Nuria Vilaboa

List of Publications by Year in descending order

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92 papers	3,787 citations	147566 31 h-index	133063 59 g-index
95 all docs	95 docs citations	95 times ranked	6277 citing authors

#	Article	IF	Citations
1	A Narrative Review of Cell-Based Approaches for Cranial Bone Regeneration. Pharmaceutics, 2022, 14, 132.	2.0	10
2	Wear of hip prostheses increases serum IGFBP-1 levels in patients with aseptic loosening. Scientific Reports, 2021, 11, 576.	1.6	1
3	Vitamin B9 derivatives as carriers of bioactive cations for musculoskeletal regeneration applications: Synthesis, characterization and biological evaluation. European Journal of Medicinal Chemistry, 2021, 212, 113152.	2.6	4
4	Polylactide, Processed by a Foaming Method Using Compressed Freon R134a, for Tissue Engineering. Polymers, 2021, 13, 3453.	2.0	0
5	Chitosan-stabilized silver nanoclusters with luminescent, photothermal and antibacterial properties. Carbohydrate Polymers, 2020, 250, 116973.	5.1	31
6	Recent efforts in the development of nanomaterials to control transgene expression. Nanomedicine, 2020, 15, 2019-2022.	1.7	0
7	Local delivery of bone morphogenetic protein-2 from near infrared-responsive hydrogels for bone tissue regeneration. Biomaterials, 2020, 241, 119909.	5.7	45
8	Influence of inflammatory conditions provided by macrophages on osteogenic ability of mesenchymal stem cells. Stem Cell Research and Therapy, 2020, 11, 57.	2.4	41
9	Herpes Simplex Viruses Whose Replication Can Be Deliberately Controlled as Candidate Vaccines. Vaccines, 2020, 8, 230.	2.1	3
10	Glycerylphytate compounds with tunable ion affinity and osteogenic properties. Scientific Reports, 2019, 9, 11491.	1.6	19
11	Gold nanoparticles for the in situ polymerization of near-infrared responsive hydrogels based on fibrin. Acta Biomaterialia, 2019, 100, 306-315.	4.1	10
12	Immunoregulatory potential of mesenchymal stem cells following activation by macrophage-derived soluble factors. Stem Cell Research and Therapy, 2019, 10, 58.	2.4	126
13	Spatiotemporally-controlled transgene expression in hydroxyapatite-fibrin composite scaffolds using high intensity focused ultrasound. Biomaterials, 2019, 194, 14-24.	5.7	15
14	Osteolysis After Total Hip Arthroplasty: Basic Science. , 2019, , 1-31.		3
15	Pro-angiogenic near infrared-responsive hydrogels for deliberate transgene expression. Acta Biomaterialia, 2018, 78, 123-136.	4.1	11
16	Electrochemical comparative study on corrosion behavior of conventional and powder metallurgy titanium alloys in physiological conditions. Metal Powder Report, 2017, 72, 118-123.	0.3	7
17	Antibacterial effect of novel biodegradable and bioresorbable PLDA/Mg composites. Biomedical Materials (Bristol), 2017, 12, 015025.	1.7	13
18	Photothermal and photodynamic activity of polymeric nanoparticles based on Î±-tocopheryl succinate-RAFT block copolymers conjugated to IR-780. Acta Biomaterialia, 2017, 57, 70-84.	4.1	35

