Paolo A Netti

List of Publications by Year
in descending order

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432	17,187	13865 67	24982 109
papers	citations	h-index	g-index

441	441	441	20609
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Role of extracellular matrix assembly in interstitial transport in solid tumors. Cancer Research, 2000, 60, 2497-503.	0.9	882
2	Solid stress inhibits the growth of multicellular tumor spheroids. Nature Biotechnology, 1997, 15, 778-783.	17.5	709
3	Diffusion of Macromolecules in Agarose Gels: Comparison of Linear and Globular Configurations. Biophysical Journal, 1999, 77, 542-552.	0.5	502
4	Controlled drug delivery in tissue engineering. Advanced Drug Delivery Reviews, 2008, 60, 229-242.	13.7	369
5	Recent advances in holographic 3D particle tracking. Advances in Optics and Photonics, 2015, 7, 713.	25.5	258
6	Solid stress generated by spheroid growth estimated using a linear poroelasticity modelâ˜†. Microvascular Research, 2003, 66, 204-212.	2.5	254
7	The effect of matrix composition of 3D constructs on embryonic stem cell differentiation. Biomaterials, 2005, 26, 6194-6207.	11.4	237
8	A multi-functional scaffold for tissue regeneration: The need to engineer a tissue analogue. Biomaterials, 2007, 28, 5093-5099.	11.4	232
9	Poly-Îµ-caprolactone/hydroxyapatite composites for bone regeneration: In vitro characterization and human osteoblast response. Journal of Biomedical Materials Research - Part A, 2006, 76A, 151-162.	4.0	211
10	Time-dependent behavior of interstitial fluid pressure in solid tumors: implications for drug delivery. Cancer Research, 1995, 55, 5451-8.	0.9	204
11	Single line particle focusing induced by viscoelasticity of the suspending liquid: theory, experiments and simulations to design a micropipe flow-focuser. Lab on A Chip, 2012, 12, 1638.	6.0	182
12	Enhancement of fluid filtration across tumor vessels: Implication for delivery of macromolecules. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 3137-3142.	7.1	174
13	Compatibility and the genesis of residual stress by volumetric growth. Journal of Mathematical Biology, 1996, 34, 889-914.	1.9	168
14	Effect of Transvascular Fluid Exchange on Pressureâ€“Flow Relationship in Tumors: A Proposed Mechanism for Tumor Blood Flow Heterogeneity. Microvascular Research, 1996, 52, 27-46.	2.5	162
15	Determinants of cellâ€“material crosstalk at the interface: towards engineering of cell instructive materials. Journal of the Royal Society Interface, 2012, 9, 2017-2032.	3.4	152
16	Digital holography as a method for 3D imaging and estimating the biovolume of motile cells. Lab on A Chip, 2013, 13, 4512.	6.0	152
17	Perspectives on: PEO-PPO-PEO Triblock Copolymers and their Biomedical Applications. Journal of Bioactive and Compatible Polymers, 2006, 21, 149-164.	2.1	143
18	Covalently immobilized RGD gradient on PEG hydrogel scaffold influences cell migration parameters. Acta Biomaterialia, 2010, 6, 2532-2539.	8.3	141

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19	Red blood cell as an adaptive optofluidic microlens. Nature Communications, 2015, 6, 6502.	12.8	141
20	Mechanics of interstitial-lymphatic fluid transport: theoretical foundation and experimental validation. Journal of Biomechanics, 1999, 32, 1297-1307.	2.1	140
21	Transmural Coupling of Fluid Flow in Microcirculatory Network and Interstitium in Tumors. Microvascular Research, 1997, 53, 128-141.	2.5	132
22	PCL microspheres based functional scaffolds by bottom-up approach with predefined microstructural properties and release profiles. Biomaterials, 2008, 29, 4800-4807.	11.4	131
23	Stimuli-responsive transdermal microneedle patches. Materials Today, 2021, 47, 206-222.	14.2	129
24	Recent advances in the formulation of PLGA microparticles for controlled drug delivery. Progress in Biomaterials, 2020, 9, 153-174.	4.5	119
25	Refocusing criterion via sparsity measurements in digital holography. Optics Letters, 2014, 39, 4719.	3.3	116
