

# Ennio Tasciotti

## List of Publications by Citations

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189  
papers

7,390  
citations

44  
h-index

80  
g-index

202  
ext. papers

8,743  
ext. citations

7.9  
avg, IF

6.01  
L-index

#	Paper	IF	Citations
189	Synthetic nanoparticles functionalized with biomimetic leukocyte membranes possess cell-like functions. <i>Nature Nanotechnology</i> , <b>2013</b> , 8, 61-8	28.7	736
188	Mesoporous silicon particles as a multistage delivery system for imaging and therapeutic applications. <i>Nature Nanotechnology</i> , <b>2008</b> , 3, 151-7	28.7	574
187	The impact of nanoparticle protein corona on cytotoxicity, immunotoxicity and target drug delivery. <i>Nanomedicine</i> , <b>2016</b> , 11, 81-100	5.6	368
186	Biodegradable silicon nanoneedles delivering nucleic acids intracellularly induce localized <i>in vivo</i> neovascularization. <i>Nature Materials</i> , <b>2015</b> , 14, 532-9	27	308
185	Toward Nanotechnology-Enabled Approaches against the COVID-19 Pandemic. <i>ACS Nano</i> , <b>2020</b> , 14, 6383-6406	16.7	290
184	Multistage nanovectors: from concept to novel imaging contrast agents and therapeutics. <i>Accounts of Chemical Research</i> , <b>2011</b> , 44, 979-89	24.3	174
183	Enabling individualized therapy through nanotechnology. <i>Pharmacological Research</i> , <b>2010</b> , 62, 57-89	10.2	151
182	Tailored porous silicon microparticles: fabrication and properties. <i>ChemPhysChem</i> , <b>2010</b> , 11, 1029-35	3.2	149
181	Bio-inspired engineering of cell- and virus-like nanoparticles for drug delivery. <i>Biomaterials</i> , <b>2017</b> , 147, 155-168	15.6	134
180	Biodegradable nanoneedles for localized delivery of nanoparticles <i>in vivo</i> : exploring the biointerface. <i>ACS Nano</i> , <b>2015</b> , 9, 5500-5509	16.7	133
179	Bromelain surface modification increases the diffusion of silica nanoparticles in the tumor extracellular matrix. <i>ACS Nano</i> , <b>2014</b> , 8, 9874-83	16.7	126
178	Evaluation of the osteoinductive potential of a bio-inspired scaffold mimicking the osteogenic niche for bone augmentation. <i>Biomaterials</i> , <b>2015</b> , 62, 128-37	15.6	112
177	Adult and umbilical cord blood-derived platelet-rich plasma for mesenchymal stem cell proliferation, chemotaxis, and cryo-preservation. <i>Biomaterials</i> , <b>2012</b> , 33, 5308-16	15.6	112
176	Nanotechnology for breast cancer therapy. <i>Biomedical Microdevices</i> , <b>2009</b> , 11, 49-63	3.7	105
175	Novel human-derived cell-penetrating peptides for specific subcellular delivery of therapeutic biomolecules. <i>Biochemical Journal</i> , <b>2005</b> , 390, 407-18	3.8	105
174	Loss of p53 drives neuron reprogramming in head and neck cancer. <i>Nature</i> , <b>2020</b> , 578, 449-454	50.4	99
173	Tailoring of the nanotexture of mesoporous silica films and their functionalized derivatives for selectively harvesting low molecular weight protein. <i>ACS Nano</i> , <b>2010</b> , 4, 439-51	16.7	88

