

Alfonso Garcia Garca-Bennett

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78
papers

3,582
citations

27
h-index

59
g-index

85
ext. papers

3,874
ext. citations

7
avg, IF

5.39
L-index

#	Paper	IF	Citations
78	Better safe than sorry: Understanding the toxicological properties of inorganic nanoparticles manufactured for biomedical applications. <i>Advanced Drug Delivery Reviews</i> , 2010 , 62, 362-74	18.5	547
77	A novel anionic surfactant templating route for synthesizing mesoporous silica with unique structure. <i>Nature Materials</i> , 2003 , 2, 801-5	27	505
76	Mesoporous silica particles induce size dependent effects on human dendritic cells. <i>Nano Letters</i> , 2007 , 7, 3576-82	11.5	225
75	Mechanisms and kinetics for sorption of CO ₂ on bicontinuous mesoporous silica modified with n-propylamine. <i>Langmuir</i> , 2011 , 27, 11118-28	4	216
74	Temperature-induced uptake of CO ₂ and formation of carbamates in mesocaged silica modified with n-propylamines. <i>Langmuir</i> , 2010 , 26, 10013-24	4	135
73	A novel high specific surface area conducting paper material composed of polypyrrole and Cladophora cellulose. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 12249-55	3.4	107
72	Synthesis of large-pore Ia3d mesoporous silica and its tubelike carbon replica. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 3930-4	16.4	106
71	Structural Investigations of AMS-n Mesoporous Materials by Transmission Electron Microscopy. <i>Chemistry of Materials</i> , 2004 , 16, 813-821	9.6	101
70	In search of the Holy Grail: Folate-targeted nanoparticles for cancer therapy. <i>Biochemical Pharmacology</i> , 2011 , 81, 976-84	6	99
69	Structural Solution of Mesocaged Material AMS-8. <i>Chemistry of Materials</i> , 2004 , 16, 3597-3605	9.6	93
68	Synthesis of mesocage structures by kinetic control of self-assembly in anionic surfactants. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 5317-22	16.4	93
67	Microsomal glutathione transferase 1 protects against toxicity induced by silica nanoparticles but not by zinc oxide nanoparticles. <i>ACS Nano</i> , 2012 , 6, 1925-38	16.7	87
66	Synthesis, toxicology and potential of ordered mesoporous materials in nanomedicine. <i>Nanomedicine</i> , 2011 , 6, 867-77	5.6	80
65	Three-dimensional low symmetry mesoporous silica structures templated from tetra-headgroup rigid bolaform quaternary ammonium surfactant. <i>Journal of the American Chemical Society</i> , 2005 , 127, 6780-7	16.4	77
64	Efficient internalization of mesoporous silica particles of different sizes by primary human macrophages without impairment of macrophage clearance of apoptotic or antibody-opsonized target cells. <i>Toxicology and Applied Pharmacology</i> , 2009 , 239, 306-19	4.6	75
63	Aluminophosphates for CO ₂ separation. <i>ChemSusChem</i> , 2011 , 4, 91-7	8.3	60
62	Nonsurfactant supramolecular synthesis of ordered mesoporous silica. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3189-91	16.4	56