26	Design of porous polymeric scaffolds by gas foaming of heterogeneous blends. Journal of Materials Science: Materials in Medicine, 2009, 20, 2043-2051.	3.6	112
27	Metformin Prevents the Development of Chronic Heart Failure in the SHHF Rat Model. Diabetes, 2012, 61, 944-953.	0.6	112
28	Fluorescence Lifetimes and Quantum Yields of Rhodamine Derivatives: New Insights from Theory and Experiment. Journal of Physical Chemistry A, 2012, 116, 7491-7497.	2.5	108
29	Engineering Cell Instructive Materials To Control Cell Fate and Functions through Material Cues and Surface Patterning. ACS Applied Materials & Interfaces, 2016, 8, 14896-14908.	8.0	107
30	Cellulose Derivativeâ^'Hyaluronic Acid-Based Microporous Hydrogels Cross-Linked through Divinyl Sulfone (DVS) To Modulate Equilibrium Sorption Capacity and Network Stability. Biomacromolecules, 2004, 5, 92-96.	5.4	106
31	Curcumin bioavailability from oil in water nano-emulsions: In vitro and in vivo study on the dimensional, compositional and interactional dependence. Journal of Controlled Release, 2016, 233, 88-100.	9.9	106
32	3D morphometry of red blood cells by digital holography. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2014, 85, 1030-1036.	1.5	103
33	Supramolecular Spectrally Encoded Microgels with Double Strand Probes for Absolute and Direct miRNA Fluorescence Detection at High Sensitivity. Journal of the American Chemical Society, 2015, 137, 1758-1761.	13.7	101
34	Surface Investigation on Biomimetic Materials to Control Cell Adhesion: The Case of RGD Conjugation on PCL. Langmuir, 2010, 26, 9875-9884.	3.5	100
35	Particle alignment in a viscoelastic liquid flowing in a square-shaped microchannel. Lab on A Chip, 2013, 13, 4263.	6.0	98
36	Topographic cell instructive patterns to control cell adhesion, polarization and migration. Journal of the Royal Society Interface, 2014, 11, 20140687.	3.4	96

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37	Microsphere-integrated collagen scaffolds for tissue engineering: Effect of microsphere formulation and scaffold properties on protein release kinetics. Journal of Controlled Release, 2006, 113, 128-136.	9.9	95
38	Effect of Micro- and Macroporosity of Bone Tissue Three-Dimensional-Poly(É›-Caprolactone) Scaffold on Human Mesenchymal Stem Cells Invasion, Proliferation, and Differentiation In Vitro. Tissue Engineering - Part A, 2010, 16, 2661-2673.	3.1	95
39	Functional porous hydrogels to study angiogenesis under the effect of controlled release of vascular endothelial growth factor. Acta Biomaterialia, 2012, 8, 3294-3301.	8.3	95
40	Ribonuclease/angiogenin inhibitor 1 regulates stress-induced subcellular localization of angiogenin and controls its growth and survival activities. Journal of Cell Science, 2013, 126, 4308-19.	2.0	95
41	Three-Dimensional Poly(Îµ-caprolactone) Bioactive Scaffolds with Controlled Structural and Surface Properties. Biomacromolecules, 2012, 13, 3510-3521.	5.4	93
42	Intratumoral infusion of fluid: estimation of hydraulic conductivity and implications for the delivery of therapeutic agents. British Journal of Cancer, 1998, 78, 1442-1448.	6.4	90
43	Solid-state supercritical CO2 foaming of PCL and PCL-HA nano-composite: Effect of composition, thermal history and foaming process on foam pore structure. Journal of Supercritical Fluids, 2011, 58, 158-167.	3.2	88
44	Viscoelastic flow-focusing in microchannels: scaling properties of the particle radial distributions. Lab on A Chip, 2013, 13, 2802.	6.0	88
45	An Engineered Breast Cancer Model on a Chip to Replicate ECMâ€Activation In Vitro during Tumor Progression. Advanced Healthcare Materials, 2016, 5, 3074-3084.	7.6	88
46	Hyaluronic-acid-based semi-interpenetrating materials. Journal of Biomaterials Science, Polymer Edition, 2004, 15, 1223-1236.	3.5	87
47	Shuttleâ€Mediated Nanoparticle Delivery to the Bloodâ€“Brain Barrier. Small, 2013, 9, 853-862.	10.0	87
48	Tailoring the pore structure of PCL scaffolds for tissue engineering prepared via gas foaming of multi-phase blends. Journal of Porous Materials, 2012, 19, 181-188.	2.6	86
