

# Ana M Beltran

## List of Publications by Year in descending order

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76  
papers

1,118  
citations

394390

19  
h-index

454934

30  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1591  
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro/Macroporous System: MFI-Type Zeolite Crystals with Embedded Macropores. <i>Advanced Materials</i> , 2015, 27, 1066-1070.	21.0	93
2	Aqueous Near-Infrared Fluorescent Composites Based on Apoferritin-Encapsulated PbS Quantum Dots. <i>Advanced Materials</i> , 2008, 20, 3592-3596.	21.0	79
3	Synthesis and characterization of manganese containing mesoporous bioactive glass nanoparticles for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 64.	3.6	68
4	Timing of calcium nitrate addition affects morphology, dispersity and composition of bioactive glass nanoparticles. <i>RSC Advances</i> , 2016, 6, 95101-95111.	3.6	64
5	Bioactive glass (45S5)-based 3D scaffolds coated with magnesium and zinc-loaded hydroxyapatite nanoparticles for tissue engineering applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 182, 110346.	5.0	39
6	The role of cobalt hydroxide in deactivation of thin film Co-based catalysts for sodium borohydride hydrolysis. <i>Applied Catalysis B: Environmental</i> , 2017, 210, 342-351.	20.2	37
7	Fe <sub>3</sub> O <sub>4</sub> -Au Core-Shell Nanoparticles as a Multimodal Platform for In Vivo Imaging and Focused Photothermal Therapy. <i>Pharmaceutics</i> , 2021, 13, 416.	4.5	34
8	Incorporation of Sb in InAs-GaAs quantum dots. <i>Applied Physics Letters</i> , 2007, 91, 263105.	3.3	29
9	Uniform Surface Modification of 3D Bioglass-Based Scaffolds with Mesoporous Silica Particles (MCM-41) for Enhancing Drug Delivery Capability. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 177.	4.1	29
10	Surface modification of Ti-6Al-4V alloys manufactured by selective laser melting: Microstructural and tribo-mechanical characterization. <i>Surface and Coatings Technology</i> , 2018, 348, 31-40.	4.8	29
11	Biofunctional and Tribomechanical Behavior of Porous Titanium Substrates Coated with a Bioactive Glass Bilayer (45S5-1393). <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 30170-30180.	8.0	27
12	Incorporation of Calcium Containing Mesoporous (MCM-41-Type) Particles in Electrospun PCL Fibers by Using Benign Solvents. <i>Polymers</i> , 2017, 9, 487.	4.5	25
13	Synthesis and deposition of silver nanoparticles on porous titanium substrates for biomedical applications. <i>Surface and Coatings Technology</i> , 2021, 406, 126667.	4.8	25
14	Tailor-made preparation of Co-C, Co-B, and Co catalytic thin films using magnetron sputtering: insights into structure-composition and activation effects for catalyzed NaBH <sub>4</sub> hydrolysis. <i>RSC Advances</i> , 2016, 6, 108611-108620.	3.6	24
15	High performance novel gadolinium doped ceria/yttria stabilized zirconia/nickel layered and hybrid thin film anodes for application in solid oxide fuel cells. <i>Journal of Power Sources</i> , 2017, 363, 251-259.	7.8	24
16	Bacterial behavior on coated porous titanium substrates for biomedical applications. <i>Surface and Coatings Technology</i> , 2019, 357, 896-902.	4.8	24
17	Anti-inflammatory and antibacterial activities of cerium-containing mesoporous bioactive glass nanoparticles for drug-free biomedical applications. <i>Materials Today Bio</i> , 2021, 12, 100150.	5.5	24
18	Balancing Porosity and Mechanical Properties of Titanium Samples to Favor Cellular Growth against Bacteria. <i>Metals</i> , 2019, 9, 1039.	2.3	23

