

MarÃ-a Valeria GrazÃ° Bonavia

List of Publications by Year in descending order

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67
papers

4,595
citations

87843

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98753

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docs citations

67
times ranked

6861
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective Magnetic Nanoheating: Combining Iron Oxide Nanoparticles for Multi-Hot-Spot Induction and Sequential Regulation. <i>Nano Letters</i> , 2021, 21, 7213-7220.	4.5	34
2	Stabilization of b-Glucuronidase by Immobilization in Magnetic-Silica Hybrid Supports. <i>Catalysts</i> , 2020, 10, 669.	1.6	11
3	Design of stable magnetic hybrid nanoparticles of Si-entrapped HRP. <i>PLoS ONE</i> , 2019, 14, e0214004.	1.1	19
4	Enzyme activation by alternating magnetic field: Importance of the bioconjugation methodology. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 615-628.	5.0	47
5	Triggering antitumoural drug release and gene expression by magnetic hyperthermia. <i>Advanced Drug Delivery Reviews</i> , 2019, 138, 326-343.	6.6	92
6	Dual Role of Magnetic Nanoparticles as Intracellular Hotspots and Extracellular Matrix Disruptors Triggered by Magnetic Hyperthermia in 3D Cell Culture Models. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44301-44313.	4.0	40
7	Gold nanocluster fluorescence as an indicator for optical enzymatic nanobiosensors: choline and acetylcholine determination. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 261-270.	4.0	23
8	Extracellular Biosynthesis of Silver Nanoparticles Using Fungi and Their Antibacterial Activity. <i>Nano Biomedicine and Engineering</i> , 2018, 10, .	0.3	20
9	Glucose oxidase immobilized on magnetic nanoparticles: Nanobiosensors for fluorescent glucose monitoring. <i>Mikrochimica Acta</i> , 2017, 184, 1325-1333.	2.5	9
10	A Lectin Purified from Blood Red Bracket Mushroom, <i>Pycnoporus sanguineus</i> (Agaricomycetidae), Mycelium Displayed Affinity Toward Bovine Transferrin. <i>International Journal of Medicinal Mushrooms</i> , 2016, 18, 67-74.	0.9	3
11	Surface engineered magnetic nanoparticles for specific immunotargeting of cadherin expressing cells. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 054003.	1.3	5
12	Rescuing compound bioactivity in a secondary cell-based screening by using γ -cyclodextrin as a molecular carrier. <i>International Journal of Nanomedicine</i> , 2015, 10, 2249.	3.3	4
13	Applying the Retro-Enantio Approach To Obtain a Peptide Capable of Overcoming the Blood-Brain Barrier. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3967-3972.	7.2	96
14	Protein-Templated Biomimetic Silica Nanoparticles. <i>Langmuir</i> , 2015, 31, 3687-3695.	1.6	45
15	A promising road with challenges: where are gold nanoparticles in translational research?. <i>Nanomedicine</i> , 2014, 9, 2353-2370.	1.7	58
16	Nanoparticle-Mediated Monitoring of Carbohydrate-Lectin Interactions Using Transient Magnetic Birefringence. <i>Analytical Chemistry</i> , 2014, 86, 12159-12165.	3.2	12
17	Revisiting 30 years of biofunctionalization and surface chemistry of inorganic nanoparticles for nanomedicine. <i>Frontiers in Chemistry</i> , 2014, 2, 48.	1.8	319
18	Strategies for the Biofunctionalization of Gold and Iron Oxide Nanoparticles. <i>Langmuir</i> , 2014, 30, 15057-15071.	1.6	70

