

Andrés J García-a

List of Publications by Year in descending order

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Version: 2024-02-01

150
papers

10,690
citations

28190

55
h-index

35952

97
g-index

162
all docs

162
docs citations

162
times ranked

13807
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomaterial-based antimicrobial therapies for the treatment of bacterial infections. <i>Nature Reviews Materials</i> , 2022, 7, 39-54.	23.3	184
2	Engineering ¹² Cell Replacement Therapies for Type 1 Diabetes: Biomaterial Advances and Considerations for Macroscale Constructs. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2022, 17, 485-513.	9.6	7
3	Surveillance-to-Diagnostic Testing Program for Asymptomatic SARS-CoV-2 Infections on a Large, Urban Campus in Fall 2020. <i>Epidemiology</i> , 2022, 33, 209-216.	1.2	13
4	Bacteriophage-Loaded Poly(lactic-co-glycolic acid) Microparticles Mitigate <i>Staphylococcus aureus</i> Infection and Cocultures of <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> . <i>Advanced Healthcare Materials</i> , 2022, 11, e2102539.	3.9	8
5	The intersection of fracture healing and infection: Orthopaedics research society workshop 2021. <i>Journal of Orthopaedic Research</i> , 2022, 40, 541-552.	1.2	8
6	Synthetic Matrix Scaffolds Engineer the In Vivo Tumor Immune Microenvironment for Immunotherapy Screening. <i>Advanced Materials</i> , 2022, 34, e2108084.	11.1	13
7	Bob Nerem's The Rules of Life. <i>Regenerative Engineering and Translational Medicine</i> , 2022, 8, 504-505.	1.6	1
8	Analyzing immune response to engineered hydrogels by hierarchical clustering of inflammatory cell subsets. <i>Science Advances</i> , 2022, 8, eabd8056.	4.7	15
9	Hydrolytically Degradable Microgels with Tunable Mechanical Properties Modulate the Host Immune Response. <i>Small</i> , 2022, 18, e2106896.	5.2	14
10	Synthetic hydrogels engineered to promote collecting lymphatic vessel sprouting. <i>Biomaterials</i> , 2022, 284, 121483.	5.7	9
11	FasL microgels induce immune acceptance of islet allografts in nonhuman primates. <i>Science Advances</i> , 2022, 8, eabm9881.	4.7	32
12	Host type 2 immune response to xenogeneic serum components impairs biomaterial-directed osteo-regenerative therapies. <i>Biomaterials</i> , 2022, 286, 121601.	5.7	4
13	A hydrogel platform for co-delivery of immunomodulatory proteins for pancreatic islet allografts. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 1728-1737.	2.1	6
14	Biomaterial strategies for improved intra-articular drug delivery. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 426-436.	2.1	30
15	Toll-like receptor 2-modulating pectin-polymers in alginate-based microcapsules attenuate immune responses and support islet-xenograft survival. <i>Biomaterials</i> , 2021, 266, 120460.	5.7	34
16	JAGGED1 stimulates cranial neural crest cell osteoblast commitment pathways and bone regeneration independent of canonical NOTCH signaling. <i>Bone</i> , 2021, 143, 115657.	1.4	7
17	Localized hydrogel delivery of dendritic cells for attenuation of multiple sclerosis in a murine model. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 1247-1255.	2.1	11
18	Dual delivery of IL-10 and AT-RvD1 from PEG hydrogels polarize immune cells towards pro-regenerative phenotypes. <i>Biomaterials</i> , 2021, 268, 120475.	5.7	27

