Alfonso Garcia GarcÃ-a-Bennett

List of Publications by Year
in descending order

78 papers	4,110 citations	185998 28 h-index	114278 63 g-index
85 all docs	85 docs citations	85 times ranked	5694 citing authors

#	Article	IF	Citations
1	Better safe than sorry: Understanding the toxicological properties of inorganic nanoparticles manufactured for biomedical applications. Advanced Drug Delivery Reviews, 2010, 62, 362-374.	6.6	624
2	A novel anionic surfactant templating route for synthesizing mesoporous silica with unique structure. Nature Materials, 2003, 2, 801-805.	13.3	540
3	Mechanisms and Kinetics for Sorption of CO₂ on Bicontinuous Mesoporous Silica Modified with n-Propylamine. Langmuir, 2011, 27, 11118-11128.	1.6	260
4	Mesoporous Silica Particles Induce Size Dependent Effects on Human Dendritic Cells. Nano Letters, 2007, 7, 3576-3582.	4.5	255
5	Temperature-Induced Uptake of CO₂ and Formation of Carbamates in Mesocaged Silica Modified with n-Propylamines. Langmuir, 2010, 26, 10013-10024.	1.6	155
6	A Novel High Specific Surface Area Conducting Paper Material Composed of Polypyrrole and Cladophora Cellulose. Journal of Physical Chemistry B, 2008, 112, 12249-12255.	1.2	120
7	Synthesis of Large-Porelad Mesoporous Silica and Its Tubelike Carbon Replica. Angewandte Chemie - International Edition, 2003, 42, 3930-3934.	7.2	116
8	Structural Investigations of AMS-n Mesoporous Materials by Transmission Electron Microscopy. Chemistry of Materials, 2004, 16, 813-821.	3.2	115
9	In search of the Holy Grail: Folate-targeted nanoparticles for cancer therapy. Biochemical Pharmacology, 2011, 81, 976-984.	2.0	108
10	Structural Solution of Mesocaged Material AMS-8. Chemistry of Materials, 2004, 16, 3597-3605.	3.2	101
11	Microsomal Glutathione Transferase 1 Protects Against Toxicity Induced by Silica Nanoparticles but Not by Zinc Oxide Nanoparticles. ACS Nano, 2012, 6, 1925-1938.	7.3	100
12	Synthesis of Mesocage Structures by Kinetic Control of Self-Assembly in Anionic Surfactants. Angewandte Chemie - International Edition, 2005, 44, 5317-5322.	7.2	98
13	Synthesis, toxicology and potential of ordered mesoporous materials in nanomedicine. Nanomedicine, 2011, 6, 867-877.	1.7	89
14	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. Toxicology and Applied Pharmacology, 2009, 239, 306-319.	1.3	81
15	Three-Dimensional Low Symmetry Mesoporous Silica Structures Templated from Tetra-Headgroup Rigid Bolaform Quaternary Ammonium Surfactant. Journal of the American Chemical Society, 2005, 127, 6780-6787.	6.6	79
16	Aluminophosphates for CO₂ Separation. ChemSusChem, 2011, 4, 91-97.	3.6	70
17	Adjuvant Properties of Mesoporous Silica Particles Tune the Development of Effector T Cells. Small, 2012, 8, 2116-2124.	5.2	62
18	Nonsurfactant Supramolecular Synthesis of Ordered Mesoporous Silica. Journal of the American Chemical Society, 2009, 131, 3189-3191.	6.6	59

