

Montserrat Colilla

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8120051/publications.pdf>

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	Superparamagnetic Iron Oxide Nanoparticles Decorated Mesoporous Silica Nanosystem for Combined Antibiofilm Therapy. <i>Pharmaceutics</i> , 2022, 14, 163.	2.0	19
2	Commemorative Issue in Honor of Professor Mar À a Vallet Reg À : 20 Years of Silica-Based Mesoporous Materials. <i>Pharmaceutics</i> , 2022, 14, 125.	2.0	0
3	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
4	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
5	A versatile multicomponent mesoporous silica nanosystem with dual antimicrobial and osteogenic effects. <i>Acta Biomaterialia</i> , 2021, 136, 570-581.	4.1	13
6	Nanoantibiotics Based in Mesoporous Silica Nanoparticles: New Formulations for Bacterial Infection Treatment. <i>Pharmaceutics</i> , 2021, 13, 2033.	2.0	11
7	Targeted Stimuli-Responsive Mesoporous Silica Nanoparticles for Bacterial Infection Treatment. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8605.	1.8	58
8	Concanavalin A-targeted mesoporous silica nanoparticles for infection treatment. <i>Acta Biomaterialia</i> , 2019, 96, 547-556.	4.1	55
9	Zinc oxide nanocrystals as a nanoantibiotic and osteoinductive agent. <i>RSC Advances</i> , 2019, 9, 11312-11321.	1.7	34
10	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
11	Amine-Functionalized Mesoporous Silica Nanoparticles: A New Nanoantibiotic for Bone Infection Treatment. <i>Biomedical Glasses</i> , 2018, 4, 1-12.	2.4	42
12	Mesoporous silica nanoparticles decorated with polycationic dendrimers for infection treatment. <i>Acta Biomaterialia</i> , 2018, 68, 261-271.	4.1	92
13	Lectin-conjugated pH-responsive mesoporous silica nanoparticles for targeted bone cancer treatment. <i>Acta Biomaterialia</i> , 2018, 65, 393-404.	4.1	161
14	The Role of Zwitterionic Materials in the Fight against Proteins and Bacteria. <i>Medicines (Basel)</i> , 2018, 5, 24.	0.7	24
15	Drug Delivery and Bone Infection. <i>The Enzymes</i> , 2018, 44, 35-59.	0.7	7
16	Mesoporous Silica Nanoparticles for Drug Delivery: Current Insights. <i>Molecules</i> , 2018, 23, 47.	1.7	338
17	Tuning mesoporous silica dissolution in physiological environments: a review. <i>Journal of Materials Science</i> , 2017, 52, 8761-8771.	1.7	87
18	A novel visible light responsive nanosystem for cancer treatment. <i>Nanoscale</i> , 2017, 9, 15967-15973.	2.8	72

#	ARTICLE	IF	CITATIONS
19	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
20	4.35 Ordered Mesoporous Silica Materials <i>â†</i> . , 2017, , 644-685.		9
21	Amine-Functionalized Mesoporous Silica Nanoparticles: A New Nanoantibiotic for Bone Infection Treatment. <i>Biomedical Glasses</i> , 2017, 3, .	2.4	1
22	Selective topotecan delivery to cancer cells by targeted pH-sensitive mesoporous silica nanoparticles. <i>RSC Advances</i> , 2016, 6, 50923-50932.	1.7	46
23	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
24	Recent advances in mesoporous silica nanoparticles for antitumor therapy: our contribution. <i>Biomaterials Science</i> , 2016, 4, 803-813.	2.6	87
25	Zwitterionic ceramics for biomedical applications. <i>Acta Biomaterialia</i> , 2016, 40, 201-211.	4.1	51
26	Smart Mesoporous Nanomaterials for Antitumor Therapy. <i>Nanomaterials</i> , 2015, 5, 1906-1937.	1.9	79
27	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
28	A novel zwitterionic bioceramic with dual antibacterial capability. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5639-5651.	2.9	51
29	Design of Inâ€...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
30	Design and preparation of biocompatible zwitterionic hydroxyapatite. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1595.	2.9	40
31	Mesoporous silicananoparticles for the design of smart delivery nanodevices. <i>Biomaterials Science</i> , 2013, 1, 114-134.	2.6	224
32	Smart Drug Delivery from Silica Nanoparticles. <i>RSC Smart Materials</i> , 2013, , 63-89.	0.1	7
33	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
34	Ordered Mesoporous Silica Materials. , 2011, , 497-514.		5
35	Medical applications of organicâ€inorganic hybrid materials within the field of silica-based bioceramics. <i>Chemical Society Reviews</i> , 2011, 40, 596-607.	18.7	352
36	Inhibition of bacterial adhesion on biocompatible zwitterionic SBA-15 mesoporous materials. <i>Acta Biomaterialia</i> , 2011, 7, 2977-2985.	4.1	62

