Margarita Darder

List of Publications by Year
in descending order

109 papers	6,731 citations	87843 38 h-index	64755 79 g-index
117 all docs	117 docs citations	117 times ranked	7202 citing authors

#	Article	IF	Citations
1	An overview of clay-polymer nanocomposites containing bioactive compounds for food packaging applications. Applied Clay Science, 2022, 216, 106335.	2.6	50
2	Tailoring the properties of nanocellulose-sepiolite hybrid nanopapers by varying the nanocellulose type and clay content. Cellulose, 2022, 29, 5265-5287.	2.4	8
3	Composite Nanoarchitectonics: Alginate Beads Encapsulating Sepiolite/Magnetite/Prussian Blue for Removal of Cesium Ions from Water. Bulletin of the Chemical Society of Japan, 2021, 94, 122-132.	2.0	44
4	Sepiolite-Hydrogels: Synthesis by Ultrasound Irradiation and Their Use for the Preparation of Functional Clay-Based Nanoarchitectured Materials. Frontiers in Chemistry, 2021, 9, 733105.	1.8	12
5	Hydrophobic composite foams based on nanocellulose-sepiolite for oil sorption applications. Journal of Hazardous Materials, 2021, 417, 126068.	6.5	31
6	Gentamicin-Montmorillonite Intercalation Compounds as an Active Component of Hydroxypropylmethylcellulose Bionanocomposite Films with Antimicrobial Properties. Clays and Clay Minerals, 2021, 69, 576-588.	0.6	5
7	Cellulose-based biomaterials integrated with copper-cystine hybrid structures as catalysts for nitric oxide generation. Materials Science and Engineering C, 2020, 108, 110369.	3.8	16
8	Alginate bionanocomposite films containing sepiolite modified with polyphenols from myrtle berries extract. International Journal of Biological Macromolecules, 2020, 165, 2079-2088.	3.6	33
9	Nanotechnology Responses to COVIDâ€19. Advanced Healthcare Materials, 2020, 9, e2000979.	3.9	128
10	Cellulose Nanofibers from a Dutch Elm Disease-Resistant Ulmus minor Clone. Polymers, 2020, 12, 2450.	2.0	17
11	Clay-based hybrids for controlled release of 7-azaindole derivatives as neuroprotective drugs in the treatment of Alzheimer's disease. Applied Clay Science, 2020, 189, 105541.	2.6	18
12	Chitosan and pectin coreâ€“shell beads encapsulating metforminâ€“clay intercalation compounds for controlled delivery. New Journal of Chemistry, 2020, 44, 10102-10110.	1.4	26
13	Ultrasound-assisted preparation of nanocomposites based on fibrous clay minerals and nanocellulose from microcrystalline cellulose. Applied Clay Science, 2020, 189, 105538.	2.6	18
14	Zein-layered hydroxide biohybrids: strategies of synthesis and characterization. Materials, 2020, 13, 825.	1.3	7
15	Theoretical and experimental investigation on the intercalation of metformin into layered clay minerals. Applied Clay Science, 2020, 186, 105418.	2.6	15
16	Research and Patents on Coronavirus and COVID-19: A Review. Recent Patents on Nanotechnology, 2020, 14, 328-350.	0.7	6
17	Layered double hydroxide/sepiolite hybrid nanoarchitectures for the controlled release of herbicides. Beilstein Journal of Nanotechnology, 2019, 10, 1679-1690.	1.5	19
18	CLAY-BASED BIOHYBRID MATERIALS FOR BIOMEDICAL AND PHARMACEUTICAL APPLICATIONS. Clays and Clay Minerals, 2019, 67, 44-58.	0.6	16