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19	Porous Titanium Cylinders Obtained by the Freeze-Casting Technique: Influence of Process Parameters on Porosity and Mechanical Behavior. <i>Metals</i> , 2020, 10, 188.	2.3	22
20	High resolution electron microscopy of GaAs capped GaSb nanostructures. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	17
21	Blocking of indium incorporation by antimony in III-V-Sb nanostructures. <i>Nanotechnology</i> , 2010, 21, 145606.	2.6	16
22	Surface nickel particles generated by exsolution from a perovskite structure. <i>Journal of Solid State Chemistry</i> , 2019, 273, 75-80.	2.9	15
23	Fabrication and characterization of superficially modified porous dental implants. <i>Surface and Coatings Technology</i> , 2021, 408, 126796.	4.8	15
24	World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (WCO-IOF-ESCEO) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	3.1	15
25	Structural and optical changes induced by incorporation of antimony into InAs/GaAs(001) quantum dots. <i>Physical Review B</i> , 2010, 82, .	3.2	14
26	Three dimensional atom probe imaging of GaAsSb quantum rings. <i>Ultramicroscopy</i> , 2011, 111, 1073-1076.	1.9	14
27	Transfer of Individual Micro- and Nanoparticles for High-Precision 3D Analysis Using 360° Electron Tomography. <i>Small Methods</i> , 2018, 2, 1700276.	8.6	14
28	Porous titanium substrates coated with a bilayer of bioactive glasses. <i>Journal of Non-Crystalline Solids</i> , 2020, 544, 120206.	3.1	14
29	Porous Titanium Surfaces to Control Bacteria Growth: Mechanical Properties and Sulfonated Polyetheretherketone Coatings as Antibiofouling Approaches. <i>Metals</i> , 2019, 9, 995.	2.3	13
30	Influence of the porosity and type of bioglass on the micro-mechanical and bioactive behavior of coated porous titanium substrates. <i>Journal of Non-Crystalline Solids</i> , 2021, 551, 120436.	3.1	13
31	Influence of Successive Chemical and Thermochemical Treatments on Surface Features of Ti6Al4V Samples Manufactured by SLM. <i>Metals</i> , 2021, 11, 313.	2.3	13
32	Iron-Gold Nanoflowers: A Promising Tool for Multimodal Imaging and Hyperthermia Therapy. <i>Pharmaceutics</i> , 2022, 14, 636.	4.5	13
33	Mesoporous silica submicron particles (MCM-41) incorporating nanoscale Ag: synthesis, characterization and application as drug delivery coatings. <i>Journal of Porous Materials</i> , 2019, 26, 443-453.	2.6	12
34	Tailoring materials by high-energy ball milling: TiO <sub>2</sub> mixtures for catalyst support application. <i>Materials Today Chemistry</i> , 2020, 17, 100340.	3.5	12
35	Tribo-mechanical and cellular behavior of superficially modified porous titanium samples using femtosecond laser. <i>Surface and Coatings Technology</i> , 2021, 422, 127555.	4.8	12
36	Comparative Study of Electrical and Microstructural Properties of 4H-SiC MOSFETs. <i>Materials Science Forum</i> , 0, 717-720, 437-440.	0.3	11

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37	Formation of Spatially Addressed Ga(As)Sb Quantum Rings on GaAs(001) Substrates by Droplet Epitaxy. <i>Crystal Growth and Design</i> , 2009, 9, 1216-1218.	3.0	10
38	Biofunctionalization of Porous Ti Substrates Coated with Ag Nanoparticles for Potential Antibacterial Behavior. <i>Metals</i> , 2021, 11, 692.	2.3	10
39	Combination of Selective Etching and Impregnation toward Hollow Mesoporous Bioactive Glass Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 1846.	4.1	10
40	Deposition of bioactive gelatin coatings on porous titanium: Influence of processing parameters, size and pore morphology. <i>Surface and Coatings Technology</i> , 2021, 421, 127366.	4.8	10
41	Insights about the interaction of methotrexate loaded hydrophilic gold nanoparticles: Spectroscopic, morphological and structural characterizations. <i>Materials Science and Engineering C</i> , 2020, 117, 111337.	7.3	9
42	Magnetic 3D scaffolds for tissue engineering applications: bioactive glass (45S5) coated with iron-loaded hydroxyapatite nanoparticles. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 055006.	3.3	9
43	Study of the interaction mechanism between hydrophilic thiol capped gold nanoparticles and melamine in aqueous medium. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 203, 111727.	5.0	9
44	Low temperature synthesis of transparent conductive boron doped diamond films for optoelectronic applications: Role of hydrogen on the electrical properties. <i>Applied Materials Today</i> , 2020, 19, 100633.	4.3	8
45	Fabrication and characterization of Ag and Ga doped mesoporous glass-coated scaffolds based on natural marine sponges with improved mechanical properties. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 1309-1327.	4.0	7
46	PEGylated Terbium-Based Nanorods as Multimodal Bioimaging Contrast Agents. <i>ACS Applied Nano Materials</i> , 2021, 4, 4199-4207.	5.0	7
47	Development of Novel Mesoporous Silica-Based Bioactive Glass Scaffolds with Drug Delivery Capabilities. <i>Advances in Science and Technology</i> , 0, , .	0.2	6
48	Engineering of III-Nitride Semiconductors on Low Temperature Co-fired Ceramics. <i>Scientific Reports</i> , 2018, 8, 6879.	3.3	6
49	Strong activation effect on a Ru-Co-C thin film catalyst for the hydrolysis of sodium borohydride. <i>Scientific Reports</i> , 2018, 8, 9755.	3.3	6
50	Synthesis of a cubic Ti(BCN) advanced ceramic by a solid-gas mechanochemical reaction. <i>Ceramics International</i> , 2019, 45, 3878-3885.	4.8	6
51	A Structural Comparison of Ordered and Non-Ordered Ion Doped Silicate Bioactive Glasses. <i>Materials</i> , 2020, 13, 992.	2.9	6
52	Theoretical modelling of quaternary GaInAsSb/GaAs self-assembled quantum dots. <i>Journal of Physics: Conference Series</i> , 2010, 245, 012081.	0.4	4
53	Structural characterization of GaSb-capped InAs/GaAs quantum dots with a GaAs intermediate layer. <i>Materials Letters</i> , 2011, 65, 1608-1610.	2.6	4
54	Quantitative study of the interfacial intermixing and segregation effects across the wetting layer of Ga(As,Sb)-capped InAs quantum dots. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	4