#	ARTICLE	IF	CITATIONS
37	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
38	Silacrown modified xerogels as functional hybrid materials for carbon composite electrodes. <i>Comptes Rendus Chimie</i> , 2010, 13, 227-236.	0.2	5
39	Phosphorus-containing SBA-15 materials as bisphosphonate carriers for osteoporosis treatment. <i>Microporous and Mesoporous Materials</i> , 2010, 135, 51-59.	2.2	35
40	In vitro stability of SBA-15 under physiological conditions. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 442-452.	2.2	73
41	Dendritic Macromolecules: New Possibilities for Advanced Bioceramics. <i>Key Engineering Materials</i> , 2010, 441, 235-267.	0.4	2
42	Synthesis and Characterization of Zwitterionic SBA-15 Nanostructured Materials. <i>Chemistry of Materials</i> , 2010, 22, 6459-6466.	3.2	94
43	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
44	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
45	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
46	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
47	Drug delivery from ordered mesoporous matrices. <i>Expert Opinion on Drug Delivery</i> , 2009, 6, 1383-1400.	2.4	164
48	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
49	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
50	L-Trp adsorption into silica mesoporous materials to promote bone formation. <i>Acta Biomaterialia</i> , 2008, 4, 514-522.	4.1	84
51	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
52	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
53	Novel method to synthesize ordered mesoporous silica with high surface areas. <i>Solid State Sciences</i> , 2008, 10, 408-415.	1.5	23
54	Novel biomaterials for drug delivery. <i>Expert Opinion on Therapeutic Patents</i> , 2008, 18, 639-656.	2.4	42

#	ARTICLE	IF	CITATIONS
55	Bone-regenerative bioceramic implants with drug and protein controlled delivery capability. Progress in Solid State Chemistry, 2008, 36, 163-191.	3.9	129
56	Novel insights into mesoporous ordered delivery systems for biotechnological applications. Studies in Surface Science and Catalysis, 2008, 174, 13-20.	1.5	5
57	Time-Delayed Release of Bioencapsulates: A Novel Controlled Delivery Concept for Bone Implant Technologies. Chemistry of Materials, 2008, 20, 4826-4834.	3.2	32
58	Nanostructured Mesoporous Silicas for Bone Tissue Regeneration. Journal of Nanomaterials, 2008, 2008, 1-14.	1.5	64
59	Silica-Based Ordered Mesoporous Materials for Biomedical Applications. Key Engineering Materials, 2008, 377, 133-150.	0.4	14
60	Recent advances in ceramic implants as drug delivery systems for biomedical applications. International Journal of Nanomedicine, 2008, 3, 403.	3.3	89
61	Drug Confinement and Delivery in Ceramic Implants. Drug Metabolism Letters, 2007, 1, 37-40.	0.5	63
62	Novel Method To Enlarge the Surface Area of SBA-15. Chemistry of Materials, 2007, 19, 3099-3101.	3.2	83
63	Bioceramics and pharmaceuticals: A remarkable synergy. Solid State Sciences, 2007, 9, 768-776.	1.5	69
64	Amino-polysiloxane Hybrid Materials for Bone Reconstruction. Chemistry of Materials, 2006, 18, 5676-5683.	3.2	56
65	Application of a Carbon Paste Electrode Modified with a Schiff Base Ligand to Mercury Speciation in Water. Electroanalysis, 2005, 17, 933-940.	1.5	26
66	Amino-polysiloxane hybrid materials as carbon composite electrodes for potentiometric detection of anions. Journal of Materials Chemistry, 2005, 15, 3844.	6.7	26
67	Amperometric Sensors Based on Mercaptopyridine-Montmorillonite Intercalation Compounds. Chemistry of Materials, 2005, 17, 708-715.	3.2	20
68	Chitosan-clay nanocomposites: application as electrochemical sensors. Applied Clay Science, 2005, 28, 199-208.	2.6	261
69	Biopolymer-clay Nanocomposites Based on Chitosan Intercalated in Montmorillonite. Chemistry of Materials, 2003, 15, 3774-3780.	3.2	612
70	Case-based reasoning (CBR) for multicomponent analysis using sensor arrays: Application to water quality evaluation. Analyst, The, 2002, 127, 1580-1582.	1.7	17
71	Hybrid materials based on lichen-polysiloxane matrices: application as electrochemical sensors. Journal of Materials Chemistry, 2002, 12, 3660-3664.	6.7	16