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19	Intercalation of metformin into montmorillonite. Dalton Transactions, 2018, 47, 3185-3192.	1.6	43
20	Silacrown Ethers-Clay Intercalation Materials: Application in Potentiometric Sensors for Detection of Alkali-Ions. Bulletin of the Chemical Society of Japan, 2018, 91, 608-616.	2.0	8
21	Building Up Functional Bionanocomposites from the Assembly of Clays and Biopolymers. Chemical Record, 2018, 18, 696-712.	2.9	25
22	The Meeting Point of Carbonaceous Materials and Clays: Toward a New Generation of Functional Composites. Advanced Functional Materials, 2018, 28, 1704323.	7.8	32
23	Functional Hybrid Nanopaper by Assembling Nanofibers of Cellulose and Sepiolite. Advanced Functional Materials, 2018, 28, 1703048.	7.8	49
24	Functional Carboxymethylcellulose/Zein Bionanocomposite Films Based on Neomycin Supported on Sepiolite or Montmorillonite Clays. ACS Omega, 2018, 3, 13538-13550.	1.6	35
25	Integration of a Copper-Containing Biohybrid (CuHARS) with Cellulose for Subsequent Degradation and Biomedical Control. International Journal of Environmental Research and Public Health, 2018, 15, 844.	1.2	8
26	Bionanocomposite foams based on the assembly of starch and alginate with sepiolite fibrous clay. Carbohydrate Polymers, 2017, 157, 1933-1939.	5.1	40
27	Conducting macroporous carbon foams derived from microwave-generated caramel/silica gel intermediates. Journal of Materials Science, 2017, 52, 11269-11281.	1.7	15
28	Effective intercalation of zein into Na-montmorillonite: role of the protein components and use of the developed biointerfaces. Beilstein Journal of Nanotechnology, 2016, 7, 1772-1782.	1.5	23
29	Clay-lipid nanohybrids: towards influenza vaccines and beyond. Clay Minerals, 2016, 51, 529-538.	0.2	8
30	Bionanocomposites based on polysaccharides and fibrous clays for packaging applications. Journal of Applied Polymer Science, 2016, 133, .	1.3	29
31	Ultrasound assisted preparation of chitosanâ€“vermiculite bionanocomposite foams for cadmium uptake. Applied Clay Science, 2016, 130, 40-49.	2.6	60
32	Smectite-chitosan-based electrodes in electrochemical detection of phenol and its derivatives. Applied Clay Science, 2016, 124-125, 62-68.	2.6	21
33	Functional Nanocomposites Based on Fibrous Clays. RSC Smart Materials, 2016, , 1-53.	0.1	6
34	Polysaccharideâ€“fibrous clay bionanocomposites. Applied Clay Science, 2014, 96, 2-8.	2.6	100
35	Pectin-coated chitosanâ€“LDH bionanocomposite beads as potential systems for colon-targeted drug delivery. International Journal of Pharmaceutics, 2014, 463, 1-9.	2.6	193
36	Clay-bionanocomposites with sacran megamolecules for the selective uptake of neodymium. Journal of Materials Chemistry A, 2014, 2, 1391-1399.	5.2	33

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37	Bionanocomposites containing magnetic graphite as potential systems for drug delivery. International Journal of Pharmaceutics, 2014, 477, 553-563.	2.6	36
38	Toward a green way for the chemical production of supported graphenes using porous solids. Journal of Materials Chemistry A, 2014, 2, 2009-2017.	5.2	31
39	Bionanocomposites based on layered silicates and cationic starch as eco-friendly adsorbents for hexavalent chromium removal. Dalton Transactions, 2014, 43, 10512-10520.	1.6	35
40	Silicate-based multifunctional nanostructured materials with magnetite and Prussian blue: application to cesium uptake. RSC Advances, 2014, 4, 35415.	1.7	39
41	Recent Advances on Fibrous Clay-Based Nanocomposites. Advances in Polymer Science, 2014, , 39-86.	0.4	25
42	Graphene-Clay Based Nanomaterials for Clean Energy Storage. Science of Advanced Materials, 2014, 6, 151-158.	0.1	27
43	Clay-supported graphene materials: application to hydrogen storage. Physical Chemistry Chemical Physics, 2013, 15, 18635.	1.3	69
44	Hierarchically structured bioactive foams based on polyvinyl alcoholâ€“sepiolite nanocomposites. Journal of Materials Chemistry B, 2013, 1, 2911.	2.9	25
45	Fibrous Clay Mineralâ€“Polymer Nanocomposites. Developments in Clay Science, 2013, 5, 721-741.	0.3	17
46	Fibrous clays based bionanocomposites. Progress in Polymer Science, 2013, 38, 1392-1414.	11.8	209
47	Biomimetic Architectures for the Impedimetric Discrimination of Influenza Virus Phenotypes. Advanced Functional Materials, 2013, 23, 254-262.	7.8	27
48	Agar-based bridges as biocompatible candidates to provide guide cues in spinal cord injury repair. Bio-Medical Materials and Engineering, 2013, 23, 405-421.	0.4	4
49	Efficient and Ecological Removal of Anionic Pollutants by Cationic Starch-Clay Bionanocomposites. Science of Advanced Materials, 2013, 5, 994-1005.	0.1	6
50	Bionanocomposites based on layered double hydroxides as drug delivery systems. , 2012, , .		0
51	One-Step Patterning of Hybrid Xerogel Materials for the Fabrication of Disposable Solid-State Light Emitters. ACS Applied Materials & Interfaces, 2012, 4, 5029-5037.	4.0	9
52	Chitosan-Clay Bio-Nanocomposites. Green Energy and Technology, 2012, , 365-391.	0.4	7
53	Lipidâ€Based Bioâ€Nanohybrids for Functional Stabilisation of Influenza Vaccines. European Journal of Inorganic Chemistry, 2012, 2012, 5186-5191.	1.0	30
54	Zein-Fibrous Clays Biohybrid Materials. European Journal of Inorganic Chemistry, 2012, 2012, 5216-5224.	1.0	45