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19	Microfluidics generation of chitosan microgels containing glycerylphosphate crosslinker for in situ human mesenchymal stem cells encapsulation. <i>Materials Science and Engineering C</i> , 2021, 120, 111716.	3.8	18
20	Macrophage phenotypes in tissue repair and the foreign body response: Implications for biomaterial-based regenerative medicine strategies. <i>Acta Biomaterialia</i> , 2021, 133, 4-16.	4.1	146
21	Force-FAK signaling coupling at individual focal adhesions coordinates mechanosensing and microtissue repair. <i>Nature Communications</i> , 2021, 12, 2359.	5.8	27
22	Triple growth factor delivery promotes functional bone regeneration following composite musculoskeletal trauma. <i>Acta Biomaterialia</i> , 2021, 127, 180-192.	4.1	25
23	A Hydrogel Strategy to Augment Tissue Adenosine to Improve Hindlimb Perfusion. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, e314-e324.	1.1	3
24	Optoregulated force application to cellular receptors using molecular motors. <i>Nature Communications</i> , 2021, 12, 3580.	5.8	19
25	High-throughput on-chip human mesenchymal stromal cell potency prediction. <i>Advanced Healthcare Materials</i> , 2021, , 2101995.	3.9	4
26	Bacteriophage delivering hydrogels reduce biofilm formation in vitro and infection in vivo. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 39-49.	2.1	59
27	Brief exposure to hyperglycemia activates dendritic cells in vitro and in vivo. <i>Journal of Cellular Physiology</i> , 2020, 235, 5120-5129.	2.0	7
28	Integrin-specific hydrogels modulate transplanted human bone marrow-derived mesenchymal stem cell survival, engraftment, and reparative activities. <i>Nature Communications</i> , 2020, 11, 114.	5.8	131
29	The Extracellular Matrix and Cell-Biomaterial Interactions. , 2020, , 701-715.		6
30	Articular Cartilage- and Synovocyte-Binding Poly(ethylene glycol) Nanocomposite Microgels as Intra-Articular Drug Delivery Vehicles for the Treatment of Osteoarthritis. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5084-5095.	2.6	29
31	Immunotherapy via PD-L1-presenting biomaterials leads to long-term islet graft survival. <i>Science Advances</i> , 2020, 6, eaba5573.	4.7	54
32	A blueprint for academic laboratories to produce SARS-CoV-2 quantitative RT-PCR test kits. <i>Journal of Biological Chemistry</i> , 2020, 295, 15438-15453.	1.6	31
33	Material-driven fibronectin assembly rescues matrix defects due to mutations in collagen IV in fibroblasts. <i>Biomaterials</i> , 2020, 252, 120090.	5.7	9
34	Generation of small intestinal organoids for experimental intestinal physiology. <i>Methods in Cell Biology</i> , 2020, 159, 143-174.	0.5	18
35	Robert M. Nerem – International expert on mechanobiology, cellular engineering, tissue engineering and regenerative medicine. <i>Regenerative Therapy</i> , 2020, 15, 34.	1.4	0
36	Desmocollin-2 promotes intestinal mucosal repair by controlling integrin-dependent cell adhesion and migration. <i>Molecular Biology of the Cell</i> , 2020, 31, 407-418.	0.9	26