61	Adjuvant properties of mesoporous silica particles tune the development of effector T cells. <i>Small</i> , 2012 , 8, 2116-24	11	53
60	Structure and morphology of propylthiol-functionalised mesoporous silicas templated by non-ionic triblock copolymers. <i>Microporous and Mesoporous Materials</i> , 2005 , 79, 241-252	5.3	53
59	Particle-size control and surface structure of the cubic mesocaged material AMS-8. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2434-8	16.4	46
58	Control of structure, pore size and morphology of three-dimensionally ordered mesoporous silicas prepared using the dicationic surfactant [CH ₃ (CH ₂) ₁₅ N(CH ₃) ₂ (CH ₂) ₃ N(CH ₃) ₃]Br ₂ . <i>Journal of Materials Chemistry</i> , 2002 , 12, 3533-3540		45
57	Macrophage activation status determines the internalization of mesoporous silica particles of different sizes: Exploring the role of different pattern recognition receptors. <i>Biomaterials</i> , 2017 , 121, 28-40	15.6	43
56	Growth of mesoporous materials within colloidal crystal films by spin-coating. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19643-9	3.4	40
55	Mesoporous silica-based nanomaterials for drug delivery: evaluation of structural properties associated with release rate. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2009 , 1, 140-148	9.2	39
54	In vivo enhancement in bioavailability of atazanavir in the presence of proton-pump inhibitors using mesoporous materials. <i>ChemMedChem</i> , 2012 , 7, 43-8	3.7	33
53	Hydrothermal Phase Transformation of Bicontinuous Cubic Mesoporous Material AMS-6. <i>Chemistry of Materials</i> , 2008 , 20, 3857-3866	9.6	32
52	Influence of microporosity in SBA-15 on the release properties of anticancer drug dasatinib. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 5265-5271	7.3	30
51	Co-structure directing agent induced phase transformation of mesoporous materials. <i>Langmuir</i> , 2009 , 25, 3189-95	4	27
50	Particle morphology and microstructure in the mesoporous silicate SBA-2. <i>Journal of Materials Chemistry</i> , 2002 , 12, 20-23		27
49	Self-assembly mechanism of folate-templated mesoporous silica. <i>Langmuir</i> , 2013 , 29, 12003-12	4	25
48	Sustained release from mesoporous nanoparticles: evaluation of structural properties associated with release rate. <i>Current Drug Delivery</i> , 2008 , 5, 177-85	3.2	25
47	Mesoporous silica particles potentiate antigen-specific T-cell responses. <i>Nanomedicine</i> , 2014 , 9, 1835-46	5.6	24
46	Delivery of differentiation factors by mesoporous silica particles assists advanced differentiation of transplanted murine embryonic stem cells. <i>Stem Cells Translational Medicine</i> , 2013 , 2, 906-15	6.9	23
45	Structural study of meso-porous materials by electron microscopy. <i>Studies in Surface Science and Catalysis</i> , 2004 , 148, 261-288	1.8	22
44	Application of mesoporous silica materials for the immobilization of polyphenol oxidase. <i>Food Chemistry</i> , 2017 , 217, 360-363	8.5	21

43	In vivo oral toxicological evaluation of mesoporous silica particles. <i>Nanomedicine</i> , 2013 , 8, 57-64	5.6	20
42	Large pore mesoporous silica induced weight loss in obese mice. <i>Nanomedicine</i> , 2014 , 9, 1353-62	5.6	19
41	The synthesis of chiral periodic organosilica materials with ultrasmall mesopores. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8095-9	16.4	16
40	Synthesis of Mesocage Structures by Kinetic Control of Self-Assembly in Anionic Surfactants. <i>Angewandte Chemie</i> , 2005 , 117, 5451-5456	3.6	16
39	Supramolecular transcription of guanosine monophosphate into mesostructured silica. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12106-10	16.4	15
38	Chiral Resolution using Supramolecular-Templated Mesostructured Materials. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10859-10862	16.4	14
37	Mesoporous Matrices as Hosts for Metal Halide Perovskite Nanocrystals. <i>Advanced Optical Materials</i> , 2020 , 8, 1901868	8.1	14
36	Encapsulation of Anti-Tuberculosis Drugs within Mesoporous Silica and Intracellular Antibacterial Activities. <i>Nanomaterials</i> , 2014 , 4, 813-826	5.4	14
35	Simultaneous Functionalization of Carbon Surfaces with Rhodium and Iridium Organometallic Complexes: Hybrid Bimetallic Catalysts for Hydroamination. <i>Organometallics</i> , 2019 , 38, 780-787	3.8	14
34	Structures of Silica-Based Nanoporous Materials Revealed by Microscopy. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014 , 640, 521-536	1.3	12
33	A mechanistic study of the formation of mesoporous structures from in situ AC conductivity measurements. <i>Langmuir</i> , 2007 , 23, 9875-81	4	12
32	The role of curvature in silica mesoporous crystals. <i>Interface Focus</i> , 2012 , 2, 634-44	3.9	10
31	Influence of surface chemistry on the formation of a protein corona on nanodiamonds. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 3383-3389	7.3	9
30	Effect of a protein corona on the fibrinogen induced cellular oxidative stress of gold nanoparticles. <i>Nanoscale</i> , 2020 , 12, 5898-5905	7.7	9
29	Probing the Amorphous State of Pharmaceutical Compounds Within Mesoporous Material Using Pair Distribution Function Analysis. <i>Journal of Pharmaceutical Sciences</i> , 2018 , 107, 2216-2224	3.9	8
28	Influence of surface composition on the colloidal stability of ultra-small detonation nanodiamonds in biological media. <i>Diamond and Related Materials</i> , 2018 , 83, 38-45	3.5	8
27	In vitro generation of motor neuron precursors from mouse embryonic stem cells using mesoporous nanoparticles. <i>Nanomedicine</i> , 2014 , 9, 2457-66	5.6	8
26	Bicontinuous cubic mesoporous materials with biphasic structures. <i>Chemistry - A European Journal</i> , 2011 , 17, 13510-6	4.8	7

