

# Ana M Beltran

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8425740/publications.pdf>

Version: 2024-02-01

76  
papers

1,118  
citations

394421

19  
h-index

454955

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

#	ARTICLE	IF	CITATIONS
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: TiO2 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

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

#	ARTICLE	IF	CITATIONS
55	Biodegradability of spherical mesoporous silica particles (MCM-41) in simulated body fluid (SBF). American Mineralogist, 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. Metals, 2021, 11, 383.	2.3	4
57	Nano-Analytical and Electrical Characterization of 4H-SiC MOSFETs. Materials Science Forum, 0, 711, 134-138.	0.3	3
58	Atomic scale characterization of SiO <sub>2</sub> /4H-SiC interfaces in MOSFETs devices. Solid State Communications, 2015, 221, 28-32.	1.9	3
59	(S)TEM structural and compositional nanoanalyses of chemically synthesized glutathione-shelled nanoparticles. Applied Nanoscience (Switzerland), 2020, 10, 2295-2301.	3.1	3
60	Effect of heat treatment on apatite coatings deposited on pre-calcified titanium substrates. International Journal of Materials Research, 2018, 110, 351-358.	0.3	3
61	Bioactive Bilayer Glass Coating on Porous Titanium Substrates with Enhanced Biofunctional and Tribomechanical Behavior. Coatings, 2022, 12, 245.	2.6	3
62	Influence of Femtosecond Laser Modification on Biomechanical and Biofunctional Behavior of Porous Titanium Substrates. Materials, 2022, 15, 2969.	2.9	3
63	Compositional analysis of InAs-GaAs-GaSb heterostructures by Low-Loss Electron Energy Loss Spectroscopy. Journal of Physics: Conference Series, 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. Key Engineering Materials, 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. Materials Research Express, 2019, 6, 116518.	1.6	2
66	High-Resolution Electron Microscopy of Semiconductor Heterostructures and Nanostructures. Springer Series in Materials Science, 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. Metals, 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)]. Physical Review B, 2010, 82, .	3.2	0
69	Structural and compositional analysis of Co-based coatings after catalytic tests for the sodium borohydride hydrolysis. Materials Research Express, 2019, 6, 085511.	1.6	0
70	Synthesis and size evolution of 1D hydroxyapatite crystals under surfactant-free hydrothermal conditions. Journal of Physics: Conference Series, 2019, 1386, 012076.	0.4	0
71	Editorial: Tailored Porous Biomaterials for Hard and Soft Tissues: Focus on Surface Functionalization. Frontiers in Materials, 2021, 8, .	2.4	0
72	Structural Origin of Enhanced Luminescence Efficiency of Antimony Irradiated InAs Quantum Dots. Advanced Science Letters, 2011, 4, 3776-3778.	0.2	0

#	ARTICLE	IF	CITATIONS
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