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37	Functionalization of Alginate with Extracellular Matrix Peptides Enhances Viability and Function of Encapsulated Porcine Islets. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000102.	3.9	15
38	Engineered Biomaterials for Enhanced Function of Insulin-Secreting Cell Organoids. <i>Advanced Functional Materials</i> , 2020, 30, 2000134.	7.8	16
39	Hydrodynamic shear-based purification of cancer cells with enhanced tumorigenic potential. <i>Integrative Biology (United Kingdom)</i> , 2020, 12, 1-11.	0.6	0
40	Resolvin E1 is a pro-repair molecule that promotes intestinal epithelial wound healing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9477-9482.	3.3	56
41	Localized Immunomodulation with PD-L1 Results in Sustained Survival and Function of Allogeneic Islets without Chronic Immunosuppression. <i>Journal of Immunology</i> , 2020, 204, 2840-2851.	0.4	26
42	IFN- γ -tethered hydrogels enhance mesenchymal stem cell-based immunomodulation and promote tissue repair. <i>Biomaterials</i> , 2019, 220, 119403.	5.7	66
43	Synthetic hydrogels identify matrix physicochemical properties required for renal epithelial cell tubulogenesis. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	12
44	Microfluidic platform for studying osteocyte mechanoregulation of breast cancer bone metastasis. <i>Integrative Biology (United Kingdom)</i> , 2019, 11, 119-129.	0.6	61
45	Co-delivery of Wnt7a and muscle stem cells using synthetic bioadhesive hydrogel enhances murine muscle regeneration and cell migration during engraftment. <i>Acta Biomaterialia</i> , 2019, 94, 243-252.	4.1	36
46	Enabling mesenchymal stromal cell immunomodulatory analysis using scalable platforms. <i>Integrative Biology (United Kingdom)</i> , 2019, 11, 154-162.	0.6	3
47	Linkage Groups within Thiol-ene Photoclickable PEG Hydrogels Control In Vivo Stability. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900371.	3.9	21
48	Lysostaphin and BMP-2 co-delivery reduces <i>S. aureus</i> infection and regenerates critical-sized segmental bone defects. <i>Science Advances</i> , 2019, 5, eaaw1228.	4.7	70
49	Heparin/Collagen Coatings Improve Human Mesenchymal Stromal Cell Response to Interferon Gamma. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 2793-2803.	2.6	19
50	TNF α promotes mucosal wound repair through enhanced platelet activating factor receptor signaling in the epithelium. <i>Mucosal Immunology</i> , 2019, 12, 909-918.	2.7	34
51	Engineered materials to model human intestinal development and cancer using organoids. <i>Experimental Cell Research</i> , 2019, 377, 109-114.	1.2	19
52	Engineering hydrogels with affinity-bound laminin as 3D neural stem cell culture systems. <i>Biomaterials Science</i> , 2019, 7, 5338-5349.	2.6	35
53	Localized immune tolerance from FasL-functionalized PLC scaffolds. <i>Biomaterials</i> , 2019, 192, 271-281.	5.7	30
54	Nonadhesive Alginate Hydrogels Support Growth of Pluripotent Stem Cell-Derived Intestinal Organoids. <i>Stem Cell Reports</i> , 2019, 12, 381-394.	2.3	160

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55	Implantable antimicrobial biomaterials for local drug delivery in bone infection models. <i>Acta Biomaterialia</i> , 2019, 93, 2-11.	4.1	89
56	Synthetic poly(ethylene glycol)-based microfluidic islet encapsulation reduces graft volume for delivery to highly vascularized and retrievable transplant site. <i>American Journal of Transplantation</i> , 2019, 19, 1315-1327.	2.6	48
57	An affinity-based approach to engineer laminin-presenting cell instructive microenvironments. <i>Biomaterials</i> , 2019, 192, 601-611.	5.7	12
58	Receptor control in mesenchymal stem cell engineering. <i>Nature Reviews Materials</i> , 2018, 3, .	23.3	96
59	Parallel droplet microfluidics for high throughput cell encapsulation and synthetic microgel generation. <i>Microsystems and Nanoengineering</i> , 2018, 4, .	3.4	110
60	PEG hydrogel containing calcium-releasing particles and mesenchymal stromal cells promote vessel maturation. <i>Acta Biomaterialia</i> , 2018, 67, 53-65.	4.1	19
61	Adenosine Production by Biomaterial-Supported Mesenchymal Stromal Cells Reduces the Innate Inflammatory Response in Myocardial Ischemia/Reperfusion Injury. <i>Journal of the American Heart Association</i> , 2018, 7, .	1.6	48
62	Design of a vascularized synthetic poly(ethylene glycol) macroencapsulation device for islet transplantation. <i>Biomaterials</i> , 2018, 172, 54-65.	5.7	94
63	Controlled JAGGED1 delivery induces human embryonic palate mesenchymal cells to form osteoblasts. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 552-560.	2.1	13
64	Inhibition of Bacterial Adhesion on Nanotextured Stainless Steel 316L by Electrochemical Etching. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 90-97.	2.6	86
65	Evaluation of Hydrogels Presenting Extracellular Matrix-Derived Adhesion Peptides and Encapsulating Cardiac Progenitor Cells for Cardiac Repair. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 200-210.	2.6	28
66	A rapid method for determining protein diffusion through hydrogels for regenerative medicine applications. <i>APL Bioengineering</i> , 2018, 2, 026110.	3.3	50
67	Inhibition of TBK1/IKK μ Promotes Regeneration of Pancreatic β -cells. <i>Scientific Reports</i> , 2018, 8, 15587.	1.6	24
68	PEG-4MAL hydrogels for human organoid generation, culture, and in vivo delivery. <i>Nature Protocols</i> , 2018, 13, 2102-2119.	5.5	113
69	Bacteria-Based Materials for Stem Cell Engineering. <i>Advanced Materials</i> , 2018, 30, e1804310.	11.1	52
70	Hydrogel delivery of lysostaphin eliminates orthopedic implant infection by <i>Staphylococcus aureus</i> and supports fracture healing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4960-E4969.	3.3	138
71	Inhaled bacteriophage-loaded polymeric microparticles ameliorate acute lung infections. <i>Nature Biomedical Engineering</i> , 2018, 2, 841-849.	11.6	68
72	Minimally Invasive Delivery of Hydrogel-Encapsulated Amiodarone to the Epicardium Reduces Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e006408.	2.1	17