172	Unveiling the in Vivo Protein Corona of Circulating Leukocyte-like Carriers. <i>ACS Nano</i> , <b>2017</b> , 11, 3262-3271	16.7	87
171	Mitotic trafficking of silicon microparticles. <i>Nanoscale</i> , <b>2009</b> , 1, 250-9	7.7	84
170	Mesoporous Silicon-PLGA Composite Microspheres for the Double Controlled Release of Biomolecules for Orthopedic Tissue Engineering. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 282-293	15.6	78
169	Humanized Biomimetic Nanovesicles for Neuron Targeting (Adv. Sci. 19/2021). <i>Advanced Science</i> , <b>2021</b> , 8, 2170125	13.6	78
168	Tailoring the degradation kinetics of mesoporous silicon structures through PEGylation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 94, 1236-43	5.4	72
167	Biomimetic nanoparticles with enhanced affinity towards activated endothelium as versatile tools for theranostic drug delivery. <i>Theranostics</i> , <b>2018</b> , 8, 1131-1145	12.1	66
166	Design and Development of Biomimetic Nanovesicles Using a Microfluidic Approach. <i>Advanced Materials</i> , <b>2018</b> , 30, e1702749	24	65
165	Mesoporous silica chips for selective enrichment and stabilization of low molecular weight proteome. <i>Proteomics</i> , <b>2010</b> , 10, 496-505	4.8	64
164	Nanotechnology in medicine: from inception to market domination. <i>Journal of Drug Delivery</i> , <b>2012</b> , 2012, 389485	2.3	60
163	In vivo imaging shows abnormal function of vascular endothelial growth factor-induced vasculature. <i>Human Gene Therapy</i> , <b>2007</b> , 18, 515-24	4.8	59
162	Silicon micro- and nanofabrication for medicine. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 632-66	10.1	58
161	One-pot synthesis of pH-responsive hybrid nanogel particles for the intracellular delivery of small interfering RNA. <i>Biomaterials</i> , <b>2016</b> , 87, 57-68	15.6	55
160	Engineering multi-stage nanovectors for controlled degradation and tunable release kinetics. <i>Biomaterials</i> , <b>2013</b> , 34, 8469-77	15.6	54
159	Red blood cells affect the margination of microparticles in synthetic microcapillaries and intravital microcirculation as a function of their size and shape. <i>Journal of Controlled Release</i> , <b>2015</b> , 217, 263-72	11.7	53
158	Enabling cytoplasmic delivery and organelle targeting by surface modification of nanocarriers. <i>Nanomedicine</i> , <b>2015</b> , 10, 1923-40	5.6	52
157	Nanodevices in diagnostics. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2011</b> , 3, 11-32	9.2	51
156	Rapamycin-Loaded Biomimetic Nanoparticles Reverse Vascular Inflammation. <i>Circulation Research</i> , <b>2020</b> , 126, 25-37	15.7	51
155	Effects of the protein corona on liposome-liposome and liposome-cell interactions. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 3049-63	7.3	50

154	Biomimetic Tissue Engineering: Tuning the Immune and Inflammatory Response to Implantable Biomaterials. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1800490	10.1	49
153	Chlorin e6 Functionalized Theranostic Multistage Nanovectors Transported by Stem Cells for Effective Photodynamic Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 23441-23449	9.5	48
152	Platelet-rich plasma: a biomimetic approach to enhancement of surgical wound healing. <i>Journal of Surgical Research</i> , <b>2017</b> , 207, 33-44	2.5	47
151	Exosome-like Nanovectors for Drug Delivery in Cancer. <i>Current Medicinal Chemistry</i> , <b>2019</b> , 26, 6132-6148	4.3	47
150	IL-4 Release from a Biomimetic Scaffold for the Temporally Controlled Modulation of Macrophage Response. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 2008-19	4.7	46
149	Hyaluronic acid coatings as a simple and efficient approach to improve MSC homing toward the site of inflammation. <i>Scientific Reports</i> , <b>2017</b> , 7, 7991	4.9	46
148	Biomimetic collagenous scaffold to tune inflammation by targeting macrophages. <i>Journal of Tissue Engineering</i> , <b>2016</b> , 7, 2041731415624667	7.5	46
147	Near-Infrared Imaging Method for the In Vivo Assessment of the Biodistribution of Nanoporous Silicon Particles. <i>Molecular Imaging</i> , <b>2011</b> , 10, 7290.2011.00011	3.7	44
146	Transcellular transfer of active HSV-1 thymidine kinase mediated by an 11-amino-acid peptide from HIV-1 Tat. <i>Cancer Gene Therapy</i> , <b>2003</b> , 10, 64-74	5.4	44
145	Chondroitin Sulfate Immobilized on a Biomimetic Scaffold Modulates Inflammation While Driving Chondrogenesis. <i>Stem Cells Translational Medicine</i> , <b>2016</b> , 5, 670-82	6.9	43
144	Multifunctional to multistage delivery systems: The evolution of nanoparticles for biomedical applications. <i>Science Bulletin</i> , <b>2012</b> , 57, 3961-3971		42
143	Cell source determines the immunological impact of biomimetic nanoparticles. <i>Biomaterials</i> , <b>2016</b> , 82, 168-77	15.6	41
142	Engineered biomimetic nanovesicles show intrinsic anti-inflammatory properties for the treatment of inflammatory bowel diseases. <i>Nanoscale</i> , <b>2017</b> , 9, 14581-14591	7.7	41
141	PLGA-Mesoporous Silicon Microspheres for the in Vivo Controlled Temporospacial Delivery of Proteins. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 16364-73	9.5	40
140	Short and long term, in vitro and in vivo correlations of cellular and tissue responses to mesoporous silicon nanovectors. <i>Small</i> , <b>2013</b> , 9, 1722-33	11	40
139	Nanocomposite Hydrogels as Platform for Cells Growth, Proliferation, and Chemotaxis. <i>Small</i> , <b>2016</b> , 12, 4881-4893	11	38
138	Multiscale patterning of a biomimetic scaffold integrated with composite microspheres. <i>Small</i> , <b>2014</b> , 10, 3943-53	11	37
137	Investigating the Mechanobiology of Cancer Cell-ECM Interaction Through Collagen-Based 3D Scaffolds. <i>Cellular and Molecular Bioengineering</i> , <b>2017</b> , 10, 223-234	3.9	34