49	The role of hydroxyapatite as solid signal on performance of PCL porous scaffolds for bone tissue regeneration. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 86B, 548-557.	3.4	82
50	Oxygen consumption of chondrocytes in agarose and collagen gels: A comparative analysis. Biomaterials, 2008, 29, 1484-1493.	11.4	82
51	The Effective Dispersion of Nanovectors Within the Tumor Microvasculature. Annals of Biomedical Engineering, 2006, 34, 633-641.	2.5	81
52	Electroâ€Drawn Drugâ€Loaded Biodegradable Polymer Microneedles as a Viable Route to Hypodermic Injection. Advanced Functional Materials, 2014, 24, 3515-3523.	14.9	81
53	Progress in Microneedle-Mediated Protein Delivery. Journal of Clinical Medicine, 2020, 9, 542.	2.4	81
54	Reversible Holographic Patterns on Azopolymers for Guiding Cell Adhesion and Orientation. ACS Applied Materials & Interfaces, 2015, 7, 16984-16991.	8.0	79

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55	Encoding multiple holograms for speckle-noise reduction in optical display. Optics Express, 2014, 22, 25768.	3.4	78
56	Energy independent uptake and release of polystyrene nanoparticles in primary mammalian cell cultures. Experimental Cell Research, 2015, 330, 240-247.	2.6	78
57	Novel 3D porous multi-phase composite scaffolds based on PCL, thermoplastic zein and ha prepared via supercritical CO2 foaming for bone regeneration. Composites Science and Technology, 2010, 70, 1838-1846.	7.8	75
58	Biocompatibility, uptake and endocytosis pathways of polystyrene nanoparticles in primary human renal epithelial cells. Journal of Biotechnology, 2015, 193, 3-10.	3.8	75
59	Effect of serum proteins on polystyrene nanoparticle uptake and intracellular trafficking in endothelial cells. Journal of Nanoparticle Research, 2011, 13, 4295-4309.	1.9	74
60	Openâ€Pore Biodegradable Foams Prepared via Gas Foaming and Microparticulate Templating. Macromolecular Bioscience, 2008, 8, 655-664.	4.1	73
61	A peptide derived from herpes simplex virus type 1 glycoprotein H: membrane translocation and applications to the delivery of quantum dots. Nanomedicine: Nanotechnology, Biology, and Medicine, 2011, 7, 925-934.	3.3	73
62	Transport across the cell-membrane dictates nanoparticle fate and toxicity: a new paradigm in nanotoxicology. Nanoscale, 2014, 6, 10264-10273.	5.6	73
63	On the holographic 3D tracking of in vitro cells characterized by a highly-morphological change. Optics Express, 2012, 20, 28485.	3.4	72
64	Silver-containing mesoporous bioactive glass with improved antibacterial properties. Journal of Materials Science: Materials in Medicine, 2013, 24, 2129-2135.	3.6	71
65	Microrheology with Optical Tweezers: Measuring the relative viscosity of solutions â€˜at a glanceâ€™. Scientific Reports, 2015, 5, 8831.	3.3	71
66	Processing/structure/property relationship of multiâ€scaled PCL and PCLâ€“HA composite scaffolds prepared via gas foaming and NaCl reverse templating. Biotechnology and Bioengineering, 2011, 108, 963-976.	3.3	70
67	The role of microscaffold properties in controlling the collagen assembly in 3D dermis equivalent using modular tissue engineering. Biomaterials, 2013, 34, 7851-7861.	11.4	69
68	Bioactivation of collagen matrices through sustained VEGF release from PLGA microspheres. Journal of Biomedical Materials Research - Part A, 2010, 92A, 94-102.	4.0	68
69	Design of Bimodal PCL and PCLâ€HA Nanocomposite Scaffolds by Two Step Depressurization During Solidâ€state Supercritical CO₂ Foaming. Macromolecular Rapid Communications, 2011, 32, 1150-1156.	3.9	68
70	Non-invasive Production of Multi-Compartmental Biodegradable Polymer Microneedles for Controlled Intradermal Drug Release of Labile Molecules. Frontiers in Bioengineering and Biotechnology, 2019, 7, 296.	4.1	68
71	Crosstalk between focal adhesions and material mechanical properties governs cell mechanics and functions. Acta Biomaterialia, 2015, 23, 63-71.	8.3	67
72	Chitosan-based hydrogels: synthesis and characterization. Journal of Materials Science: Materials in Medicine, 2001, 12, 861-864.	3.6	66

