

Montserrat Colilla

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

5,887
citations

70961

41
h-index

95083

68
g-index

74
all docs

74
docs citations

74
times ranked

6944
citing authors

#	ARTICLE	IF	CITATIONS
1	Biopolymer-Clay Nanocomposites Based on Chitosan Intercalated in Montmorillonite. <i>Chemistry of Materials</i> , 2003, 15, 3774-3780.	3.2	612
2	Studies on MCM-41 mesoporous silica for drug delivery: Effect of particle morphology and amine functionalization. <i>Chemical Engineering Journal</i> , 2008, 137, 30-37.	6.6	381
3	Medical applications of organic-inorganic hybrid materials within the field of silica-based bioceramics. <i>Chemical Society Reviews</i> , 2011, 40, 596-607.	18.7	352
4	Mesoporous Silica Nanoparticles for Drug Delivery: Current Insights. <i>Molecules</i> , 2018, 23, 47.	1.7	338
5	Chitosan-clay nanocomposites: application as electrochemical sensors. <i>Applied Clay Science</i> , 2005, 28, 199-208.	2.6	261
6	Advances in mesoporous silica nanoparticles for targeted stimuli-responsive drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2015, 12, 319-337.	2.4	230
7	Mesoporous silicananoparticles for the design of smart delivery nanodevices. <i>Biomaterials Science</i> , 2013, 1, 114-134.	2.6	224
8	Drug delivery from ordered mesoporous matrices. <i>Expert Opinion on Drug Delivery</i> , 2009, 6, 1383-1400.	2.4	164
9	Lectin-conjugated pH-responsive mesoporous silica nanoparticles for targeted bone cancer treatment. <i>Acta Biomaterialia</i> , 2018, 65, 393-404.	4.1	161
10	Structure and functionalization of mesoporous bioceramics for bone tissue regeneration and local drug delivery. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 1400-1421.	1.6	156
11	Advances in mesoporous silica-based nanocarriers for co-delivery and combination therapy against cancer. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 229-243.	2.4	152
12	Engineering mesoporous silica nanoparticles for drug delivery: where are we after two decades?. <i>Chemical Society Reviews</i> , 2022, 51, 5365-5451.	18.7	138
13	Bone-regenerative bioceramic implants with drug and protein controlled delivery capability. <i>Progress in Solid State Chemistry</i> , 2008, 36, 163-191.	3.9	129
14	Functionalization degree of SBA-15 as key factor to modulate sodium alendronate dosage. <i>Microporous and Mesoporous Materials</i> , 2008, 116, 4-13.	2.2	120
15	Synthesis and Characterization of Zwitterionic SBA-15 Nanostructured Materials. <i>Chemistry of Materials</i> , 2010, 22, 6459-6466.	3.2	94
16	Preparation of 3-D scaffolds in the SiO ₂ -P ₂ O ₅ system with tailored hierarchical meso-macroporosity. <i>Acta Biomaterialia</i> , 2011, 7, 1265-1273.	4.1	94
17	Mesoporous silica nanoparticles decorated with polycationic dendrimers for infection treatment. <i>Acta Biomaterialia</i> , 2018, 68, 261-271.	4.1	92
18	Surface Electrochemistry of Mesoporous Silicas as a Key Factor in the Design of Tailored Delivery Devices. <i>Langmuir</i> , 2010, 26, 5038-5049.	1.6	90