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19	Tips for the Functionalization of Nanoparticles with Antibodies. <i>Methods in Molecular Biology</i> , 2013, 1051, 149-163.	0.4	20
20	Design, Preparation, and Evaluation of a Fixed-Orientation Antibody/Gold-Nanoparticle Conjugate as an Immunosensing Label. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10753-10759.	4.0	89
21	DNA as a Molecular Local Thermal Probe for the Analysis of Magnetic Hyperthermia. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11526-11529.	7.2	89
22	Synthesis and Properties of Multifunctional Tetragonal Eu:GdPO ₄ Nanocubes for Optical and Magnetic Resonance Imaging Applications. <i>Inorganic Chemistry</i> , 2013, 52, 647-654.	1.9	98
23	Cell adhesion on surface patterns generated by the photocrosslinking of hyperbranched polyesters with a trisdiazonium salt. <i>Reactive and Functional Polymers</i> , 2013, 73, 499-507.	2.0	5
24	Improving immunosensor performance through oriented immobilization of antibodies on carbon nanotube composite surfaces. <i>Biosensors and Bioelectronics</i> , 2013, 43, 274-280.	5.3	48
25	Tackling reproducibility in microcantilever biosensors: a statistical approach for sensitive and specific end-point detection of immunoreactions. <i>Analyst</i> , 2013, 138, 863-872.	1.7	25
26	Plasmonic-driven thermal sensing: ultralow detection of cancer markers. <i>Chemical Communications</i> , 2013, 49, 3676.	2.2	44
27	Spatially-Resolved EELS Analysis of Antibody Distribution on Biofunctionalized Magnetic Nanoparticles. <i>ACS Nano</i> , 2013, 7, 4006-4013.	7.3	32
28	Controlled antibody/(bio-) conjugation of inorganic nanoparticles for targeted delivery. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 677-688.	6.6	169
29	Immobilization of Enzymes on Monofunctional and Heterofunctional Epoxy-Activated Supports. <i>Methods in Molecular Biology</i> , 2013, 1051, 43-57.	0.4	12
30	Monosaccharides <i>versus</i> PEG-Functionalized NPs: Influence in the Cellular Uptake. <i>ACS Nano</i> , 2012, 6, 1565-1577.	7.3	131
31	Photocrosslinking, micropatterning and cell adhesion studies of sodium hyaluronate with a trisdiazonium salt. <i>Carbohydrate Polymers</i> , 2012, 90, 419-430.	5.1	3
32	Tailoring the Synthesis and Heating Ability of Gold Nanoprisms for Bioapplications. <i>Langmuir</i> , 2012, 28, 8965-8970.	1.6	167
33	Nanocarriers as Nanomedicines. <i>Frontiers of Nanoscience</i> , 2012, 4, 337-440.	0.3	14
34	Tailor-made design of penicillin G acylase surface enables its site-directed immobilization and stabilization onto commercial mono-functional epoxy supports. <i>Process Biochemistry</i> , 2012, 47, 2538-2541.	1.8	26
35	Transient magnetic birefringence for determining magnetic nanoparticle diameters in dense, highly light scattering media. <i>Nanotechnology</i> , 2012, 23, 155501.	1.3	9
36	Specific peptides as alternative to antibody ligands for biomagnetic separation of <i>Clostridium tyrobutyricum</i> spores. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 3219-3226.	1.9	8

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37	Glyoxyl-Disulfide Agarose: A Tailor-Made Support for Site-Directed Rigidification of Proteins. <i>Biomacromolecules</i> , 2011, 12, 1800-1809.	2.6	41
38	Taking Advantage of Unspecific Interactions to Produce Highly Active Magnetic Nanoparticle-Antibody Conjugates. <i>ACS Nano</i> , 2011, 5, 4521-4528.	7.3	133
39	In Situ Photopolymerization of Biomaterials by Thiol-Ene Click Chemistry. <i>Macromolecular Bioscience</i> , 2011, 11, 1505-1514.	2.1	13
40	Engineering biofunctional magnetic nanoparticles for biotechnological applications. <i>Nanoscale</i> , 2010, 2, 1746.	2.8	96
41	Promotion of multipoint covalent immobilization through different regions of genetically modified penicillin G acylase from <i>E. coli</i> . <i>Process Biochemistry</i> , 2010, 45, 390-398.	1.8	55
42	Heterofunctional supports for the one-step purification, immobilization and stabilization of large multimeric enzymes: Amino-glyoxyl versus amino-epoxy supports. <i>Process Biochemistry</i> , 2010, 45, 1692-1698.	1.8	56
43	Multifunctional Nanocarriers for diagnostics, drug delivery and targeted treatment across blood-brain barrier: perspectives on tracking and neuroimaging. <i>Particle and Fibre Toxicology</i> , 2010, 7, 3.	2.8	386
44	Sterilization Matters: Consequences of Different Sterilization Techniques on Gold Nanoparticles. <i>Small</i> , 2010, 6, 89-95.	5.2	65
45	Creating Biomimetic Surfaces through Covalent and Oriented Binding of Proteins. <i>Langmuir</i> , 2010, 26, 14707-14715.	1.6	37
46	Immobilization of antibodies through the surface regions having the highest density in lysine groups on finally inert support surfaces. <i>Process Biochemistry</i> , 2009, 44, 365-368.	1.8	16
47	Synthesis and stealthing study of bare and PEGylated silica micro- and nanoparticles as potential drug-delivery vectors. <i>Chemical Engineering Journal</i> , 2008, 137, 45-53.	6.6	76
48	Covalent Immobilization of Antibodies on Finally Inert Support Surfaces through their Surface Regions Having the Highest Densities in Carboxyl Groups. <i>Biomacromolecules</i> , 2008, 9, 2230-2236.	2.6	50
49	Solid-Phase Chemical Amination of a Lipase from <i>Bacillus thermocatenulatus</i> To Improve Its Stabilization via Covalent Immobilization on Highly Activated Glyoxyl-Agarose. <i>Biomacromolecules</i> , 2008, 9, 2553-2561.	2.6	98
50	Oriented Covalent Immobilization of Antibodies on Physically Inert and Hydrophilic Support Surfaces through Their Glycosidic Chains. <i>Biomacromolecules</i> , 2008, 9, 719-723.	2.6	24
51	Genetic Modification of the Penicillin G Acylase Surface To Improve Its Reversible Immobilization on Ionic Exchangers. <i>Applied and Environmental Microbiology</i> , 2007, 73, 312-319.	1.4	41
52	Mixed Ion Exchange Supports as Useful Ion Exchangers for Protein Purification: Purification of Penicillin G Acylase from <i>Escherichia coli</i> . <i>Biomacromolecules</i> , 2007, 8, 703-707.	2.6	40
53	Improved Stabilization of Genetically Modified Penicillin G Acylase in the Presence of Organic Cosolvents by Co-Immobilization of the Enzyme with Polyethyleneimine. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 459-464.	2.1	38
54	Asymmetric hydrolysis of dimethyl phenylmalonate by immobilized penicillin G acylase from <i>E. coli</i> . <i>Enzyme and Microbial Technology</i> , 2007, 40, 997-1000.	1.6	9

