Tatiana Segura

List of Publications by Year
in descending order

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106 papers	9,419 citations	46918 47 h-index	39575 94 g-index
117 all docs	117 docs citations	117 times ranked	11386 citing authors

#	Article	IF	Citations
1	Nucleic Acid Delivery from Granular Hydrogels. Advanced Healthcare Materials, 2022, 11, e2101867.	3.9	15
2	Particle Hydrogels Decrease Cerebral Atrophy and Attenuate Astrocyte and Microglia/Macrophage Reactivity after Stroke. Advanced Therapeutics, 2022, 5, .	1.6	12
3	Stoichiometric Postâ€Modification of Hydrogel Microparticles Dictates Neural Stem Cell Fate in Microporous Annealed Particle Scaffolds. Advanced Materials, 2022, 34, .	11.1	19
4	Activating an adaptive immune response from a hydrogel scaffold imparts regenerative wound healing. Nature Materials, 2021, 20, 560-569.	13.3	260
5	Wound healing with topical BRAF inhibitor therapy in a diabetic model suggests tissue regenerative effects. PLoS ONE, 2021, 16, e0252597.	1.1	4
6	Point-of-care antimicrobial coating protects orthopaedic implants from bacterial challenge. Nature Communications, 2021, 12, 5473.	5.8	40
7	Injectable biomaterial shuttles for cell therapy in stroke. Brain Research Bulletin, 2021, 176, 25-42.	1.4	7
8	Hydrogel microparticles for biomedical applications. Nature Reviews Materials, 2020, 5, 20-43.	23.3	646
9	The Use of a Novel Antimicrobial Implant Coating In Vivo to Prevent Spinal Implant Infection. Spine, 2020, 45, E305-E311.	1.0	13
10	Rapid Fabrication of Membrane-Integrated Thermoplastic Elastomer Microfluidic Devices. Micromachines, 2020, 11, 731.	1.4	9
11	Injectable Biomaterials for Treatment of Glioblastoma. Advanced Materials Interfaces, 2020, 7, 2001055.	1.9	4
12	Biomaterials-Mediated Regulation of Macrophage Cell Fate. Frontiers in Bioengineering and Biotechnology, 2020, 8, 609297.	2.0	44
13	Click by Click Microporous Annealed Particle (MAP) Scaffolds. Advanced Healthcare Materials, 2020, 9, e1901391.	3.9	58
14	Materials to promote recovery after stroke. Current Opinion in Biomedical Engineering, 2020, 14, 9-17.	1.8	7
15	Injection of Hydrogel Biomaterial Scaffolds to The Brain After Stroke. Journal of Visualized Experiments, 2020, , .	0.2	0
16	Injection of Hydrogel Biomaterial Scaffolds to The Brain After Stroke. Journal of Visualized Experiments, 2020, , .	0.2	4
17	Enhanced In Vivo Delivery of Stem Cells using Microporous Annealed Particle Scaffolds. Small, 2019, 15, e1903147.	5.2	71
18	Microporous annealed particle hydrogel stiffness, void space size, and adhesion properties impact cell proliferation, cell spreading, and gene transfer. Acta Biomaterialia, 2019, 94, 160-172.	4.1	94