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19	New inhibitor targeting human transcription factor HSF1: effects on the heat shock response and tumor cell survival. Nucleic Acids Research, 2017, 45, 5797-5817.	6.5	54
20	Development of Recombinant HSV-Based Vaccine Vectors. Methods in Molecular Biology, 2017, 1581, 55-78.	0.4	6
21	Lipogels responsive to near-infrared light for the triggered release of therapeutic agents. Acta Biomaterialia, 2017, 61, 54-65.	4.1	14
22	Substrate Microarchitecture Shapes the Paracrine Crosstalk of Stem Cells with Endothelial Cells and Osteoblasts. Scientific Reports, 2017, 7, 15182.	1.6	15
23	Paracrine interactions between mesenchymal stem cells and macrophages are regulated by 1,25-dihydroxyvitamin D3. Scientific Reports, 2017, 7, 14618.	1.6	18
24	Incorporation of Mg particles into PDLLA regulates mesenchymal stem cell and macrophage responses. Journal of Biomedical Materials Research - Part A, 2016, 104, 866-878.	2.1	50
25	Bioactivity of dexamethasone-releasing coatings on polymer/magnesium composites. Biomedical Materials (Bristol), 2016, 11, 055011.	1.7	12
26	On the interactions of human bone cells with Ti6Al4V thermally oxidized by means of laser shock processing. Biomedical Materials (Bristol), 2016, 11, 015009.	1.7	15
27	Remote Patterning of Transgene Expression Using Near Infrared-Responsive Plasmonic Hydrogels. Methods in Molecular Biology, 2016, 1408, 281-292.	0.4	1
28	A novel approach for addressing diseases not yielding to effective vaccination? Immunization by replication-competent controlled virus. Expert Review of Vaccines, 2015, 14, 637-651.	2.0	6
29	Topographical cues regulate the crosstalk between MSCs and macrophages. Biomaterials, 2015, 37, 124-133.	5.7	100
30	Replication-Competent Controlled Herpes Simplex Virus. Journal of Virology, 2015, 89, 10668-10679.	1.5	8
31	Patterning Expression of Regenerative Growth Factors Using High Intensity Focused Ultrasound. Tissue Engineering - Part C: Methods, 2014, 20, 769-779.	1.1	20
32	Mechanical forces regulate stem cell response to surface topography. Journal of Biomedical Materials Research - Part A, 2014, 102, 128-140.	2.1	18
33	Human boneâ€lineage cell responses to anisotropic Ti6Al4V surfaces are dependent on their maturation state. Journal of Biomedical Materials Research - Part A, 2014, 102, 3154-3166.	2.1	3
34	Temporal and spatial patterning of transgene expression by near-infrared irradiation. Biomaterials, 2014, 35, 8134-8143.	5.7	23
35	Decrease of Staphylococcal adhesion on surgical stainless steel after Si ion implantation. Applied Surface Science, 2014, 310, 36-41.	3.1	15
36	Functionalization of 3D scaffolds with protein-releasing biomaterials for intracellular delivery. Journal of Controlled Release, 2013, 171, 63-72.	4.8	22

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37	Spatiotemporal Control of Vascular Endothelial Growth Factor Expression Using a Heat-Shock-Activated, Rapamycin-Dependent Gene Switch. Human Gene Therapy Methods, 2013, 24, 160-170.	2.1	22
38	Advanced BMP Gene Therapies for Temporal and Spatial Control of Bone Regeneration. Journal of Dental Research, 2013, 92, 409-417.	2.5	31
39	Stability and biocompatibility of photothermal gold nanorods after lyophilization and sterilization. Materials Research Bulletin, 2013, 48, 4051-4057.	2.7	17
40	Simvastatin prevents the induction of interleukin-6 gene expression by titanium particles in human osteoblastic cells. Acta Biomaterialia, 2013, 9, 4916-4925.	4.1	16
41	Enhancing of plasmonic photothermal therapy through heat-inducible transgene activity. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 646-656.	1.7	30
42	Controlled silanizationâ€“amination reactions on the Ti6Al4V surface for biomedical applications. Colloids and Surfaces B: Biointerfaces, 2013, 106, 248-257.	2.5	35
43	Ultrasound-induced hyperthermia for the spatio-temporal control of gene expression in bone repair. AIP Conference Proceedings, 2012, , .	0.3	1
44	Feasibility of ceramic-polymer composite cryogels as scaffolds for bone tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2012, 6, 421-433.	1.3	17
45	Involvement of extracellular Hsp72 in wear particle-mediated osteolysis. Acta Biomaterialia, 2012, 8, 1146-1155.	4.1	11
46	Grit blasting of medical stainless steel: implications on its corrosion behavior, ion release and biocompatibility. Journal of Materials Science: Materials in Medicine, 2012, 23, 657-666.	1.7	20
47	Nanomechanical properties of novel intermetallic coatings developed on austenitic stainless steels by siliconisation in liquid phase. Intermetallics, 2011, 19, 260-266.	1.8	12
48	Bacterial adhesion reduction on a biocompatible Si+ ion implanted austenitic stainless steel. Materials Science and Engineering C, 2011, 31, 1567-1576.	3.8	15
49	Size-dependent transfection efficiency of PEI-coated gold nanoparticles. Acta Biomaterialia, 2011, 7, 3645-3655.	4.1	86
50	In search of representative models of human bone-forming cells for cytocompatibility studies. Acta Biomaterialia, 2011, 7, 4210-4221.	4.1	72
51	Corrosion behaviour and biocompatibility of a novel Ni-free intermetallic coating growth on austenitic steel by hot dipping in an Alâ€“12.6%Si alloy. Journal of Materials Science: Materials in Medicine, 2011, 22, 1005-1014.	1.7	9
52	On the role of the colloidal stability of mesoporous silica nanoparticles as gene delivery vectors. Journal of Nanoparticle Research, 2011, 13, 4097-4108.	0.8	18
53	On the role of RhoA/ROCK signaling in contact guidance of bone-forming cells on anisotropic Ti6Al4V surfaces. Acta Biomaterialia, 2011, 7, 1890-1901.	4.1	41
54	Assessment of the Evolution of Cancer Treatment Therapies. Cancers, 2011, 3, 3279-3330.	1.7	624