25	Proton absorption in as-synthesized mesoporous silica nanoparticles as a structure-function relationship probing mechanism. <i>Langmuir</i> , 2009 , 25, 4306-10	4	7
24	On the use of polymeric dispersant P123 in the synthesis of bicontinuous cubic mesoporous AMS-6. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3622		7
23	Release of folic acid in mesoporous NFM-1 silica. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 7398-401	1.3	6
22	Structural variations in mesoporous materials with cubic Pm $\bar{3}$ m symmetry. <i>Microporous and Mesoporous Materials</i> , 2010 , 133, 27-35	5.3	6
21	Studies of anionic surfactant templated mesoporous structures by electron microscopy. <i>Studies in Surface Science and Catalysis</i> , 2005 , 11-18	1.8	6
20	Influence of a Protein Corona on the Oral Pharmacokinetics of Testosterone Released from Mesoporous Silica. <i>Advanced Therapeutics</i> , 2020 , 3, 1900110	4.9	6
19	Non-absorbable mesoporous silica for the development of protein sequestration therapies. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 468, 428-34	3.4	5
18	Microporosity, Pore Size, and Diffusional Path Length Modulate Lipolysis Kinetics of Triglycerides Adsorbed onto SBA-15 Mesoporous Silica Particles. <i>Langmuir</i> , 2020 , 36, 3367-3376	4	5
17	Pharmacokinetics of exogenous melatonin in relation to formulation, and effects on sleep: A systematic review. <i>Sleep Medicine Reviews</i> , 2021 , 57, 101431	10.2	5
16	Antioxidant properties of probucol released from mesoporous silica. <i>European Journal of Pharmaceutical Sciences</i> , 2019 , 138, 105038	5.1	4
15	The Synthesis of Chiral Periodic Organosilica Materials with Ultrasmall Mesopores. <i>Angewandte Chemie</i> , 2011 , 123, 8245-8249	3.6	4
14	Morphological properties of nanoporous folic acid materials and in vitro assessment of their biocompatibility. <i>Nanomedicine</i> , 2012 , 7, 327-34	5.6	4
13	Chiral Resolution using Supramolecular-Templated Mesostructured Materials. <i>Angewandte Chemie</i> , 2019 , 131, 10975-10978	3.6	3
12	Supramolecular Transcription of Guanosine Monophosphate into Mesostructured Silica. <i>Angewandte Chemie</i> , 2014 , 126, 12302-12306	3.6	3
11	Particle-Size Control and Surface Structure of the Cubic Mesocaged Material AMS-8. <i>Angewandte Chemie</i> , 2006 , 118, 2494-2498	3.6	3
10	A lysozyme corona complex for the controlled pharmacokinetic release of probucol from mesoporous silica particles. <i>Biomaterials Science</i> , 2020 , 8, 3800-3803	7.4	2
9	Dispersed Uniform Nanoparticles from a Macroscopic Organosilica Powder. <i>Langmuir</i> , 2018 , 34, 2274-2281		2
8	Electron microscopic investigation of mesoporous SBA-2. <i>Studies in Surface Science and Catalysis</i> , 2002 , 141, 379-386	1.8	1

- 7 Tissue engineered model of hepatic breast cancer micrometastasis shows host-dependent colonization patterns and drug responses 1
- 6 Pore structure and particle shape modulates the protein corona of mesoporous silica particles. *Materials Advances*, **2020**, 1, 599-603 3.3 1
- 5 Equilibrium and Kinetic Study of l- and d-Valine Adsorption in Supramolecular-Templated Chiral Mesoporous Materials. *Molecules*, **2021**, 26, 4.8 1
- 4 On the growth of the soft and hard protein corona of mesoporous silica particles with varying morphology.. *Journal of Colloid and Interface Science*, **2021**, 612, 467-478 9.3 0
- 3 Toxicology of Mesoporous Silica Particles and Their Uses in Nanomedicine. *Frontiers in Nanobiomedical Research*, **2014**, 75-96
- 2 A unique insight into the defect structures of bicontinuous mesophases in liquid crystals and hybrid materials. *IUCrJ*, **2020**, 7, 146-147 4.7
- 1 Mesoporous ASD: Fundamentals. *Advances in Delivery Science and Technology*, **2014**, 637-663