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19	Recent advances in ceramic implants as drug delivery systems for biomedical applications. <i>International Journal of Nanomedicine</i> , 2008, 3, 403.	3.3	89
20	Recent advances in mesoporous silica nanoparticles for antitumor therapy: our contribution. <i>Biomaterials Science</i> , 2016, 4, 803-813.	2.6	87
21	Tuning mesoporous silica dissolution in physiological environments: a review. <i>Journal of Materials Science</i> , 2017, 52, 8761-8771.	1.7	87
22	Advanced Drug Delivery Vectors with Tailored Surface Properties Made of Mesoporous Binary Oxides Submicronic Spheres. <i>Chemistry of Materials</i> , 2010, 22, 1821-1830.	3.2	85
23	L-Trp adsorption into silica mesoporous materials to promote bone formation. <i>Acta Biomaterialia</i> , 2008, 4, 514-522.	4.1	84
24	Novel Method To Enlarge the Surface Area of SBA-15. <i>Chemistry of Materials</i> , 2007, 19, 3099-3101.	3.2	83
25	Smart Mesoporous Nanomaterials for Antitumor Therapy. <i>Nanomaterials</i> , 2015, 5, 1906-1937.	1.9	79
26	In vitro stability of SBA-15 under physiological conditions. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 442-452.	2.2	73
27	A novel visible light responsive nanosystem for cancer treatment. <i>Nanoscale</i> , 2017, 9, 15967-15973.	2.8	72
28	Bioceramics and pharmaceuticals: A remarkable synergy. <i>Solid State Sciences</i> , 2007, 9, 768-776.	1.5	69
29	Nanostructured Mesoporous Silicas for Bone Tissue Regeneration. <i>Journal of Nanomaterials</i> , 2008, 2008, 1-14.	1.5	64
30	Drug Confinement and Delivery in Ceramic Implants. <i>Drug Metabolism Letters</i> , 2007, 1, 37-40.	0.5	63
31	A novel synthetic strategy for covalently bonding dendrimers to ordered mesoporous silica: potential drug delivery applications. <i>Journal of Materials Chemistry</i> , 2009, 19, 9012.	6.7	63
32	Mixed-charge pseudo-zwitterionic mesoporous silica nanoparticles with low-fouling and reduced cell uptake properties. <i>Acta Biomaterialia</i> , 2019, 84, 317-327.	4.1	63
33	Inhibition of bacterial adhesion on biocompatible zwitterionic SBA-15 mesoporous materials. <i>Acta Biomaterialia</i> , 2011, 7, 2977-2985.	4.1	62
34	Targeted Stimuli-Responsive Mesoporous Silica Nanoparticles for Bacterial Infection Treatment. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8605.	1.8	58
35	Amino-terminated Polysiloxane Hybrid Materials for Bone Reconstruction. <i>Chemistry of Materials</i> , 2006, 18, 5676-5683.	3.2	56
36	Concanavalin A-targeted mesoporous silica nanoparticles for infection treatment. <i>Acta Biomaterialia</i> , 2019, 96, 547-556.	4.1	55

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37	Incorporation of Phosphorus into Mesostructured Silicas: A Novel Approach to Reduce the SiO ₂ Leaching in Water. <i>Chemistry of Materials</i> , 2009, 21, 4135-4145.	3.2	53
38	Influence of surface porosity and pH on bacterial adherence to hydroxyapatite and biphasic calcium phosphate bioceramics. <i>Journal of Medical Microbiology</i> , 2009, 58, 132-137.	0.7	53
39	A novel zwitterionic bioceramic with dual antibacterial capability. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5639-5651.	2.9	51
40	Zwitterionic ceramics for biomedical applications. <i>Acta Biomaterialia</i> , 2016, 40, 201-211.	4.1	51
41	Selective topotecan delivery to cancer cells by targeted pH-sensitive mesoporous silica nanoparticles. <i>RSC Advances</i> , 2016, 6, 50923-50932.	1.7	46
42	Novel biomaterials for drug delivery. <i>Expert Opinion on Therapeutic Patents</i> , 2008, 18, 639-656.	2.4	42
43	Amine-Functionalized Mesoporous Silica Nanoparticles: A New Nanoantibiotic for Bone Infection Treatment. <i>Biomedical Glasses</i> , 2018, 4, 1-12.	2.4	42
44	Design and preparation of biocompatible zwitterionic hydroxyapatite. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1595.	2.9	40
45	Phosphorus-containing SBA-15 materials as bisphosphonate carriers for osteoporosis treatment. <i>Microporous and Mesoporous Materials</i> , 2010, 135, 51-59.	2.2	35
46	Zinc oxide nanocrystals as a nanoantibiotic and osteoinductive agent. <i>RSC Advances</i> , 2019, 9, 11312-11321.	1.7	34
47	Time-Delayed Release of Bioencapsulates: A Novel Controlled Delivery Concept for Bone Implant Technologies. <i>Chemistry of Materials</i> , 2008, 20, 4826-4834.	3.2	32
48	Application of a Carbon Paste Electrode Modified with a Schiff Base Ligand to Mercury Speciation in Water. <i>Electroanalysis</i> , 2005, 17, 933-940.	1.5	26
49	Amino-polysiloxane hybrid materials as carbon composite electrodes for potentiometric detection of anions. <i>Journal of Materials Chemistry</i> , 2005, 15, 3844.	6.7	26
50	The Role of Zwitterionic Materials in the Fight against Proteins and Bacteria. <i>Medicines (Basel)</i> , 2021, 10, 24.	0.7	24
51	Novel method to synthesize ordered mesoporous silica with high surface areas. <i>Solid State Sciences</i> , 2008, 10, 408-415.	1.5	23
52	Amperometric Sensors Based on Mercaptopyrindine~Montmorillonite Intercalation Compounds. <i>Chemistry of Materials</i> , 2005, 17, 708-715.	3.2	20
53	Impact of the antibiotic-cargo from MSNs on gram-positive and gram-negative bacterial biofilms. <i>Microporous and Mesoporous Materials</i> , 2021, 311, 110681.	2.2	20
54	Multisensor device based on Case-Based Reasoning (CBR) for monitoring nutrient solutions in fertigation. <i>Sensors and Actuators B: Chemical</i> , 2009, 135, 530-536.	4.0	19