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55	Gene Switches for Deliberate Regulation of Transgene Expression: Recent Advances in System Development and Uses. Journal of Genetic Syndromes & Gene Therapy, 2011, 02, .	0.2	8
56	Osteolysis and Aseptic Loosening: Cellular Events Near the Implant. , 2011, , 181-191.		1
57	Identification of a Frameshift Mutation in Osterix in a Patient with Recessive Osteogenesis Imperfecta. American Journal of Human Genetics, 2010, 87, 110-114.	2.6	246
58	Effects of micrometric titanium particles on osteoblast attachment and cytoskeleton architecture. Acta Biomaterialia, 2010, 6, 1649-1660.	4.1	57
59	Magnetic mesoporous silica spheres for hyperthermia therapy. Acta Biomaterialia, 2010, 6, 4522-4531.	4.1	117
60	Drug delivery from internally implanted biomedical devices used in traumatology and in orthopedic surgery. Expert Opinion on Drug Delivery, 2010, 7, 589-603.	2.4	21
61	Interactions of human bone cells with diamond-like carbon polymer hybrid coatings. Acta Biomaterialia, 2010, 6, 3325-3338.	4.1	22
62	Identification of differentially expressed genes in trabecular bone from the iliac crest of osteoarthritic patients. Osteoarthritis and Cartilage, 2009, 17, 1106-1114.	0.6	25
63	In vitro biocompatibility and bacterial adhesion of physico-chemically modified Ti6Al4V surface by means of UV irradiation. Acta Biomaterialia, 2009, 5, 181-192.	4.1	131
64	Calcium phosphate-based particles influence osteogenic maturation of human mesenchymal stem cells. Acta Biomaterialia, 2009, 5, 1294-1305.	4.1	53
65	Rutile and titanium particles differentially affect the production of osteoblastic local factors. Journal of Biomedical Materials Research - Part A, 2008, 84A, 324-336.	2.1	34
66	Modulation of the cross-talk between macrophages and osteoblasts by titanium-based particles. Biomaterials, 2008, 29, 2326-2335.	5.7	44
67	Deliberate Regulation of Therapeutic Transgenes. , 2008, , .		0
68	Thermal oxidation enhances early interactions between human osteoblasts and alumina blasted Ti6Al4V alloy. Journal of Biomedical Materials Research - Part A, 2007, 81A, 334-346.	2.1	39
69	In vitro biocompatibility of an ultrafine grained zirconium. Biomaterials, 2007, 28, 4343-4354.	5.7	161
70	Differential inflammatory macrophage response to rutile and titanium particles. Biomaterials, 2006, 27, 5199-5211.	5.7	76
71	Concentration-dependent effects of titanium and aluminium ions released from thermally oxidized Ti6Al4V alloy on human osteoblasts. Journal of Biomedical Materials Research - Part A, 2006, 77A, 220-229.	2.1	29
72	Osteoblast response to plasma-spray porous Ti6Al4V coating on substrates of identical alloy. Journal of Biomedical Materials Research - Part A, 2006, 77A, 608-617.	2.1	18