136	A biomimetic 3D model of hypoxia-driven cancer progression. <i>Scientific Reports</i> , <b>2019</b> , 9, 12263	4.9	34
135	Mesoporous silica nanoparticles trigger mitophagy in endothelial cells and perturb neuronal network activity in a size- and time-dependent manner. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 3547-3559	7.3	34
134	Biomimetic collagen/elastin meshes for ventral hernia repair in a rat model. <i>Acta Biomaterialia</i> , <b>2017</b> , 50, 165-177	10.8	33
133	Enhanced osteogenic potential of mesenchymal stem cells from cortical bone: a comparative analysis. <i>Stem Cell Research and Therapy</i> , <b>2015</b> , 6, 203	8.3	33
132	Multi-composite bioactive osteogenic sponges featuring mesenchymal stem cells, platelet-rich plasma, nanoporous silicon enclosures, and Peptide amphiphiles for rapid bone regeneration. <i>Journal of Functional Biomaterials</i> , <b>2011</b> , 2, 39-66	4.8	33
131	Proteomic Profiling of a Biomimetic Drug Delivery Platform. <i>Current Drug Targets</i> , <b>2015</b> , 16, 1540-7	3	33
130	Smart cancer therapy with DNA origami. <i>Nature Biotechnology</i> , <b>2018</b> , 36, 234-235	44.5	32
129	Nanoantibiotics: a new paradigm for the treatment of surgical infection. <i>Nanomedicine</i> , <b>2017</b> , 12, 1319-1334	3.4	31
128	Multistage vector delivery of sulindac and silymarin for prevention of colon cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 136, 694-703	6	31
127	Degradation and biocompatibility of multistage nanovectors in physiological systems. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 3540-9	5.4	30
126	Fruit-specific expression of the human immunodeficiency virus type 1 tat gene in tomato plants and its immunogenic potential in mice. <i>Vaccine Journal</i> , <b>2007</b> , 14, 685-92		29
125	The Emerging Role of Nanotechnology in Cell and Organ Transplantation. <i>Transplantation</i> , <b>2016</b> , 100, 1629-38	1.8	29
124	Macrophage-derived nanovesicles exert intrinsic anti-inflammatory properties and prolong survival in sepsis through a direct interaction with macrophages. <i>Nanoscale</i> , <b>2019</b> , 11, 13576-13586	7.7	28
123	Electrospun anti-inflammatory patch loaded with essential oils for wound healing. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 577, 119067	6.5	28
122	Etoposide-loaded immunoliposomes as active targeting agents for GD2-positive malignancies. <i>Cancer Biology and Therapy</i> , <b>2014</b> , 15, 851-61	4.6	28
121	Leukocyte-mimicking nanovesicles for effective doxorubicin delivery to treat breast cancer and melanoma. <i>Biomaterials Science</i> , <b>2020</b> , 8, 333-341	7.4	28
120	The effect of multistage nanovector targeting of VEGFR2 positive tumor endothelia on cell adhesion and local payload accumulation. <i>Biomaterials</i> , <b>2014</b> , 35, 9824-9832	15.6	26
119	Osteoprogenitor cells from bone marrow and cortical bone: understanding how the environment affects their fate. <i>Stem Cells and Development</i> , <b>2015</b> , 24, 1112-23	4.4	26