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73	Synthetic matrix enhances transplanted satellite cell engraftment in dystrophic and aged skeletal muscle with comorbid trauma. <i>Science Advances</i> , 2018, 4, eaar4008.	4.7	51
74	Local immunomodulation with Fas ligand-engineered biomaterials achieves allogeneic islet graft acceptance. <i>Nature Materials</i> , 2018, 17, 732-739.	13.3	124
75	Evaluation of encapsulating and microporous nondegradable hydrogel scaffold designs on islet engraftment in rodent models of diabetes. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2356-2364.	1.7	19
76	Synthetic hydrogels mimicking basement membrane matrices to promote cell-matrix interactions. <i>Matrix Biology</i> , 2017, 57-58, 324-333.	1.5	99
77	Engineered matrices for skeletal muscle satellite cell engraftment and function. <i>Matrix Biology</i> , 2017, 60-61, 96-109.	1.5	30
78	Tuning cell adhesive properties via layer-by-layer assembly of chitosan and alginate. <i>Acta Biomaterialia</i> , 2017, 51, 279-293.	4.1	62
79	Engineered microenvironments for synergistic VEGF α Integrin signalling during vascularization. <i>Biomaterials</i> , 2017, 126, 61-74.	5.7	61
80	Matrix Mechanosensing: From Scaling Concepts in α Omics Data to Mechanisms in the Nucleus, Regeneration, and Cancer. <i>Annual Review of Biophysics</i> , 2017, 46, 295-315.	4.5	89
81	Bio-synthetic materials for immunomodulation of islet transplants. <i>Advanced Drug Delivery Reviews</i> , 2017, 114, 266-271.	6.6	25
82	Vasculogenic hydrogel enhances islet survival, engraftment, and function in leading extrahepatic sites. <i>Science Advances</i> , 2017, 3, e1700184.	4.7	130
83	A Minimally Invasive, Translational Method to Deliver Hydrogels to the Heart Through the Pericardial Space. <i>JACC Basic To Translational Science</i> , 2017, 2, 601-609.	1.9	26
84	Synthetic hydrogels for human intestinal organoid generation and colonic wound repair. <i>Nature Cell Biology</i> , 2017, 19, 1326-1335.	4.6	401
85	Peptide-functionalized poly[oligo(ethylene glycol) methacrylate] brushes on dopamine-coated stainless steel for controlled cell adhesion. <i>Acta Biomaterialia</i> , 2017, 59, 108-116.	4.1	37
86	Protease-degradable microgels for protein delivery for vascularization. <i>Biomaterials</i> , 2017, 113, 170-175.	5.7	72
87	Effects of substrate stiffness and actomyosin contractility on coupling between force transmission and vinculin α Paxillin recruitment at single focal adhesions. <i>Molecular Biology of the Cell</i> , 2017, 28, 1901-1911.	0.9	74
88	Biofunctional hydrogels for skeletal muscle constructs. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, 967-976.	1.3	40
89	Synthesis of self-assembled IL-1Ra α presenting nanoparticles for the treatment of osteoarthritis. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 595-599.	2.1	27
90	Integrin α specific hydrogels functionalized with VEGF for vascularization and bone regeneration of critical α size bone defects. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 889-900.	2.1	96