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73	Alumina particles influence the interactions of cocultured osteoblasts and macrophages. Journal of Orthopaedic Research, 2006, 24, 46-54.	1.2	29
74	Regulatable Gene Expression Systems for Gene Therapy. Current Gene Therapy, 2006, 6, 421-438.	0.9	53
75	Osteoblast response to thermally oxidized Ti6Al4V alloy. Journal of Biomedical Materials Research - Part A, 2005, 73A, 97-107.	2.1	51
76	Novel Gene Switches for Targeted and Timed Expression of Proteins of Interest. Molecular Therapy, 2005, 12, 290-298.	3.7	41
77	A novel E2 box-GATA element modulates Cdc6 transcription during human cells polyploidization. Nucleic Acids Research, 2004, 32, 6454-6467.	6.5	16
78	Regulation of CDC6, Geminin, and CDT1 in Human Cells that Undergo Polyploidization. Molecular Biology of the Cell, 2002, 13, 3989-4000.	0.9	51
79	Modulation of the stress response during apoptosis and necrosis induction in cadmium-treated U-937 human promonocytic cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2001, 1538, 38-46.	1.9	28
80	The role of intracellular oxidation in death induction (apoptosis and necrosis) in human promonocytic cells treated with stress inducers (cadmium, heat, X-rays). European Journal of Cell Biology, 2001, 80, 312-320.	1.6	114
81	Heterologous Expression of the Transcriptional Regulator Escargot Inhibits Megakaryocytic Endomitosis. Journal of Biological Chemistry, 2001, 276, 43413-43418.	1.6	8
82	Uncoupling of apoptosis and Jun/AP-1 activity in human promonocytic cells treated with DNA-damaging and stress-inducing agents. European Journal of Cell Biology, 2000, 79, 1-9.	1.6	19
83	Stimulation of p38 Mitogen-activated Protein Kinase Is an Early Regulatory Event for the Cadmium-induced Apoptosis in Human Promonocytic Cells. Journal of Biological Chemistry, 2000, 275, 11418-11424.	1.6	166
84	Regulation of Multidrug Resistance 1 (MDR1)/P-glycoprotein Gene Expression and Activity by Heat-Shock Transcription Factor 1 (HSF1). Journal of Biological Chemistry, 2000, 275, 24970-24976.	1.6	113
85	Modulation of tolerance by mutant heat shock transcription factors. Cell Stress and Chaperones, 1999, 4, 8.	1.2	34
86	Transcriptional Activation of Heat Shock Factor HSF1 Probed by Phosphopeptide Analysis of Factor 32P-labeled in Vivo. Journal of Biological Chemistry, 1998, 273, 8749-8755.	1.6	46
87	Modulation of Heat-Shock Protein 70 (HSP70) Gene Expression by Sodium Butyrate in U-937 Promonocytic Cells: Relationships with Differentiation and Apoptosis. Experimental Cell Research, 1997, 236, 268-274.	1.2	44
88	Modulation of HSP70 and HSP27 gene expression by the differentiation inducer sodium butyrate in U-937 human promonocytic leukemia cells. Leukemia Research, 1995, 19, 713-718.	0.4	12
89	Caffeine attenuates the action of amsacrine and etoposide in U-937 cells by mechanisms which involve inhibition of RNA synthesis. International Journal of Cancer, 1994, 57, 889-893.	2.3	8
90	Differential Modulation of the Expression of the Intermediate Filament Proteins Vimentin and Nuclear Lamins A and C by Differentiation Inducers in Human Myeloid Leukemia (U-937, HL-60) Cells. Experimental Cell Research, 1993, 208, 115-120.	1.2	18

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91	Spatial arrangement of mesenchymal stem cells regulates their immunomodulatory properties on macrophages. Bone Abstracts, 0, , .	0.0	0
92	1,25-Dihydroxyvitamin D3 modulates the cross-talk between mesenchymal stem cells and macrophages. Bone Abstracts, 0, , .	0.0	0