118	Enhancing Vascularization through the Controlled Release of Platelet-Derived Growth Factor-BB. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 14566-14575	9.5	25
117	A New Method for Estimating the Effective Poisson's Ratio in Ultrasound Poroelastography. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 1178-1191	11.7	25
116	Agarose surface coating influences intracellular accumulation and enhances payload stability of a nano-delivery system. <i>Pharmaceutical Research</i> , <b>2011</b> , 28, 1520-30	4.5	25
115	Concise Review: Biomimetic Functionalization of Biomaterials to Stimulate the Endogenous Healing Process of Cartilage and Bone Tissue. <i>Stem Cells Translational Medicine</i> , <b>2017</b> , 6, 2186-2196	6.9	24
114	Inhibition of Non Canonical HIV-1 Tat Secretion Through the Cellular Na,K-ATPase Blocks HIV-1 Infection. <i>EBioMedicine</i> , <b>2017</b> , 21, 170-181	8.8	24
113	Near-infrared imaging method for the in vivo assessment of the biodistribution of nanoporous silicon particles. <i>Molecular Imaging</i> , <b>2011</b> , 10, 56-68	3.7	24
112	Cell membrane protein functionalization of nanoparticles as a new tumor-targeting strategy. <i>Clinical and Translational Medicine</i> , <b>2019</b> , 8, 8	5.7	23
111	Platelet rich plasma enhances tissue incorporation of biologic mesh. <i>Journal of Surgical Research</i> , <b>2015</b> , 199, 412-9	2.5	23
110	Cell Membrane-Based Biomimetic Nanoparticles and the Immune System: Immunomodulatory Interactions to Therapeutic Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 627	5.8	23
109	Immune tuning scaffold for the local induction of a pro-regenerative environment. <i>Scientific Reports</i> , <b>2017</b> , 7, 17030	4.9	23
108	Multistage Nanovectors Enhance the Delivery of Free and Encapsulated Drugs. <i>Current Drug Targets</i> , <b>2015</b> , 16, 1582-90	3	23
107	Nanomedicine: Ushering in a new era of pain management. <i>European Journal of Pain Supplements</i> , <b>2011</b> , 5, 317-322		22
106	Physicochemical properties affect the synthesis, controlled delivery, degradation and pharmacokinetics of inorganic nanoporous materials. <i>Nanomedicine</i> , <b>2015</b> , 10, 3057-3075	5.6	20
105	p65BTK is a novel potential actionable target in KRAS-mutated/EGFR-wild type lung adenocarcinoma. <i>Journal of Experimental and Clinical Cancer Research</i> , <b>2019</b> , 38, 260	12.8	19
104	Vascular Inflammation: A Novel Access Route for Nanomedicine. <i>Methodist DeBakey Cardiovascular Journal</i> , <b>2016</b> , 12, 169-174	2.1	19
103	Decreased hernia recurrence using autologous platelet-rich plasma (PRP) with Strattice™ mesh in a rodent ventral hernia model. <i>Surgical Endoscopy and Other Interventional Techniques</i> , <b>2016</b> , 30, 3239-49	5.2	19
102	Enhancing Inflammation Targeting Using Tunable Leukocyte-Based Biomimetic Nanoparticles. <i>ACS Nano</i> , <b>2021</b> , 15, 6326-6339	16.7	19
101	Lysyl oxidase engineered lipid nanovesicles for the treatment of triple negative breast cancer. <i>Scientific Reports</i> , <b>2021</b> , 11, 5107	4.9	19