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73	Particle tracking by full-field complex wavefront subtraction in digital holography microscopy. Lab on A Chip, 2014, 14, 1129-1134.	6.0	66
74	The performance of poly-Îµ-caprolactone scaffolds in a rabbit femur model with and without autologous stromal cells and BMP4. Biomaterials, 2007, 28, 3101-3109.	11.4	65
75	Imaging adherent cells in the microfluidic channel hidden by flowing RBCs as occluding objects by a holographic method. Lab on A Chip, 2014, 14, 2499.	6.0	65
76	Rheometry-on-a-chip: measuring the relaxation time of a viscoelastic liquid through particle migration in microchannel flows. Lab on A Chip, 2015, 15, 783-792.	6.0	64
77	Dynamic-mechanical properties of a novel composite intervertebral disc prosthesis. Journal of Materials Science: Materials in Medicine, 2007, 18, 2159-2165.	3.6	63
78	3D breast cancer microtissue reveals the role of tumor microenvironment on the transport and efficacy of free-doxorubicin in vitro. Acta Biomaterialia, 2018, 75, 200-212.	8.3	63
79	Cardioprotective Effects of Nanoemulsions Loaded with Anti-Inflammatory Nutraceuticals against Doxorubicin-Induced Cardiotoxicity. Nutrients, 2018, 10, 1304.	4.1	62
80	Bioengineered Skin Substitutes: The Role of Extracellular Matrix and Vascularization in the Healing of Deep Wounds. Journal of Clinical Medicine, 2019, 8, 2083.	2.4	62
81	Electroanalytical Sensor Based on Gold-Nanoparticle-Decorated Paper for Sensitive Detection of Copper Ions in Sweat and Serum. Analytical Chemistry, 2021, 93, 5225-5233.	6.5	62
82	Continuous fibre reinforced polymers as connective tissue replacement. Composites Science and Technology, 2004, 64, 861-871.	7.8	60
83	Bioengineered tumoral microtissues recapitulate desmoplastic reaction of pancreatic cancer. Acta Biomaterialia, 2017, 49, 152-166.	8.3	60
84	Cell mechanosensing is regulated by substrate strain energy rather than stiffness. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22004-22013.	7.1	60
85	A model for temporal heterogeneities of tumor blood flow. Microvascular Research, 2003, 65, 56-60.	2.5	58
86	Radiolabeled PET/MRI Nanoparticles for Tumor Imaging. Journal of Clinical Medicine, 2020, 9, 89.	2.4	58
87	Hydrogels as an interface between bone and an implant. Biomaterials, 1993, 14, 1098-1104.	11.4	57
88	Clickable Functionalization of Liposomes with the gH625 Peptide from Herpes simplex Virus Typeâ€…I for Intracellular Drug Delivery. Chemistry - A European Journal, 2011, 17, 12659-12668.	3.3	57
89	Effect of fluid rheology on particle migration in a square-shaped microchannel. Microfluidics and Nanofluidics, 2015, 19, 95-104.	2.2	57
90	Magnetophoresis â€˜meetsâ€™ viscoelasticity: deterministic separation of magnetic particles in a modular microfluidic device. Lab on A Chip, 2015, 15, 1912-1922.	6.0	56

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91	A Microfluidic Platform to design crosslinked Hyaluronic Acid Nanoparticles (cHANPs) for enhanced MRI. Scientific Reports, 2016, 6, 37906.	3.3	56
92	Tuning the material-cytoskeleton crosstalk via nanoconfinement of focal adhesions. Biomaterials, 2014, 35, 2743-2751.	11.4	54
93	Nanoengineered Surfaces for Focal Adhesion Guidance Trigger Mesenchymal Stem Cell Self-Organization and Tenogenesis. Nano Letters, 2015, 15, 1517-1525.	9.1	54
94	Spatioâ€Temporal Control of Dynamic Topographic Patterns on Azopolymers for Cell Culture Applications. Advanced Functional Materials, 2016, 26, 7572-7580.	14.9	53
95	Engineered dermal equivalent tissue in vitro by assembly of microtissue precursors. Acta Biomaterialia, 2010, 6, 2548-2553.	8.3	52
96	Engineered Microneedle Patches for Controlled Release of Active Compounds: Recent Advances in Release Profile Tuning. Advanced Therapeutics, 2020, 3, 2000171.	3.2	52
97	Design and manufacture of microporous polymeric materials with hierarchal complex structure for biomedical application. Materials Science and Technology, 2008, 24, 1111-1117.	1.6	51
98	Exploring the Metric of Excited State Proton Transfer Reactions. Journal of Physical Chemistry B, 2013, 117, 16165-16173.	2.6	51