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19	Macrophage activation status determines the internalization of mesoporous silica particles of different sizes: Exploring the role of different pattern recognition receptors. Biomaterials, 2017, 121, 28-40.	5.7	58
20	Structure and morphology of propylthiol-functionalised mesoporous silicas templated by non-ionic triblock copolymers. Microporous and Mesoporous Materials, 2005, 79, 241-252.	2.2	56
21	Control of structure, pore size and morphology of three-dimensionally ordered mesoporous silicas prepared using the dicationic surfactant [CH3(CH2)15N(CH3)2(CH2)3N(CH3)3]Br2. Journal of Materials Chemistry, 2002, 12, 3533-3540.	6.7	48
22	Particle-Size Control and Surface Structure of the Cubic Mesocaged Material AMS-8. Angewandte Chemie - International Edition, 2006, 45, 2434-2438.	7.2	46
23	Mesoporous silicaâ€based nanomaterials for drug delivery: evaluation of structural properties associated with release rate. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2009, 1, 140-148.	3.3	45
24	Growth of Mesoporous Materials within Colloidal Crystal Films by Spin-Coating. Journal of Physical Chemistry B, 2005, 109, 19643-19649.	1.2	44
25	In vivo Enhancement in Bioavailability of Atazanavir in the Presence of Protonâ€Pump Inhibitors using Mesoporous Materials. ChemMedChem, 2012, 7, 43-48.	1.6	38
26	Hydrothermal Phase Transformation of Bicontinuous Cubic Mesoporous Material AMS-6. Chemistry of Materials, 2008, 20, 3857-3866.	3.2	37
27	Influence of microporosity in SBA-15 on the release properties of anticancer drug dasatinib. Journal of Materials Chemistry B, 2014, 2, 5265.	2.9	34
28	Co-Structure Directing Agent Induced Phase Transformation of Mesoporous Materials. Langmuir, 2009, 25, 3189-3195.	1.6	30
29	Mesoporous Matrices as Hosts for Metal Halide Perovskite Nanocrystals. Advanced Optical Materials, 2020, 8, 1901868.	3.6	30
30	Mesoporous silica particles potentiate antigen-specific T-cell responses. Nanomedicine, 2014, 9, 1835-1846.	1.7	28
31	Particle morphology and microstructure in the mesoporous silicate SBA-2. Journal of Materials Chemistry, 2002, 12, 20-23.	6.7	27
32	Self-Assembly Mechanism of Folate-Templated Mesoporous Silica. Langmuir, 2013, 29, 12003-12012.	1.6	27
33	Delivery of Differentiation Factors by Mesoporous Silica Particles Assists Advanced Differentiation of Transplanted Murine Embryonic Stem Cells. Stem Cells Translational Medicine, 2013, 2, 906-915.	1.6	27
34	Large pore mesoporous silica induced weight loss in obese mice. Nanomedicine, 2014, 9, 1353-1362.	1.7	27
35	Sustained Release from Mesoporous Nanoparticles: Evaluation of Structural Properties Associated with Release Rate. Current Drug Delivery, 2008, 5, 177-185.	0.8	27
36	Application of mesoporous silica materials for the immobilization of polyphenol oxidase. Food Chemistry, 2017, 217, 360-363.	4.2	26

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37	Structural study of meso-porous materials by electron microscopy. Studies in Surface Science and Catalysis, 2004, 148, 261-288.	1.5	24
38	In vivo oral toxicological evaluation of mesoporous silica particles. Nanomedicine, 2013, 8, 57-64.	1.7	24
39	Encapsulation of Anti-Tuberculosis Drugs within Mesoporous Silica and Intracellular Antibacterial Activities. Nanomaterials, 2014, 4, 813-826.	1.9	21
40	Chiral Resolution using Supramolecularâ€Templated Mesostructured Materials. Angewandte Chemie - International Edition, 2019, 58, 10859-10862.	7.2	19
41	The Synthesis of Chiral Periodic Organosilica Materials with Ultrasmall Mesopores. Angewandte Chemie - International Edition, 2011, 50, 8095-8099.	7.2	18
42	Simultaneous Functionalization of Carbon Surfaces with Rhodium and Iridium Organometallic Complexes: Hybrid Bimetallic Catalysts for Hydroamination. Organometallics, 2019, 38, 780-787.	1.1	17
43	Effect of a protein corona on the fibrinogen induced cellular oxidative stress of gold nanoparticles. Nanoscale, 2020, 12, 5898-5905.	2.8	17
44	Pharmacokinetics of exogenous melatonin in relation to formulation, and effects on sleep: A systematic review. Sleep Medicine Reviews, 2021, 57, 101431.	3.8	17
45	Supramolecular Transcription of Guanosine Monophosphate into Mesostructured Silica. Angewandte Chemie - International Edition, 2014, 53, 12106-12110.	7.2	16
46	Influence of surface composition on the colloidal stability of ultra-small detonation nanodiamonds in biological media. Diamond and Related Materials, 2018, 83, 38-45.	1.8	15
47	Influence of surface chemistry on the formation of a protein corona on nanodiamonds. Journal of Materials Chemistry B, 2019, 7, 3383-3389.	2.9	15
48	Structures of Silicaâ€Based Nanoporous Materials Revealed by Microscopy. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 521-536.	0.6	14
49	Gold Nanostars with Reduced Fouling Facilitate Small Molecule Detection in the Presence of Protein. Nanomaterials, 2021, 11, 2565.	1.9	13
50	A Mechanistic Study of the Formation of Mesoporous Structures from in Situ AC Conductivity Measurements. Langmuir, 2007, 23, 9875-9881.	1.6	12
51	In vitrogeneration of motor neuron precursors from mouse embryonic stem cells using mesoporous nanoparticles. Nanomedicine, 2014, 9, 2457-2466.	1.7	12
52	Probing the Amorphous State of Pharmaceutical Compounds Within Mesoporous Material Using Pair Distribution Function Analysis. Journal of Pharmaceutical Sciences, 2018, 107, 2216-2224.	1.6	12
53	The role of curvature in silica mesoporous crystals. Interface Focus, 2012, 2, 634-644.	1.5	10
54	Release of Folic Acid in Mesoporous NFM-1 Silica. Journal of Nanoscience and Nanotechnology, 2010, 10, 7398-7401.	0.9	8