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19	Citrullination of fibronectin alters integrin clustering and focal adhesion stability promoting stromal cell invasion. Matrix Biology, 2019, 82, 86-104.	1.5	35
20	Surface- and Hydrogel-Mediated Delivery of Nucleic Acid Nanoparticles. Methods in Molecular Biology, 2019, 1943, 177-197.	0.4	2
21	Granular hydrogels: emergent properties of jammed hydrogel microparticles and their applications in tissue repair and regeneration. Current Opinion in Biotechnology, 2019, 60, 1-8.	3.3	154
22	Pathways Governing Polyethylenimine Polyplex Transfection in Microporous Annealed Particle Scaffolds. Bioconjugate Chemistry, 2019, 30, 476-486.	1.8	22
23	Subvoxel light-sheet microscopy for high-resolution high-throughput volumetric imaging of large biomedical specimens. Advanced Photonics, 2019, 1, 1.	6.2	37
24	Sustained Transgene Expression via Hydrogel-Mediated Gene Transfer Results from Multiple Transfection Events. ACS Biomaterials Science and Engineering, 2018, 4, 981-987.	2.6	10
25	In situ forming injectable hydrogels for drug delivery and wound repair. Advanced Drug Delivery Reviews, 2018, 127, 167-184.	6.6	547
26	Hyaluronic acid hydrogel scaffolds loaded with cationic niosomes for efficient non-viral gene delivery. RSC Advances, 2018, 8, 31934-31942.	1.7	29
27	Pro-Angiogenic Regenerative Therapies for the Damaged Brain: A Tissue Engineering Approach. Biological and Medical Physics Series, 2018, , 177-187.	0.3	0
28	Injectable and Spatially Patterned Microporous Annealed Particle (MAP) Hydrogels for Tissue Repair Applications. Advanced Science, 2018, 5, 1801046.	5.6	56
29	Dual-function injectable angiogenic biomaterial for the repair of brain tissue following stroke. Nature Materials, 2018, 17, 642-651.	13.3	235
30	Accelerated wound healing by injectable star poly(ethylene glycol)-b-poly(propylene sulfide) scaffolds loaded with poorly water-soluble drugs. Journal of Controlled Release, 2018, 282, 156-165.	4.8	36
31	Itâ€™s All in the Delivery: Designing Hydrogels for Cell and Non-viral Gene Therapies. Molecular Therapy, 2018, 26, 2087-2106.	3.7	68
32	High-throughput holographic monitoring of nanoparticle degradation for drug delivery applications. , 2018, , .		0
33	Directing three-dimensional multicellular morphogenesis by self-organization of vascular mesenchymal cells in hyaluronic acid hydrogels. Journal of Biological Engineering, 2017, 11, 12.	2.0	16
34	High-Throughput Quantification of Nanoparticle Degradation Using Computational Microscopy and Its Application to Drug Delivery Nanocapsules. ACS Photonics, 2017, 4, 1216-1224.	3.2	17
35	Engineered HA hydrogel for stem cell transplantation in the brain: Biocompatibility data using a design of experiment approach. Data in Brief, 2017, 10, 202-209.	0.5	37
36	Hydrogels with precisely controlled integrin activation dictate vascular patterning andÂpermeability. Nature Materials, 2017, 16, 953-961.	13.3	158

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37	â€œSmartâ€•Polymer Coating Prevents Spinal Implant Infection in a Mouse Model of Spine Surgery. Spine Journal, 2017, 17, S168.	0.6	1
38	Injection of Microporous Annealing Particle (MAP) Hydrogels in the Stroke Cavity Reduces Gliosis and Inflammation and Promotes NPC Migration to the Lesion. Advanced Materials, 2017, 29, 1606471.	11.1	182
39	Integrating light-sheet imaging with virtual reality to recapitulate developmental cardiac mechanics. JCI Insight, 2017, 2, .	2.3	24
40	Hydrogels for brain repair after stroke: an emerging treatment option. Current Opinion in Biotechnology, 2016, 40, 155-163.	3.3	96
41	An intracellular protein delivery platform based on glutathione-responsive protein nanocapsules. Chemical Communications, 2016, 52, 13608-13611.	2.2	15
42	Systematic optimization of an engineered hydrogel allows for selective control of human neural stem cell survival and differentiation after transplantation in the stroke brain. Biomaterials, 2016, 105, 145-155.	5.7	184
43	Three dimensional tubular structure self-assembled by vascular mesenchymal cells at stiffness interfaces of hydrogels. Biomedicine and Pharmacotherapy, 2016, 83, 1203-1211.	2.5	13
44	Particle Hydrogels Based on Hyaluronic Acid Building Blocks. ACS Biomaterials Science and Engineering, 2016, 2, 2034-2041.	2.6	112
45	In Vivo Efficacy of a â€œSmartâ€•Antimicrobial Implant Coating. Journal of Bone and Joint Surgery - Series A, 2016, 98, 1183-1189.	1.4	42
46	Cutaneous wound healing through paradoxical MAPK activation by BRAF inhibitors. Nature Communications, 2016, 7, 12348.	5.8	52
47	Cell-Demanded VEGF Release via Nanocapsules Elicits Different Receptor Activation Dynamics and Enhanced Angiogenesis. Annals of Biomedical Engineering, 2016, 44, 1983-1992.	1.3	8
48	Controlling the kinetics of thiol-maleimide Michael-type addition gelation kinetics for the generation of homogenous poly(ethylene glycol) hydrogels. Biomaterials, 2016, 101, 199-206.	5.7	92
49	Getting there is half the battle: recent advances in delivering therapeutics. Integrative Biology (United) Tj ETQq1 1 0.784314 rgBT /Ov	0.6	8
50	Accelerated wound healing by injectable microporous gel scaffolds assembled fromÂannealed building blocks. Nature Materials, 2015, 14, 737-744.	13.3	698
51	Imine Hydrogels with Tunable Degradability for Tissue Engineering. Biomacromolecules, 2015, 16, 2101-2108.	2.6	112
52	Enzymeâ€Responsive Delivery of Multiple Proteins with Spatiotemporal Control. Advanced Materials, 2015, 27, 3620-3625.	11.1	73
53	Porous Hyaluronic Acid Hydrogels for Localized Nonviral DNA Delivery in a Diabetic Wound Healing Model. Advanced Healthcare Materials, 2015, 4, 1084-1091.	3.9	101
54	Encapsulation of PEGylated low-molecular-weight PEI polyplexes in hyaluronic acid hydrogels reduces aggregation. Acta Biomaterialia, 2015, 28, 45-54.	4.1	30