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91	Tobacco Mosaic Virus Functionalized Alginate Hydrogel Scaffolds for Bone Regeneration in Rats with Cranial Defect. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 606-615.	2.6	34
92	Methods for Generating Hydrogel Particles for Protein Delivery. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1946-1958.	1.3	54
93	Material-driven fibronectin assembly for high-efficiency presentation of growth factors. <i>Science Advances</i> , 2016, 2, e1600188.	4.7	104
94	Biomaterial-mediated strategies targeting vascularization for bone repair. <i>Drug Delivery and Translational Research</i> , 2016, 6, 77-95.	3.0	72
95	Vinculin regulates directionality and cell polarity in two- and three-dimensional matrix and three-dimensional microtrack migration. <i>Molecular Biology of the Cell</i> , 2016, 27, 1431-1441.	0.9	55
96	Tumor-Initiating Cells: Emerging Biophysical Methods of Isolation. <i>Current Stem Cell Reports</i> , 2016, 2, 21-32.	0.7	5
97	Synthetic matrices reveal contributions of ECM biophysical and biochemical properties to epithelial morphogenesis. <i>Journal of Cell Biology</i> , 2016, 212, 113-124.	2.3	100
98	Phototriggered fibril-like environments arbitrate cell escapes and migration from endothelial monolayers. <i>Biomaterials</i> , 2016, 82, 113-123.	5.7	19
99	Human mesenchymal stem cell behavior on segmented polyurethanes prepared with biologically active chain extenders. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 38.	1.7	8
100	Protease-degradable PEG-maleimide coating with on-demand release of IL-1Ra to improve tissue response to neural electrodes. <i>Biomaterials</i> , 2015, 44, 55-70.	5.7	55
101	Vinculin-dependent actin bundling regulates cell migration and traction forces. <i>Biochemical Journal</i> , 2015, 465, 383-393.	1.7	43
102	Simple coating with fibronectin fragment enhances stainless steel screw osseointegration in healthy and osteoporotic rats. <i>Biomaterials</i> , 2015, 63, 137-145.	5.7	91
103	Intramyocardial Delivery of Notch Ligand-Containing Hydrogels Improves Cardiac Function and Angiogenesis Following Infarction. <i>Tissue Engineering - Part A</i> , 2015, 21, 2315-2322.	1.6	52
104	Synchronized cell attachment triggered by photo-activatable adhesive ligands allows QCM-based detection of early integrin binding. <i>Scientific Reports</i> , 2015, 5, 9533.	1.6	26
105	Hic-5 Mediates TGF β -Induced Adhesion in Vascular Smooth Muscle Cells by a Nox4-Dependent Mechanism. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1198-1206.	1.1	17
106	Biomaterial strategies for engineering implants for enhanced osseointegration and bone repair. <i>Advanced Drug Delivery Reviews</i> , 2015, 94, 53-62.	6.6	561
107	Light-triggered in vivo activation of adhesive peptides regulates cell adhesion, inflammation and vascularization of biomaterials. <i>Nature Materials</i> , 2015, 14, 352-360.	13.3	365
108	Contributions of the integrin β 1 tail to cell adhesive forces. <i>Experimental Cell Research</i> , 2015, 332, 212-222.	1.2	11