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55	Advanced biohybrid materials based on nanoclays for biomedical applications. Proceedings of SPIE, 2012, , .	0.8	9
56	Phospholipidâ€“Sepiolite Biomimetic Interfaces for the Immobilization of Enzymes. ACS Applied Materials & Interfaces, 2011, 3, 4339-4348.	4.0	51
57	Gelatine-based bio-nanocomposites. , 2011, , 209-233.		4
58	Hybrid and biohybrid silicate based materials: molecular vs. block-assembling bottomâ€“up processes. Chemical Society Reviews, 2011, 40, 801-828.	18.7	199
59	Multifunctional Porous Materials Through Ferrofluids. Advanced Materials, 2011, 23, 5224-5228.	11.1	42
60	Progress in Bionanocomposite and Bioinspired Foams. Advanced Materials, 2011, 23, 5262-5267.	11.1	58
61	Supported Graphene from Natural Resources: Easy Preparation and Applications. Advanced Materials, 2011, 23, 5250-5255.	11.1	149
62	Bio-organoclays Based on Phospholipids as Immobilization Hosts for Biological Species. Langmuir, 2010, 26, 5217-5225.	1.6	89
63	Silacrown modified xerogels as functional hybrid materials for carbon composite electrodes. Comptes Rendus Chimie, 2010, 13, 227-236.	0.2	5
64	Advances in Biomimetic and Nanostructured Biohybrid Materials. Advanced Materials, 2010, 22, 323-336.	11.1	275
65	Hybrid materials based on clays for environmental and biomedical applications. Journal of Materials Chemistry, 2010, 20, 9306.	6.7	296
66	Bionanocomposites based on alginateâ€“zein/layered double hydroxide materials as drug delivery systems. Journal of Materials Chemistry, 2010, 20, 9495.	6.7	233
67	Multifunctional materials based on graphene-like/sepiolite nanocomposites. Applied Clay Science, 2010, 47, 203-211.	2.6	59
68	Algaeâ€“silica systems as functional hybrid materials. Journal of Materials Chemistry, 2010, 20, 9362-9369.	6.7	25
69	Gelatin-Clay Bio-Nanocomposites: Structural and Functional Properties as Advanced Materials. Journal of Nanoscience and Nanotechnology, 2009, 9, 221-229.	0.9	52
70	Bionanocomposites as New Carriers for Influenza Vaccines. Advanced Materials, 2009, 21, 4167-4171.	11.1	69
71	Multisensor device based on Case-Based Reasoning (CBR) for monitoring nutrient solutions in fertigation. Sensors and Actuators B: Chemical, 2009, 135, 530-536.	4.0	19
72	Hollow waveguide-based full-field absorbance biosensor. Sensors and Actuators B: Chemical, 2009, 139, 143-149.	4.0	8

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73	PROGRESS IN BIONANOCOMPOSITE MATERIALS. Annual Review of Nano Research, 2009, , 149-189.	0.2	11
74	Use of biopolymers as oriented supports for the stabilization of different polymorphs of biomineralized calcium carbonate with complex shape. Journal of Crystal Growth, 2008, 310, 5331-5340.	0.7	27
75	Full-field photonic biosensors based on tunable bio-doped solâ€“gel glasses. Lab on A Chip, 2008, 8, 1185.	3.1	26
76	Optical Biosensor Based On Hollow Integrated Waveguides. Analytical Chemistry, 2008, 80, 3498-3501.	3.2	22
77	Patterning High-Aspect-Ratio Solâ€“Gel Structures by Microtransfer Molding. Chemistry of Materials, 2008, 20, 2662-2668.	3.2	21
78	Design and preparation of bionanocomposites based on layered solids with functional and structural properties. Materials Science and Technology, 2008, 24, 1100-1110.	0.8	32
79	Polymer-Clay Nanocomposites as Precursors of Nanostructured Carbon Materials for Electrochemical Devices: Templating Effect of Clays. Journal of Nanoscience and Nanotechnology, 2008, 8, 1741-1750.	0.9	15
80	Polymer-clay nanocomposites as precursors of nanostructured carbon materials for electrochemical devices: templating effect of clays. Journal of Nanoscience and Nanotechnology, 2008, 8, 1741-50.	0.9	0
81	Novel magnetic organicâ€“inorganic nanostructured materials. Journal of Materials Chemistry, 2007, 17, 4233.	6.7	20
82	Functionalized Carbonâ€“Silicates from Caramelâ€“Sepiolite Nanocomposites. Angewandte Chemie - International Edition, 2007, 46, 923-925.	7.2	58
83	Bionanocomposites: A New Concept of Ecological, Bioinspired, and Functional Hybrid Materials. Advanced Materials, 2007, 19, 1309-1319.	11.1	593
84	Microfibrous Chitosanâ^'Sepiolite Nanocomposites. Chemistry of Materials, 2006, 18, 1602-1610.	3.2	196
85	Editorial [Trends in Bio-Hybrid Nanostructured Materials Guest Editors: Eduardo Ruiz-Hitzky and Margarita Darder]. Current Nanoscience, 2006, 2, 153-153.	0.7	12
86	Relevance of polymerâ€“ and biopolymerâ€“clay nanocomposites in electrochemical and electroanalytical applications. Thin Solid Films, 2006, 495, 104-112.	0.8	78
87	Encapsulation of enzymes in alumina membranes of controlled pore size. Thin Solid Films, 2006, 495, 321-326.	0.8	66
88	Gelation under dynamic conditions: A strategy for in vitro cell ordering. Journal of Materials Science: Materials in Medicine, 2006, 17, 795-802.	1.7	2
89	Bio-nanocomposites by Assembling of Gelatin and Layered Perovskite Mixed Oxides. Journal of Nanoscience and Nanotechnology, 2006, 6, 1602-1610.	0.9	19
90	Bio-Nanohybrids Based on Layered Inorganic Solids: Gelatin Nanocomposites. Current Nanoscience, 2006, 2, 231-241.	0.7	36