99	Shuttleâ€mediated nanoparticle transport across an in vitro brain endothelium under flow conditions. Biotechnology and Bioengineering, 2017, 114, 1087-1095.	3.3	51
100	Tethered Pyro-Electrohydrodynamic Spinning for Patterning Well-Ordered Structures at Micro- and Nanoscale. Chemistry of Materials, 2014, 26, 3357-3360.	6.7	50
101	Composite hydrogels for intervertebral disc prostheses. Journal of Materials Science: Materials in Medicine, 1996, 7, 251-254.	3.6	49
102	Engineered Î¼-bimodal poly(Îµ-caprolactone) porous scaffold for enhanced hMSC colonization and proliferation. Acta Biomaterialia, 2009, 5, 1082-1093.	8.3	49
103	Complementary therapeutic effects of dual delivery of insulinâ€like growth factorâ€1 and vascular endothelial growth factor by gelatin microspheres in experimental heart failure. European Journal of Heart Failure, 2011, 13, 1264-1274.	7.1	49
104	Enzymatic sensing with laccase-functionalized textile organic biosensors. Organic Electronics, 2017, 40, 51-57.	2.6	49
105	Influence of electrospun fiber mesh size on hMSC oxygen metabolism in 3D collagen matrices: Experimental and theoretical evidences. Biotechnology and Bioengineering, 2011, 108, 1965-1976.	3.3	47
106	Engineering of poly(Îµ-caprolactone) microcarriers to modulate protein encapsulation capability and release kinetic. Journal of Materials Science: Materials in Medicine, 2008, 19, 1703-1711.	3.6	46
107	Azobenzene-based polymers: emerging applications as cell culture platforms. Biomaterials Science, 2018, 6, 990-995.	5.4	46
108	Effect of silica nanoparticles with variable size and surface functionalization on human endothelial cell viability and angiogenic activity. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	45

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109	Non-radiative decay paths in rhodamines: new theoretical insights. Physical Chemistry Chemical Physics, 2014, 16, 20681-20688.	2.8	44
110	Induction of directional sprouting angiogenesis by matrix gradients. Journal of Biomedical Materials Research - Part A, 2007, 80A, 297-305.	4.0	43
111	Microrheology of complex fluids using optical tweezers: a comparison with macrorheological measurements. Journal of Optics, 2009, 11, 034016.	1.5	43
112	Optical signature of erythrocytes by light scattering in microfluidic flows. Lab on A Chip, 2015, 15, 3278-3285.	6.0	43
113	Pre-vascularized dermis model for fast and functional anastomosis with host vasculature. Biomaterials, 2019, 192, 159-170.	11.4	43
114	Viscoelastic behavior of composite ligament prostheses. , 1998, 42, 6-12.		42
115	Synthesis and characterization of macroporous poly(ethylene glycol)-based hydrogels for tissue engineering application. Journal of Biomedical Materials Research - Part A, 2006, 79A, 229-236.	4.0	41
116	3D is not enough: Building up a cell instructive microenvironment for tumoral stroma microtissues. Acta Biomaterialia, 2017, 47, 1-13.	8.3	41
117	Effects of fibronectin and laminin on structural, mechanical and transport properties of 3D collageneous network. Journal of Materials Science: Materials in Medicine, 2007, 18, 245-253.	3.6	39
118	Image processing and fractal box counting: user-assisted method for multi-scale porous scaffold characterization. Journal of Materials Science: Materials in Medicine, 2010, 21, 3109-3118.	3.6	39
119	Recapitulating spatiotemporal tumor heterogeneity in vitro through engineered breast cancer microtissues. Acta Biomaterialia, 2018, 73, 236-249.	8.3	39
120	The effect of composition and microstructure on the viscoelastic properties of dermis. Journal of Biomechanics, 2009, 42, 430-435.	2.1	38
121	Quantitative phase maps denoising of long holographic sequences by using SPADEDH algorithm. Applied Optics, 2013, 52, 1453.	1.8	38
122	Structural insights into amyloid structures of the C-terminal region of nucleophosmin 1 in type A mutation of acute myeloid leukemia. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 637-644.	2.3	38