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109	Engineered VEGF-releasing PEG-MAL hydrogel for pancreatic islet vascularization. <i>Drug Delivery and Translational Research</i> , 2015, 5, 125-136.	3.0	96
110	Endothelial retention and phenotype on carbonized cardiovascular implant surfaces. <i>Biomaterials</i> , 2014, 35, 7714-7723.	5.7	21
111	The effect of conditional inactivation of beta 1 integrins using twist 2 Cre, Osterix Cre and osteocalcin Cre lines on skeletal phenotype. <i>Bone</i> , 2014, 68, 131-141.	1.4	40
112	Nanoengineered Particles for Enhanced Intra-Articular Retention and Delivery of Proteins. <i>Advanced Healthcare Materials</i> , 2014, 3, 1562-1567.	3.9	55
113	PEG-Maleimide Hydrogels for Protein and Cell Delivery in Regenerative Medicine. <i>Annals of Biomedical Engineering</i> , 2014, 42, 312-322.	1.3	50
114	Sensing rigidity. <i>Nature Materials</i> , 2014, 13, 539-540.	13.3	28
115	High Fidelity Nanopatterning of Proteins onto Well-Defined Surfaces Through Subtractive Contact Printing. <i>Methods in Cell Biology</i> , 2014, 119, 277-292.	0.5	2
116	Drug Delivery: Nanoengineered Particles for Enhanced Intra-Articular Retention and Delivery of Proteins (<i>Adv. Healthcare Mater.</i> 10/2014). <i>Advanced Healthcare Materials</i> , 2014, 3, 1561-1561.	3.9	1
117	Microfluidic-Based Generation of Size-Controlled, Biofunctionalized Synthetic Polymer Microgels for Cell Encapsulation. <i>Advanced Materials</i> , 2014, 26, 3003-3008.	11.1	174
118	Near-infrared fluorescence imaging as an alternative to bioluminescent bacteria to monitor biomaterial-associated infections. <i>Acta Biomaterialia</i> , 2014, 10, 2935-2944.	4.1	17
119	The modulation of cardiac progenitor cell function by hydrogel-dependent Notch1 activation. <i>Biomaterials</i> , 2014, 35, 8103-8112.	5.7	49
120	Bone regeneration using an alpha 2 beta 1 integrin-specific hydrogel as a BMP-2 delivery vehicle. <i>Biomaterials</i> , 2014, 35, 5453-5461.	5.7	156
121	Cellular Encapsulation Enhances Cardiac Repair. <i>Journal of the American Heart Association</i> , 2013, 2, e000367.	1.6	140
122	How vinculin regulates force transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9788-9793.	3.3	209
123	Vasculogenic bio-synthetic hydrogel for enhancement of pancreatic islet engraftment and function in type 1 diabetes. <i>Biomaterials</i> , 2013, 34, 4602-4611.	5.7	142
124	Photo-Activatable Surfaces for Cell Migration Assays. <i>Advanced Functional Materials</i> , 2013, 23, 5974-5980.	7.8	55
125	Photoactive Biomaterials: Photo-Activatable Surfaces for Cell Migration Assays (<i>Adv. Funct. Mater.</i>) Tj ETQq1 1 0.784314 rgBT /Overl	7.8	50
126	CIMA® monolithic anion-exchange chromatography as a useful alternative to CsCl gradient purification of bacteriophage particles. <i>Virology</i> , 2012, 434, 265-270.	1.1	65