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55	Systematic evaluation of natural scaffolds in cutaneous wound healing. Journal of Materials Chemistry B, 2015, 3, 7986-7992.	2.9	36
56	Hydrogel Design of Experiments Methodology to Optimize Hydrogel for iPSCâ€NPC Culture. Advanced Healthcare Materials, 2015, 4, 534-539.	3.9	93
57	Hybrid Photopatterned Enzymatic Reaction (HyPER) for in Situ Cell Manipulation. ChemBioChem, 2014, 15, 233-242.	1.3	26
58	Chemical sintering generates uniform porous hyaluronic acid hydrogels. Acta Biomaterialia, 2014, 10, 205-213.	4.1	13
59	Non-viral DNA delivery from porous hyaluronic acid hydrogels in mice. Biomaterials, 2014, 35, 825-835.	5.7	75
60	Hydrogel-based nanocomposites of therapeutic proteins for tissue repair. Current Opinion in Chemical Engineering, 2014, 4, 128-136.	3.8	5
61	Gold-Nanocrystal-Enhanced Bioluminescent Nanocapsules. ACS Nano, 2014, 8, 9964-9969.	7.3	19
62	Design of cellâ€“matrix interactions in hyaluronic acid hydrogel scaffolds. Acta Biomaterialia, 2014, 10, 1571-1580.	4.1	221
63	Delivery of iPSâ€NPCs to the Stroke Cavity within a Hyaluronic Acid Matrix Promotes the Differentiation of Transplanted Cells. Advanced Functional Materials, 2014, 24, 7053-7062.	7.8	147
64	The chicken chorioallantoic membrane model in biology, medicine and bioengineering. Angiogenesis, 2014, 17, 779-804.	3.7	334
65	Transfection in the third dimension. Integrative Biology (United Kingdom), 2013, 5, 1206.	0.6	13
66	Matrix-based gene delivery for tissue repair. Current Opinion in Biotechnology, 2013, 24, 855-863.	3.3	34
67	Surface- and Hydrogel-Mediated Delivery of Nucleic Acid Nanoparticles. Methods in Molecular Biology, 2013, 948, 149-169.	0.4	11
68	The modulation of MSC integrin expression by RGD presentation. Biomaterials, 2013, 34, 3938-3947.	5.7	69
69	The Influence of Different Metal-Chelators on the Biological Profile of Nanoparticles for Gallium-68 Based Molecular Imaging. Journal of Nano Research, 2012, 20, 21-31.	0.8	1
70	Biocompatible Hydrogels by Oxime Click Chemistry. Biomacromolecules, 2012, 13, 3013-3017.	2.6	198
71	Design and characterization of microporous hyaluronic acid hydrogels for in vitro gene transfer to mMSCs. Acta Biomaterialia, 2012, 8, 3921-3931.	4.1	39
72	Extracellular matrix modulates non-viral gene transfer to mouse mesenchymal stem cells. Soft Matter, 2012, 8, 1451-1459.	1.2	13