100	Identification of a binding site of the human immunodeficiency virus envelope protein gp120 to neuronal-specific tubulin. <i>Journal of Neurochemistry</i> , <b>2016</b> , 137, 287-98	6	19
99	In Situ Reductive Synthesis of Structural Supported Gold Nanorods in Porous Silicon Particles for Multifunctional Nanovectors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 11881-91	9.5	19
98	Electrospun Patch Functionalized with Nanoparticles Allows for Spatiotemporal Release of VEGF and PDGF-BB Promoting In Vivo Neovascularization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 44344-44353	9.5	19
97	Microfluidic interactions between red blood cells and drug carriers by image analysis techniques. <i>Medical Engineering and Physics</i> , <b>2016</b> , 38, 17-23	2.4	18
96	Cefazolin-loaded mesoporous silicon microparticles show sustained bactericidal effect against Staphylococcus aureus. <i>Journal of Tissue Engineering</i> , <b>2014</b> , 5, 2041731414536573	7.5	18
95	Potential avoidance of adverse analgesic effects using a biologically "smart" hydrogel capable of controlled bupivacaine release. <i>Journal of Pharmaceutical Sciences</i> , <b>2014</b> , 103, 3724-3732	3.9	18
94	Microfluidic enrichment of small proteins from complex biological mixture on nanoporous silica chip. <i>Biomicrofluidics</i> , <b>2011</b> , 5, 13410	3.2	18
93	Mesenchymal stem cells from cortical bone demonstrate increased clonal incidence, potency, and developmental capacity compared to their bone marrow-derived counterparts. <i>Journal of Tissue Engineering</i> , <b>2016</b> , 7, 2041731416661196	7.5	16
92	Bioinspired approaches for cancer nanotheranostics. <i>Nanomedicine</i> , <b>2017</b> , 12, 5-7	5.6	16
91	Evaluation of cell function upon nanovector internalization. <i>Small</i> , <b>2013</b> , 9, 1696-702	11	16
90	Shaping the micromechanical behavior of multi-phase composites for bone tissue engineering. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 3448-56	10.8	16
89	Biomimetic Concealing of PLGA Microspheres in a 3D Scaffold to Prevent Macrophage Uptake. <i>Small</i> , <b>2016</b> , 12, 1479-88	11	16
88	Inflammation and Cancer: In Medio Stat Nano. <i>Current Medicinal Chemistry</i> , <b>2018</b> , 25, 4208-4223	4.3	16
87	Endocytic Trafficking of HIV gp120 is Mediated by Dynamin and Plays a Role in gp120 Neurotoxicity. <i>Journal of NeuroImmune Pharmacology</i> , <b>2017</b> , 12, 492-503	6.9	15
86	Infusion of iodine-based contrast agents into poly(p-dioxanone) as a radiopaque resorbable IVC filter. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 124	4.5	15
85	Porcine acellular lung matrix for wound healing and abdominal wall reconstruction: A pilot study. <i>Journal of Tissue Engineering</i> , <b>2016</b> , 7, 2041731415626018	7.5	15
84	Composite microsphere-functionalized scaffold for the controlled release of small molecules in tissue engineering. <i>Journal of Tissue Engineering</i> , <b>2016</b> , 7, 2041731415624668	7.5	15
83	Localized inhibition of P2X7R at the spinal cord injury site improves neurogenic bladder dysfunction by decreasing urothelial P2X3R expression in rats. <i>Life Sciences</i> , <b>2017</b> , 171, 60-67	6.8	14

82	Ultrasound elastography assessment of bone/soft tissue interface. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 131-50	3.8	14
81	Characterization of controlled bone defects using 2D and 3D ultrasound imaging techniques. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 4839-59	3.8	14
80	Nanotechnologies and regenerative medical approaches for space and terrestrial medicine. <i>Aviation, Space, and Environmental Medicine</i> , <b>2012</b> , 83, 1025-36		14
79	Clinical predictive circulating peptides in rectal cancer patients treated with neoadjuvant chemoradiotherapy. <i>Journal of Cellular Physiology</i> , <b>2015</b> , 230, 1822-8	7	13
78	Patterning Biomaterials for the Spatiotemporal Delivery of Bioactive Molecules. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2016</b> , 4, 45	5.8	13
77	Biocompatible PLGA-Mesoporous Silicon Microspheres for the Controlled Release of BMP-2 for Bone Augmentation. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	12
76	Non-invasive imaging of Young's modulus and Poisson's ratio in cancers in vivo. <i>Scientific Reports</i> , <b>2020</b> , 10, 7266	4.9	12
75	Optimizing cell seeding and retention in a three-dimensional bioengineered cardiac ventricle: The two-stage cellularization model. <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 2275-85	4.9	12
74	Mesoporous silicon particles as intravascular drug delivery vectors: fabrication, in-vitro, and in-vivo assessments. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2011</b> , 8, 1826-1832		12
73	Biomimetic Nanoparticles Potentiate the Anti-Inflammatory Properties of Dexamethasone and Reduce the Cytokine Storm Syndrome: An Additional Weapon against COVID-19?. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	12
72	Alterations of the Plasma Peptidome Profiling in Colorectal Cancer Progression. <i>Journal of Cellular Physiology</i> , <b>2016</b> , 231, 915-25	7	12
71	Liposome-Embedding Silicon Microparticle for Oxaliplatin Delivery in Tumor Chemotherapy. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	11
70	Trends towards Biomimicry in Theranostics. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	11
69	Cell membrane coating integrity affects the internalization mechanism of biomimetic nanoparticles. <i>Nature Communications</i> , <b>2021</b> , 12, 5726	17.4	11
68	Does the combination of erythropoietin and tapered oral corticosteroids improve recovery following iatrogenic nerve injury?. <i>Injury</i> , <b>2016</b> , 47, 1819-23	2.5	10
67	Fusion of the human immunodeficiency virus type 1 tat protein transduction domain to thymidine kinase increases bystander effect and induces enhanced tumor killing in vivo. <i>Human Gene Therapy</i> , <b>2005</b> , 16, 1389-403	4.8	10
66	Phosphoprotein-based biomarkers as predictors for cancer therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 18401-18411	11.5	10
65	Nanotechnology in the Treatment of Inflammatory Bowel Disease. <i>Inflammatory Bowel Diseases</i> , <b>2019</b> , 25, 1871-1880	4.5	9