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127	Self-assembling nanoparticles for intra-articular delivery of anti-inflammatory proteins. <i>Biomaterials</i> , 2012, 33, 7665-7675.	5.7	113
128	Maleimide Cross-Linked Bioactive PEG Hydrogel Exhibits Improved Reaction Kinetics and Cross-Linking for Cell Encapsulation and In Situ Delivery. <i>Advanced Materials</i> , 2012, 24, 64-70.	11.1	458
129	Bioactive Hydrogels: Maleimide Cross-Linked Bioactive PEG Hydrogel Exhibits Improved Reaction Kinetics and Cross-Linking for Cell Encapsulation and In Situ Delivery (<i>Adv. Mater.</i> 1/2012). <i>Advanced Materials</i> , 2012, 24, 2-2.	11.1	6
130	Effects of protein dose and delivery system on BMP-mediated bone regeneration. <i>Biomaterials</i> , 2011, 32, 5241-5251.	5.7	281
131	Dynamic culture substrate that captures a specific extracellular matrix protein in response to light. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 044608.	2.8	19
132	Coating of biomaterial scaffolds with the collagen-mimetic peptide GFOGER for bone defect repair. <i>Biomaterials</i> , 2010, 31, 2574-2582.	5.7	222
133	Focal adhesion kinase-dependent regulation of adhesive forces involves vinculin recruitment to focal adhesions. <i>Biology of the Cell</i> , 2010, 102, 203-213.	0.7	44
134	Bioartificial matrices for therapeutic vascularization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3323-3328.	3.3	251
135	Simple application of fibronectin-mimetic coating enhances osseointegration of titanium implants. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 2602-2612.	1.6	70
136	Update on therapeutic vascularization strategies. <i>Regenerative Medicine</i> , 2009, 4, 65-80.	0.8	125
137	Bone Cells Grown on Micropatterned Surfaces are More Sensitive to Fluid Shear Stress. <i>Cellular and Molecular Bioengineering</i> , 2008, 1, 182-188.	1.0	13
138	Reduced acute inflammatory responses to microgel conformal coatings. <i>Biomaterials</i> , 2008, 29, 4605-4615.	5.7	114
139	Biomolecular surface coating to enhance orthopaedic tissue healing and integration. <i>Biomaterials</i> , 2007, 28, 3228-3235.	5.7	228
140	Get a grip: integrins in cell-biomaterial interactions. <i>Biomaterials</i> , 2005, 26, 7525-7529.	5.7	292
141	Cell Adhesion Strengthening: Contributions of Adhesive Area, Integrin Binding, and Focal Adhesion Assembly. <i>Molecular Biology of the Cell</i> , 2005, 16, 4329-4340.	0.9	373
142	Integrin-specific collagen-mimetic surfaces supporting osteoblastic differentiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2004, 69A, 591-600.	2.1	136
143	Stick and Grip: Measurement Systems and Quantitative Analyses of Integrin-Mediated Cell Adhesion Strength. <i>Cell Biochemistry and Biophysics</i> , 2003, 39, 61-74.	0.9	86
144	Addressing cell-sourcing limitations with gene therapy - Genetic engineering with runx2/cbfa1 for an alternative to biological grafts. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2003, 22, 65-70.	1.1	1

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145	Engineering integrin-specific surfaces with a triple-helical collagen-mimetic peptide. Journal of Biomedical Materials Research - Part A, 2003, 65A, 511-523.	2.1	164
146	Fibronectin Adsorption and Cell Adhesion to Mixed Monolayers of Tri(ethylene glycol)- and Methyl-Terminated Alkanethiols. Langmuir, 2003, 19, 1847-1852.	1.6	74
147	Micropatterned Surfaces to Engineer Focal Adhesions for Analysis of Cell Adhesion Strengthening. Langmuir, 2002, 18, 5579-5584.	1.6	93
148	Biomimetic Surfaces for Control of Cell Adhesion to Facilitate Bone Formation. Critical Reviews in Eukaryotic Gene Expression, 2002, 12, 151-162.	0.4	58
149	Quantification of cell adhesion using a spinning disc device and application to surface-reactive materials. Biomaterials, 1997, 18, 1091-1098.	5.7	192
150	Capsules of Chitosan a tailor drug delivery system with controlled release for specific organs. , 0, , .		0