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73	Cellular Cytoskeleton Dynamics Modulates Non-Viral Gene Delivery through RhoGTPases. PLoS ONE, 2012, 7, e35046.	1.1	24
74	VEGF internalization is not required for VEGFR-2 phosphorylation in bioengineered surfaces with covalently linked VEGF. Integrative Biology (United Kingdom), 2011, 3, 887.	0.6	46
75	Utilizing Cellâ€"Matrix Interactions To Modulate Gene Transfer to Stem Cells Inside Hyaluronic Acid Hydrogels. Molecular Pharmaceutics, 2011, 8, 1582-1591.	2.3	82
76	Proteinâ^'Polymer Nanoparticles for Nonviral Gene Delivery. Biomacromolecules, 2011, 12, 1006-1014.	2.6	42
77	Hyaluronic acid and fibrin hydrogels with concentrated DNA/PEI polyplexes for local gene delivery. Journal of Controlled Release, 2011, 153, 255-261.	4.8	112
78	The effect of vascular endothelial growth factor (VEGF) presentation within fibrin matrices on endothelial cell branching. Biomaterials, 2011, 32, 7432-7443.	5.7	75
79	The spreading, migration and proliferation of mouse mesenchymal stem cells cultured inside hyaluronic acid hydrogels. Biomaterials, 2011, 32, 39-47.	5.7	241
80	Synthesis of protein nano-conjugates for cancer therapy. Nano Research, 2011, 4, 425-433.	5.8	17
81	Controlled Protein Delivery Based on Enzymeâ€Responsive Nanocapsules. Advanced Materials, 2011, 23, 4549-4553.	11.1	97
82	Physically Associated Synthetic Hydrogels with Longâ€Term Covalent Stabilization for Cell Culture and Stem Cell Transplantation. Advanced Materials, 2011, 23, 5098-5103.	11.1	48
83	Clustered Argâ€"Glyâ€"Asp Peptides Enhances Tumor Targeting of Nonviral Vectors. ChemMedChem, 2011, 6, 623-627.	1.6	10
84	Evolving the use of peptides as components of biomaterials. Biomaterials, 2011, 32, 4198-4204.	5.7	203
85	Directing Cell Fate Through Biomaterial Microenvironments. , 2011, , 123-140.		0
86	Incorporation of active DNA/cationic polymer polyplexes into hydrogel scaffolds. Biomaterials, 2010, 31, 9106-9116.	5.7	86
87	Two and threeâ€dimensional gene transfer from enzymatically degradable hydrogel scaffolds. Microscopy Research and Technique, 2010, 73, 910-917.	1.2	13
88	Differential uptake of DNAâ€"poly(ethylenimine) polyplexes in cells cultured on collagen and fibronectin surfaces. Acta Biomaterialia, 2010, 6, 3436-3447.	4.1	36
89	Protease degradable tethers for controlled and cell-mediated release of nanoparticles in 2- and 3-dimensions. Biomaterials, 2010, 31, 8072-8080.	5.7	33
90	siRNA applications in nanomedicine. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2010, 2, 305-315.	3.3	113

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91	A novel intracellular protein delivery platform based on single-protein nanocapsules. Nature Nanotechnology, 2010, 5, 48-53.	15.6	394
92	Anchorage of VEGF to the extracellular matrix conveys differential signaling responses to endothelial cells. Journal of Cell Biology, 2010, 188, 595-609.	2.3	279
93	Quantum-Dot-Decorated Robust Transductable Bioluminescent Nanocapsules. Journal of the American Chemical Society, 2010, 132, 12780-12781.	6.6	61
94	Engineering Clustered Ligand Binding Into Nonviral Vectors: Î±vÎ²3 Targeting as an Example. Molecular Therapy, 2009, 17, 828-836.	3.7	37
95	The phosphorylation of vascular endothelial growth factor receptor-2 (VEGFR-2) by engineered surfaces with electrostatically or covalently immobilized VEGF. Biomaterials, 2009, 30, 4618-4628.	5.7	83
96	DNA delivery from matrix metalloproteinase degradable poly(ethylene glycol) hydrogels to mouse cloned mesenchymal stem cells. Biomaterials, 2009, 30, 254-265.	5.7	95
97	The effect of enzymatically degradable poly(ethylene glycol) hydrogels on smooth muscle cell phenotype. Biomaterials, 2008, 29, 314-326.	5.7	129
98	RNA Interference Targeting Hypoxia Inducible Factor 1Î± Reduces Post-Operative Adhesions in Rats. Journal of Surgical Research, 2007, 141, 162-170.	0.8	42
99	Synthesis and in Vitro Characterization of an ABC Triblock Copolymer for siRNA Delivery. Bioconjugate Chemistry, 2007, 18, 736-745.	1.8	67
100	Crosslinked hyaluronic acid hydrogels: a strategy to functionalize and pattern. Biomaterials, 2005, 26, 359-371.	5.7	326
101	Gene delivery through cell culture substrate adsorbed DNA complexes. Biotechnology and Bioengineering, 2005, 90, 290-302.	1.7	131
102	DNA delivery from hyaluronic acid-collagen hydrogels via a substrate-mediated approach. Biomaterials, 2005, 26, 1575-1584.	5.7	151
103	Substrate-mediated DNA delivery: role of the cationic polymer structure and extent of modification. Journal of Controlled Release, 2003, 93, 69-84.	4.8	111
104	Surface-Tethered DNA Complexes for Enhanced Gene Delivery. Bioconjugate Chemistry, 2002, 13, 621-629.	1.8	146
105	Materials for Non-Viral Gene Delivery. Annual Review of Materials Research, 2001, 31, 25-46.	4.3	115
106	Formulations and Delivery Limitations of Nucleic-Acid-Based Therapies. , 0, , 1013-1059.		1