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55	Biodegradability of spherical mesoporous silica particles (MCM-41) in simulated body fluid (SBF). <i>American Mineralogist</i> , 2018, 103, 350-354.	1.9	4
56	Superficial Characteristics and Functionalization Effectiveness of Non-Toxic Glutathione-Capped Magnetic, Fluorescent, Metallic and Hybrid Nanoparticles for Biomedical Applications. <i>Metals</i> , 2021, 11, 383.	2.3	4
57	Nano-Analytical and Electrical Characterization of 4H-SiC MOSFETs. <i>Materials Science Forum</i> , 0, 711, 134-138.	0.3	3
58	Atomic scale characterization of SiO <sub>2</sub> /4H-SiC interfaces in MOSFETs devices. <i>Solid State Communications</i> , 2015, 221, 28-32.	1.9	3
59	(S)TEM structural and compositional nanoanalyses of chemically synthesized glutathione-shelled nanoparticles. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 2295-2301.	3.1	3
60	Effect of heat treatment on apatite coatings deposited on pre-calcified titanium substrates. <i>International Journal of Materials Research</i> , 2018, 110, 351-358.	0.3	3
61	Bioactive Bilayer Glass Coating on Porous Titanium Substrates with Enhanced Biofunctional and Tribomechanical Behavior. <i>Coatings</i> , 2022, 12, 245.	2.6	3
62	Influence of Femtosecond Laser Modification on Biomechanical and Biofunctional Behavior of Porous Titanium Substrates. <i>Materials</i> , 2022, 15, 2969.	2.9	3
63	Compositional analysis of InAs-GaAs-GaSb heterostructures by Low-Loss Electron Energy Loss Spectroscopy. <i>Journal of Physics: Conference Series</i> , 2013, 471, 012012.	0.4	2
64	A Simple and Economical Device to Process Ti Cylinders with Elongated Porosity by Freeze-Casting Techniques: Design and Manufacturing. <i>Key Engineering Materials</i> , 0, 770, 255-261.	0.4	2
65	Electron microscopy characterization of the reaction layer in titanium composites reinforced with B <sub>4</sub> C particles and the effect of the presence of aluminium. <i>Materials Research Express</i> , 2019, 6, 116518.	1.6	2
66	High-Resolution Electron Microscopy of Semiconductor Heterostructures and Nanostructures. <i>Springer Series in Materials Science</i> , 2012, , 23-62.	0.6	2
67	Reaction Layer Analysis of In Situ Reinforced Titanium Composites: Influence of the Starting Material Composition on the Mechanical Properties. <i>Metals</i> , 2020, 10, 265.	2.3	1
68	Publisher's Note: Structural and optical changes induced by incorporation of antimony into InAs/GaAs(001) quantum dots [Phys. Rev. B82, 235316 (2010)]. <i>Physical Review B</i> , 2010, 82, .	3.2	0
69	Structural and compositional analysis of Co-based coatings after catalytic tests for the sodium borohydride hydrolysis. <i>Materials Research Express</i> , 2019, 6, 085511.	1.6	0
70	Synthesis and size evolution of 1D hydroxyapatite crystals under surfactant-free hydrothermal conditions. <i>Journal of Physics: Conference Series</i> , 2019, 1386, 012076.	0.4	0
71	Editorial: Tailored Porous Biomaterials for Hard and Soft Tissues: Focus on Surface Functionalization. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	0
72	Structural Origin of Enhanced Luminescence Efficiency of Antimony Irradiated InAs Quantum Dots. <i>Advanced Science Letters</i> , 2011, 4, 3776-3778.	0.2	0

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73	TEM characterization of InAs/GaAs quantum dots capped by a GaSb/GaAs layer. , 2008, , 45-46.		0
74	Characterization and modelling of semiconductor quantum nanostructures grown by droplet epitaxy. , 2008, , 91-92.		0
75	Synthesis and Characterization of Pd over Novel TiO <sub>2</sub> Mixtures: Insights on Metal-Support Interactions. , 2020, 2, .		0
76	Surface Modification, Functionalization and Characterization of Metallic Biomaterials. Metals, 2022, 12, 667.	2.3	0