoporous Silica. <i>Langmuir</i> , 2015, 31, 9458-9463.	3.5	12
67	Electrosynthesised CdS@ZnS quantum dots decorated multi walled carbon nanotubes for analysis of propranolol in biological fluids and pharmaceutical samples. <i>Microchemical Journal</i> , 2021, 168, 106453.	4.5	12
68	Assembly of Multicomponent Nano-Bioconjugates Composed of Mesoporous Silica Nanoparticles, Proteins, and Gold Nanoparticles. <i>ACS Omega</i> , 2019, 4, 11044-11052.	3.5	11
69	Novel mannitol based non-ionic surfactants from biocatalysis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004, 27, 139-146.	1.8	10
70	Specific Anion Effects on Lipase Adsorption and Enzymatic Synthesis of Biodiesel in Nonaqueous Media. <i>Langmuir</i> , 2020, 36, 9465-9471.	3.5	10
71	Electrochemical Detection of Lead Ions with Ordered Mesoporous Silica-Modified Glassy Carbon Electrodes. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	9
72	Adsorption and Release of Sulfamethizole from Mesoporous Silica Nanoparticles Functionalised with Triethylenetetramine. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7665.	4.1	9

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73	Specific Ion Effects on the Mediated Oxidation of NADH. ChemElectroChem, 2017, 4, 3075-3080.	3.4	8
74	Highly Photostable Carbon Dots from Citric Acid for Bioimaging. Materials, 2022, 15, 2395.	2.9	8
75	Aurivillius Oxides Nanosheets-Based Photocatalysts for Efficient Oxidation of Malachite Green Dye. International Journal of Molecular Sciences, 2022, 23, 5422.	4.1	8
76	Gold Nanoparticles: A Powerful Tool to Visualize Proteins on Ordered Mesoporous Silica and for the Realization of Theranostic Nanobioconjugates. International Journal of Molecular Sciences, 2018, 19, 1991.	4.1	7
77	Buffer-specific effects arise from ionic dispersion forces. Physical Chemistry Chemical Physics, 2022, 24, 6544-6551.	2.8	7
78	Improving Metal Adsorption on Triethylenetetramine (TETA) Functionalized SBA-15 Mesoporous Silica Using Potentiometry, EPR and ssNMR. Advanced Materials Interfaces, 2020, 7, 2000544.	3.7	6
79	Note: Fractionation of Sheep Milk Fat Via Supercritical Carbon Dioxide. Food Science and Technology International, 2004, 10, 421-425.	2.2	5
80	Novel mannitol based non-ionic surfactants from biocatalysis. Journal of Molecular Catalysis B: Enzymatic, 2004, 27, 233-236.	1.8	5
81	Reply to "Comments on "Hofmeister Series: The Hydrolytic Activity of Aspergillus niger Lipase Depends on Specific Anion Effects". Journal of Physical Chemistry B, 2005, 109, 14752-14754.	2.6	5
82	Porous Silicon-based Electrochemical Biosensors. , 0, , .		5
83	Comment on "Hofmeister Series: The Hydrolytic Activity of Aspergillus niger Lipase Depends on Specific Anion Effects". Journal of Physical Chemistry B, 2005, 109, 14750-14751.	2.6	2
84	Hofmeister Effects in Enzymatic Activity, Colloid Stability and pH Measurements: Ion-Dependent Specificity of Intermolecular Forces. , 2009, , 159-194.		2
85	Specific electrolyte effects on hemoglobin in denaturing medium investigated through electro spray ionization mass spectrometry. Journal of Inorganic Biochemistry, 2022, 234, 111872.	3.5	2
86	Excess enthalpies of [CnMIM][NTf2] (n = 2 or 10) + ethanol or N-methyl-2-pyrrolidone binary mixtures at 298.15 K and 0.1 MPa. Journal of Thermal Analysis and Calorimetry, 0, , 1.	3.6	0