64	The design and fabrication of a three-dimensional bioengineered open ventricle. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2017</b> , 105, 2206-2217	3.5	9
63	Reproducible and Characterized Method for Ponatinib Encapsulation into Biomimetic Lipid Nanoparticles as a Platform for Multi-Tyrosine Kinase-Targeted Therapy.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 6737-6745	4.1	9
62	Estimation of Vascular Permeability in Irregularly Shaped Cancers Using Ultrasound Poroelastography. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2020</b> , 67, 1083-1096	5	9
61	Cross-linking of porcine acellular dermal matrices negatively affects induced neovessel formation using platelet-rich plasma in a rat model of hernia repair. <i>Wound Repair and Regeneration</i> , <b>2017</b> , 25, 98-108	3.6	8
60	Bioinspired Extracellular Vesicles: Lessons Learned From Nature for Biomedicine and Bioengineering. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	8
59	Ghee Butter as a Therapeutic Delivery System. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 977-82	1.3	8
58	Local Inhibition of Macrophage and Smooth Muscle Cell Proliferation to Suppress Plaque Progression. <i>Methodist DeBakey Cardiovascular Journal</i> , <b>2016</b> , 12, 141-145	2.1	8
57	A New Class of Phantom Materials for Poroelastography Imaging Techniques. <i>Ultrasound in Medicine and Biology</i> , <b>2016</b> , 42, 1230-8	3.5	8
56	Radiopaque Resorbable Inferior Vena Cava Filter Infused with Gold Nanoparticles. <i>Scientific Reports</i> , <b>2017</b> , 7, 2147	4.9	8
55	A multifunctional nanostructured platform for localized sustained release of analgesics and antibiotics. <i>European Journal of Pain Supplements</i> , <b>2011</b> , 5, 423-432		8
54	Biomimetic cellular vectors for enhancing drug delivery to the lungs. <i>Scientific Reports</i> , <b>2020</b> , 10, 172	4.9	8
53	Innovative approaches to establish and characterize primary cultures: an 3D system and the zebrafish model. <i>Biology Open</i> , <b>2017</b> , 6, 133-140	2.2	8
52	Microfluidic Assembly of Liposomes with Tunable Size and Coloading Capabilities. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1792, 205-214	1.4	8
51	Continuous wound infusion of local anesthetic and steroid after major abdominal surgery: study protocol for a randomized controlled trial. <i>Trials</i> , <b>2015</b> , 16, 357	2.8	7
50	Biomarker Signature Discovery from Mass Spectrometry Data. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2014</b> , 11, 766-72	3	6
49	Heparan Sulfate: A Potential Candidate for the Development of Biomimetic Immunomodulatory Membranes. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2017</b> , 5, 54	5.8	6
48	Improving the immunosuppressive potential of articular chondroprogenitors in a three-dimensional culture setting. <i>Scientific Reports</i> , <b>2020</b> , 10, 16610	4.9	6
47	Tutorial: using nanoneedles for intracellular delivery. <i>Nature Protocols</i> , <b>2021</b> , 16, 4539-4563	18.8	6

46	Characterization of ventral incisional hernia and repair using shear wave elastography. <i>Journal of Surgical Research</i> , <b>2017</b> , 210, 244-252	2.5	5
45	Endosomal Escape of Polymer-Coated Silica Nanoparticles in Endothelial Cells. <i>Small</i> , <b>2020</b> , 16, e19076931		5
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