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55	High resolution transmission electron microscopy: A key tool to understand drug release from mesoporous matrices. <i>Microporous and Mesoporous Materials</i> , 2016, 225, 399-410.	2.2	19
56	Superparamagnetic Iron Oxide Nanoparticles Decorated Mesoporous Silica Nanosystem for Combined Antibiofilm Therapy. <i>Pharmaceutics</i> , 2022, 14, 163.	2.0	19
57	Case-based reasoning (CBR) for multicomponent analysis using sensor arrays: Application to water quality evaluation. <i>Analyst, The</i> , 2002, 127, 1580-1582.	1.7	17
58	Hybrid materials based on lichen polysiloxane matrices: application as electrochemical sensors. <i>Journal of Materials Chemistry</i> , 2002, 12, 3660-3664.	6.7	16
59	Silica-Based Ordered Mesoporous Materials for Biomedical Applications. <i>Key Engineering Materials</i> , 2008, 377, 133-150.	0.4	14
60	A versatile multicomponent mesoporous silica nanosystem with dual antimicrobial and osteogenic effects. <i>Acta Biomaterialia</i> , 2021, 136, 570-581.	4.1	13
61	Nanoantibiotics Based in Mesoporous Silica Nanoparticles: New Formulations for Bacterial Infection Treatment. <i>Pharmaceutics</i> , 2021, 13, 2033.	2.0	11
62	4.35 Ordered Mesoporous Silica Materials \hat{a} †. , 2017, , 644-685.		9
63	Design of In Vitro Bioactive Hybrid Materials from the First Generation of Amine Dendrimers as Nanobuilding Blocks. <i>Chemistry - A European Journal</i> , 2013, 19, 4883-4895.	1.7	7
64	Drug Delivery and Bone Infection. <i>The Enzymes</i> , 2018, 44, 35-59.	0.7	7
65	Smart Drug Delivery from Silica Nanoparticles. <i>RSC Smart Materials</i> , 2013, , 63-89.	0.1	7
66	Novel insights into mesoporous ordered delivery systems for biotechnological applications. <i>Studies in Surface Science and Catalysis</i> , 2008, 174, 13-20.	1.5	5
67	Silacrown modified xerogels as functional hybrid materials for carbon composite electrodes. <i>Comptes Rendus Chimie</i> , 2010, 13, 227-236.	0.2	5
68	Ordered Mesoporous Silica Materials. , 2011, , 497-514.		5
69	Dendritic Macromolecules: New Possibilities for Advanced Bioceramics. <i>Key Engineering Materials</i> , 2010, 441, 235-267.	0.4	2
70	Amine-Functionalized Mesoporous Silica Nanoparticles: A New Nanoantibiotic for Bone Infection Treatment. <i>Biomedical Glasses</i> , 2017, 3, .	2.4	1
71	Commemorative Issue in Honor of Professor MarĀa Vallet RegĀ: 20 Years of Silica-Based Mesoporous Materials. <i>Pharmaceutics</i> , 2022, 14, 125.	2.0	0