123	Endogenous human skin equivalent promotes inÂvitro morphogenesis of follicle-like structures. Biomaterials, 2016, 101, 86-95.	11.4	37
124	Oil/water nano-emulsion loaded with cobalt ferrite oxide nanocubes for photo-acoustic and magnetic resonance dual imaging in cancer: in vitro and preclinical studies. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 275-286.	3.3	37
125	Spatio-Temporal Control of Cell Adhesion: Toward Programmable Platforms to Manipulate Cell Functions and Fate. Frontiers in Bioengineering and Biotechnology, 2018, 6, 190.	4.1	37
126	Enhanced Drug Delivery into Cell Cytosol via Glycoprotein H-Derived Peptide Conjugated Nanoemulsions. ACS Nano, 2017, 11, 9802-9813.	14.6	36

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127	InÂvitro activation of the neuro-transduction mechanism in sensitive organotypic human skin model. Biomaterials, 2017, 113, 217-229.	11.4	36
128	Three-Dimensional Microstructured Azobenzene-Containing Gelatin as a Photoactuable Cell Confining System. ACS Applied Materials & Interfaces, 2018, 10, 91-97.	8.0	36
129	Polystyrene nanoparticles affect Xenopus laevis development. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	35
130	Dynamics of nanoparticle diffusion and uptake in three-dimensional cell cultures. Colloids and Surfaces B: Biointerfaces, 2017, 149, 7-15.	5.0	35
131	Subdiffusive Molecular Motion in Nanochannels Observed by Fluorescence Correlation Spectroscopy. Analytical Chemistry, 2010, 82, 997-1005.	6.5	34
132	Intermolecular proton shuttling in excited state proton transfer reactions: insights from theory. Physical Chemistry Chemical Physics, 2014, 16, 8661-8666.	2.8	34
133	Electro-drawn polymer microneedle arrays with controlled shape and dimension. Sensors and Actuators B: Chemical, 2018, 255, 1553-1560.	7.8	34
134	Design and preparation of Î¼â€bimodal porous scaffold for tissue engineering. Journal of Applied Polymer Science, 2007, 106, 3335-3342.	2.6	33
135	New Insights into the Mechanisms of the Interactions Between Doxorubicin and the Ion-Exchange Hydrogel DC Beadâ„¢ for Use in Transarterial Chemoembolization (TACE). Journal of Biomaterials Science, Polymer Edition, 2012, 23, 333-354.	3.5	33
136	Highly Efficient Surface-Enhanced Raman Scattering Substrate Formulation by Self-Assembled Gold Nanoparticles Physisorbed on Poly(N-isopropylacrylamide) Thermoresponsive Hydrogels. Langmuir, 2014, 30, 3869-3875.	3.5	33
137	Ligand engagement on material surfaces is discriminated by cell mechanosensoring. Biomaterials, 2015, 45, 72-80.	11.4	33
138	Relaxation time of polyelectrolyte solutions: When Î¼-rheometry steps in charge. Journal of Rheology, 2017, 61, 13-21.	2.6	33
139	Building a Tissue In Vitro from the Bottom Up: Implications in Regenerative Medicine. Methodist DeBakey Cardiovascular Journal, 2021, 9, 213.	1.0	32
140	3D tumor microtissues as an in vitro testing platform for microenvironmentally-triggered drug delivery systems. Acta Biomaterialia, 2017, 57, 47-58.	8.3	32
141	Intestineâ€onâ€chip device increases ECM remodeling inducing faster epithelial cell differentiation. Biotechnology and Bioengineering, 2020, 117, 556-566.	3.3	32
142	Recombinant Filamentous Bacteriophages Encapsulated in Biodegradable Polymeric Microparticles for Stimulation of Innate and Adaptive Immune Responses. Microorganisms, 2020, 8, 650.	3.6	32
143	Investigation of the mechanisms governing doxorubicin and irinotecan release from drug-eluting beads: mathematical modeling and experimental verification. Journal of Materials Science: Materials in Medicine, 2013, 24, 2359-2370.	3.6	31
144	Tunable stability of monodisperse secondary O/W nano-emulsions. Nanoscale, 2014, 6, 9300.	5.6	31

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145	Large-Scale Plasmonic nanoCones Array For Spectroscopy Detection. ACS Applied Materials & Interfaces, 2015, 7, 23597-23604.	8.0	31
146	Biophysical properties of dermal building-blocks affect extra cellular matrix assembly in 3D endogenous macrotissue. Biofabrication, 2016, 8, 015010.	7.1	31