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55	Bicontinuous Cubic Mesoporous Materials with Biphasic Structures. Chemistry - A European Journal, 2011, 17, 13510-13516.	1.7	8
56	Antioxidant properties of probucol released from mesoporous silica. European Journal of Pharmaceutical Sciences, 2019, 138, 105038.	1.9	8
57	Studies of anionic surfactant templated mesoporous structures by electron microscopy. Studies in Surface Science and Catalysis, 2005, , 11-18.	1.5	7
58	On the use of polymeric dispersant P123 in the synthesis of bicontinuous cubic mesoporous AMS-6. Journal of Materials Chemistry, 2007, 17, 3622.	6.7	7
59	Proton Absorption in As-Synthesized Mesoporous Silica Nanoparticles as a Structure-Function Relationship Probing Mechanism. Langmuir, 2009, 25, 4306-4310.	1.6	7
60	Structural variations in mesoporous materials with cubic Pmn symmetry. Microporous and Mesoporous Materials, 2010, 133, 27-35.	2.2	7
61	Non-absorbable mesoporous silica for the development of protein sequestration therapies. Biochemical and Biophysical Research Communications, 2015, 468, 428-434.	1.0	7
62	Influence of a Protein Corona on the Oral Pharmacokinetics of Testosterone Released from Mesoporous Silica. Advanced Therapeutics, 2020, 3, 1900110.	1.6	7
63	Microporosity, Pore Size, and Diffusional Path Length Modulate Lipolysis Kinetics of Triglycerides Adsorbed onto SBA-15 Mesoporous Silica Particles. Langmuir, 2020, 36, 3367-3376.	1.6	7
64	On the growth of the soft and hard protein corona of mesoporous silica particles with varying morphology. Journal of Colloid and Interface Science, 2022, 612, 467-478.	5.0	6
65	Pore structure and particle shape modulates the protein corona of mesoporous silica particles. Materials Advances, 2020, 1, 599-603.	2.6	5
66	Equilibrium and Kinetic Study of l- and d-Valine Adsorption in Supramolecular-Templated Chiral Mesoporous Materials. Molecules, 2021, 26, 338.	1.7	5
67	Enhanced Antioxidant Effects of the Anti-Inflammatory Compound Probucol When Released from Mesoporous Silica Particles. Pharmaceutics, 2022, 14, 502.	2.0	5
68	Morphological properties of nanoporous folic acid materials and in vitro assessment of their biocompatibility. Nanomedicine, 2012, 7, 327-334.	1.7	4
69	A lysozyme corona complex for the controlled pharmacokinetic release of probucol from mesoporous silica particles. Biomaterials Science, 2020, 8, 3800-3803.	2.6	4
70	Chiral Resolution using Supramolecularâ€Templated Mesostructured Materials. Angewandte Chemie, 2019, 131, 10975-10978.	1.6	3
71	Dispersed Uniform Nanoparticles from a Macroscopic Organosilica Powder. Langmuir, 2018, 34, 2274-2281.	1.6	2
72	Effects of Absorption Kinetics on the Catabolism of Melatonin Released from CAP-Coated Mesoporous Silica Drug Delivery Vehicles. Pharmaceutics, 2021, 13, 1436.	2.0	2

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73	Chick Embryo Experimental Platform for Micrometastases Research in a 3D Tissue Engineering Model: Cancer Biology, Drug Development, and Nanotechnology Applications. Biomedicines, 2021, 9, 1578.	1.4	2
74	Role of Silica Intrawall Microporosity on Abiraterone Acetate Solubilization and In Vivo Oral Absorption. Molecular Pharmaceutics, 2022, 19, 1091-1103.	2.3	2
75	Electron microscopic investigation of mesoporous SBA-2. Studies in Surface Science and Catalysis, 2002, 141, 379-386.	1.5	1
76	Toxicology of Mesoporous Silica Particles and Their Uses in Nanomedicine. Frontiers in Nanobiomedical Research, 2014, , 75-96.	0.1	0
77	Mesoporous ASD: Fundamentals. Advances in Delivery Science and Technology, 2014, , 637-663.	0.4	0
78	A unique insight into the defect structures of bicontinuous mesophases in liquid crystals and hybrid materials. IUCrJ, 2020, 7, 146-147.	1.0	0