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91	Amino-polysiloxane hybrid materials as carbon composite electrodes for potentiometric detection of anions. Journal of Materials Chemistry, 2005, 15, 3844.	6.7	26
92	Amperometric Sensors Based on Mercaptopyridineâ˜'Montmorillonite Intercalation Compounds. Chemistry of Materials, 2005, 17, 708-715.	3.2	20
93	Bio-Nanocomposites Based on Layered Double Hydroxides. Chemistry of Materials, 2005, 17, 1969-1977.	3.2	261
94	Chitosanâ€"clay nanocomposites: application as electrochemical sensors. Applied Clay Science, 2005, 28, 199-208.	2.6	261
95	Caramelâ€"clay nanocomposites. Journal of Materials Chemistry, 2005, 15, 3913.	6.7	74
96	Functional biopolymer nanocomposites based on layered solids. Journal of Materials Chemistry, 2005, 15, 3650.	6.7	218
97	XPS and AFM Characterization of Oligonucleotides Immobilized on Gold Substrates. Langmuir, 2003, 19, 6230-6235.	1.6	42
98	Biopolymerâ˜'Clay Nanocomposites Based on Chitosan Intercalated in Montmorillonite. Chemistry of Materials, 2003, 15, 3774-3780.	3.2	612
99	Thiol-Functionalized Gold Surfaces as a Strategy to Induce Order in Membrane-Bound Enzyme Immobilization. Nano Letters, 2002, 2, 577-582.	4.5	21
100	Hybrid materials based on lichenâ€"polysiloxane matrices: application as electrochemical sensors. Journal of Materials Chemistry, 2002, 12, 3660-3664.	6.7	16
101	Peroxidase enzyme electrodes as nitric oxide biosensors. Analytica Chimica Acta, 2000, 403, 1-9.	2.6	32
102	Biosensors Based on Membrane-Bound Enzymes Immobilized in a 5-(Octyldithio)-2-nitrobenzoic Acid Layer on Gold Electrodes. Analytical Chemistry, 2000, 72, 3784-3792.	3.2	32
103	Concentration Dependence of Aggregate Formation upon Adsorption of 5-(Octyldithio)-2-nitrobenzoic Acid on Gold Electrodes. Langmuir, 2000, 16, 9804-9811.	1.6	8
104	Study of chemical modifiers for the determination of chromium in biological materials by tungsten coil electrothermal atomic absorption spectrometry. Fresenius' Journal of Analytical Chemistry, 1999, 364, 273-278.	1.5	14
105	Dithiobissuccinimidyl Propionate as an Anchor for Assembling Peroxidases at Electrodes Surfaces and Its Application in a H2O2 Biosensor. Analytical Chemistry, 1999, 71, 5530-5537.	3.2	121
106	Electrochemically Triggered Reaction of a Surface-Confined Reagent:â€‰ Mechanistic and EQCM Characterization of Redox-Active Self-Assembling Monolayers Derived from 5,5â€˜-Dithiobis(2-nitrobenzoic acid) and Related Materials. Langmuir, 1999, 15, 127-134.	1.6	37
107	Analytical strategies for amperometric biosensors based on chemically modified electrodes. Biosensors and Bioelectronics, 1998, 13, 319-332.	5.3	57
108	Electrodeposition of Redox-Active Films of Dihydroxybenzaldehydes and Related Analogs and Their Electrocatalytic Activity toward NADH Oxidation. Analytical Chemistry, 1996, 68, 3135-3142.	3.2	121

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109	Bionanocomposites Based on Clay Minerals. , 0, , 233-257.		2