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55	Immobilization of enzymes on heterofunctional epoxy supports. <i>Nature Protocols</i> , 2007, 2, 1022-1033.	5.5	269
56	Chemical Modification of Protein Surfaces To Improve Their Reversible Enzyme Immobilization on Ionic Exchangers. <i>Biomacromolecules</i> , 2006, 7, 3052-3058.	2.6	46
57	Glyoxyl agarose: A fully inert and hydrophilic support for immobilization and high stabilization of proteins. <i>Enzyme and Microbial Technology</i> , 2006, 39, 274-280.	1.6	347
58	Use of polyvalent cations to improve the adsorption strength between adsorbed enzymes and supports coated with dextran sulfate. <i>Enzyme and Microbial Technology</i> , 2006, 39, 332-336.	1.6	6
59	Glyoxyl agarose as a new chromatographic matrix. <i>Enzyme and Microbial Technology</i> , 2006, 38, 960-966.	1.6	56
60	Some special features of glyoxyl supports to immobilize proteins. <i>Enzyme and Microbial Technology</i> , 2005, 37, 456-462.	1.6	257
61	Stabilization of enzymes by multipoint immobilization of thiolated proteins on new epoxy-thiol supports. <i>Biotechnology and Bioengineering</i> , 2005, 90, 597-605.	1.7	90
62	Improved stabilization of chemically aminated enzymes via multipoint covalent attachment on glyoxyl supports. <i>Journal of Biotechnology</i> , 2005, 116, 1-10.	1.9	114
63	Stabilization of Penicillin G Acylase from <i>Escherichia coli</i> : Site-Directed Mutagenesis of the Protein Surface To Increase Multipoint Covalent Attachment. <i>Applied and Environmental Microbiology</i> , 2004, 70, 1249-1251.	1.4	111
64	Solid-Phase Reducing Agents as Alternative for Reducing Disulfide Bonds in Proteins. <i>Applied Biochemistry and Biotechnology</i> , 2003, 110, 23-32.	1.4	12
65	Novel Bifunctional Epoxy/Thiol-Reactive Support to Immobilize Thiol Containing Proteins by the Epoxy Chemistry. <i>Biomacromolecules</i> , 2003, 4, 1495-1501.	2.6	84
66	Introduction of thiol-reactive structures on to soluble and insoluble proteins. <i>Biotechnology and Applied Biochemistry</i> , 2000, 31, 231.	1.4	1
67	beta-Galactosidase from <i>Kluyveromyces lactis</i> immobilized on to thiolsulfinate/thiolsulfonate supports for lactose hydrolysis in milk and dairy by-products.. <i>Biotechnology Letters</i> , 1998, 12, 143-148.	0.5	32