147	Self-assembly of gold nanowire networks into gold foams: production, ultrastructure and applications. Inorganic Chemistry Frontiers, 2017, 4, 1033-1041.	6.0	31
148	Turn-on fluorescence detection of protein by molecularly imprinted hydrogels based on supramolecular assembly of peptide multi-functional blocks. Journal of Materials Chemistry B, 2018, 6, 1207-1215.	5.8	31
149	Intestine-Liver Axis On-Chip Reveals the Intestinal Protective Role on Hepatic Damage by Emulating Ethanol First-Pass Metabolism. Frontiers in Bioengineering and Biotechnology, 2020, 8, 163.	4.1	31
150	Design of novel three-phase PCL/TZâ€“HA biomaterials for use in bone regeneration applications. Journal of Materials Science: Materials in Medicine, 2010, 21, 2569-2581.	3.6	30
151	Evolutionary screening and adsorption behavior of engineered M13 bacteriophage and derived dodecapeptide for selective decoration of gold interfaces. Journal of Colloid and Interface Science, 2013, 389, 220-229.	9.4	30
152	Mechanical phenotyping of cells and extracellular matrix as grade and stage markers of lung tumor tissues. Acta Biomaterialia, 2017, 57, 334-341.	8.3	30
153	Diffusion limited green synthesis of ultra-small gold nanoparticles at room temperature. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 558, 548-557.	4.7	30
154	Azobenzene-based sinusoidal surface topography drives focal adhesion confinement and guides collective migration of epithelial cells. Scientific Reports, 2020, 10, 15329.	3.3	30
155	Coating process and early stage adhesion evaluation of poly(2-hydroxy-ethyl-methacrylate) hydrogel coating of 316L steel surface for stent applications. Journal of Materials Science: Materials in Medicine, 2009, 20, 1541-1551.	3.6	29
156	Microstructure, degradation and in vitro MG63 cells interactions of a new poly(Îµ-caprolactone), zein, and hydroxyapatite composite for bone tissue engineering. Journal of Bioactive and Compatible Polymers, 2012, 27, 210-226.	2.1	29
157	Multiplex single particle analysis in microfluidics. Analyst, The, 2014, 139, 5239-5246.	3.5	29
158	From square to circular polymeric microchannels by spin coating technology: a low cost platform for endothelial cell culture. Biofabrication, 2016, 8, 025005.	7.1	29
159	Hemoglobinâ€Conjugated Gelatin Microsphere as a Smart Oxygen Releasing Biomaterial. Advanced Healthcare Materials, 2016, 5, 2655-2666.	7.6	29
160	Light-responsive polymer brushes: active topographic cues for cell culture applications. Polymer Chemistry, 2017, 8, 3271-3278.	3.9	29
161	Dynamic Manipulation of Cell Membrane Curvature by Light-Driven Reshaping of Azopolymer. Nano Letters, 2020, 20, 577-584.	9.1	29
162	Theranostic Design of Angiopep-2 Conjugated Hyaluronic Acid Nanoparticles (Thera-ANG-cHANPs) for Dual Targeting and Boosted Imaging of Glioma Cells. Cancers, 2021, 13, 503.	3.7	29

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163	Multilayered silica-biopolymer nanocapsules with a hydrophobic core and a hydrophilic tunable shell thickness. Nanoscale, 2016, 8, 8798-8809.	5.6	28
164	Compatibility and the genesis of residual stress by volumetric growth. Journal of Mathematical Biology, 1996, 34, 889-914.	1.9	28
165	Bioactivated collagen-based scaffolds embedding protein-releasing biodegradable microspheres: tuning of protein release kinetics. Journal of Materials Science: Materials in Medicine, 2009, 20, 2117-2128.	3.6	27
166	A novel hybrid PU-alumina flexible foam with superior hydrophilicity and adsorption of carcinogenic compounds from tobacco smoke. Microporous and Mesoporous Materials, 2012, 151, 79-87.	4.4	27
167	Engineering strategies to control vascular endothelial growth factor stability and levels in a collagen matrix for angiogenesis: The role of heparin sodium salt and the PLGA-based microsphere approach. Acta Biomaterialia, 2013, 9, 7389-7398.	8.3	27
168	Micro-patterned endogenous stroma equivalent induces polarized crypt-villus architecture of human small intestinal epithelium. Acta Biomaterialia, 2018, 81, 43-59.	8.3	27
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