

# Paolo Decuzzi

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

184  
papers

9,622  
citations

46  
h-index

94  
g-index

200  
ext. papers

10,846  
ext. citations

6.9  
avg, IF

6.3  
L-index

#	Paper	IF	Citations
184	Long-lasting rescue of schizophrenia-relevant cognitive impairments via risperidone-loaded microPlates.. <i>Drug Delivery and Translational Research</i> , <b>2022</b> , 1	6.2	0
183	Vascular-confined multi-passage discoidal nanoconstructs for the low-dose docetaxel inhibition of triple-negative breast cancer growth. <i>Nano Research</i> , <b>2022</b> , 15, 482	10	1
182	Preparation of anisotropic multiscale micro-hydrogels via two-photon continuous flow lithography. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 608, 622-633	9.3	2
181	Shape-specific microfabricated particles for biomedical applications: a review.. <i>Drug Delivery and Translational Research</i> , <b>2022</b> , 1	6.2	0
180	Management of osteoarthritis: From drug molecules to nano/micromedicines.. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2022</b> , e1780	9.2	3
179	Embedding Hydrogels into Microfluidic Chips: Vascular Transport Analyses and Drug Delivery Optimization <b>2022</b> , 275-294		
178	Insulin Granule-Loaded MicroPlates for Modulating Blood Glucose Levels in Type-1 Diabetes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 53618-53629	9.5	1
177	Nanoparticle theranostics in cardiovascular inflammation. <i>Seminars in Immunology</i> , <b>2021</b> , 56, 101536	10.7	0
176	A 3D pancreatic tumor model to study T cell infiltration. <i>Biomaterials Science</i> , <b>2021</b> , 9, 7420-7431	7.4	3
175	Roadmap on nanomedicine. <i>Nanotechnology</i> , <b>2021</b> , 32, 012001	3.4	5
174	Cytosolic delivery of nucleic acids: The case of ionizable lipid nanoparticles. <i>Bioengineering and Translational Medicine</i> , <b>2021</b> , 6, e10213	14.8	38
173	Enhancing islet transplantation using a biocompatible collagen-PDMS bioscaffold enriched with dexamethasone-microplates. <i>Biofabrication</i> , <b>2021</b> ,	10.5	5
172	Conformable hierarchically engineered polymeric micromeshes enabling combinatorial therapies in brain tumours. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 820-829	28.7	9
171	2D Gadolinium Oxide Nanoplates as T Magnetic Resonance Imaging Contrast Agents. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2001780	10.1	7
170	Curcumin-Loaded Nanoparticles Impair the Pro-Tumor Activity of Acid-Stressed MSC in an In Vitro Model of Osteosarcoma. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
169	A permeable on-chip microvasculature for assessing the transport of macromolecules and polymeric nanoconstructs. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 594, 409-423	9.3	0
168	Injectable thermoresponsive hydrogels as drug delivery system for the treatment of central nervous system disorders: A review. <i>Journal of Controlled Release</i> , <b>2021</b> , 329, 16-35	11.7	25

167	Boosting nanomedicine performance by conditioning macrophages with methyl palmitate nanoparticles. <i>Materials Horizons</i> , <b>2021</b> , 8, 2726-2741	14.4	4
166	Harnessing Endogenous Stimuli for Responsive Materials in Theranostics. <i>ACS Nano</i> , <b>2021</b> , 15, 2068-2098	6.7	40
165	Shape-Defined microPlates for the Sustained Intra-articular Release of Dexamethasone in the Management of Overload-Induced Osteoarthritis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 31379-31392	9.5	9
164	Top-Down Fabricated microPlates for Prolonged, Intra-articular Matrix Metalloproteinase 13 siRNA Nanocarrier Delivery to Reduce Post-traumatic Osteoarthritis. <i>ACS Nano</i> , <b>2021</b> , 15, 14475-14491	16.7	4
163	Predicting the Miscibility and Rigidity of Poly(lactic-glycolic acid)/Polyethylene Glycol Blends via Molecular Dynamics Simulations. <i>Macromolecules</i> , <b>2020</b> , 53, 3643-3654	5.5	6
162	Ultrasound-induced deformation of PLGA-microPlates for on-command drug release. <i>Microelectronic Engineering</i> , <b>2020</b> , 229, 111360	2.5	10
161	Drug delivery: Experiments, mathematical modelling and machine learning. <i>Computers in Biology and Medicine</i> , <b>2020</b> , 123, 103820	7	5
160	Optimizing the Pharmacological Properties of Discoidal Polymeric Nanoconstructs Against Triple-Negative Breast Cancer Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 5	5.8	8
159	Modulating the Distant Spreading of Patient-Derived Colorectal Cancer Cells via Aspirin and Metformin. <i>Translational Oncology</i> , <b>2020</b> , 13, 100760	4.9	4
158	Overcoming Nanoparticle-Mediated Complement Activation by Surface PEG Pairing. <i>Nano Letters</i> , <b>2020</b> , 20, 4312-4321	11.5	34
157	Emerging Nano- and Micro-Technologies Used in the Treatment of Type-1 Diabetes. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	16
156	Engineering shape-defined PLGA microPlates for the sustained release of anti-inflammatory molecules. <i>Journal of Controlled Release</i> , <b>2020</b> , 319, 201-212	11.7	17
155	Modulating Lipoprotein Transcellular Transport and Atherosclerotic Plaque Formation in ApoE Mice via Nanoformulated Lipid-Methotrexate Conjugates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 37943-37956	9.5	7
154	Elucidating the Role of Matrix Porosity and Rigidity in Glioblastoma Type IV Progression. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 9076	2.6	0
153	Simulating blood rheology across scales: A hybrid LB-particle approach. <i>International Journal of Modern Physics C</i> , <b>2019</b> , 30, 1941003	1.1	1
152	A tissue chamber chip for assessing nanoparticle mobility in the extravascular space. <i>Biomedical Microdevices</i> , <b>2019</b> , 21, 41	3.7	3
151	The Photophysics of Polythiophene Nanoparticles for Biological Applications. <i>ChemBioChem</i> , <b>2019</b> , 20, 532-536	3.8	8
150	Leaf-Inspired Authentically Complex Microvascular Networks for Deciphering Biological Transport Process. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 31627-31637	9.5	6

149	Unraveling the Vascular Fate of Deformable Circulating Tumor Cells Via a Hierarchical Computational Model. <i>Cellular and Molecular Bioengineering</i> , <b>2019</b> , 12, 543-558	3.9	8
148	Two-Channel Compartmentalized Microfluidic Chip for Real-Time Monitoring of the Metastatic Cascade. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 4834-4843	5.5	13
147	Nanoformulated Zoledronic Acid Boosts the V $\alpha$ T Cell Immunotherapeutic Potential in Colorectal Cancer. <i>Cancers</i> , <b>2019</b> , 12,	6.6	12
146	Needle-Free Jet Injectors for Dermal and Transdermal Delivery of Actives <b>2019</b> , 201-222		
145	Kinematic and dynamic forcing strategies for predicting the transport of inertial capsules via a combined lattice Boltzmann Immersed Boundary method. <i>Computers and Fluids</i> , <b>2019</b> , 180, 41-53	2.8	16
144	Targeting central nervous system pathologies with nanomedicines. <i>Journal of Drug Targeting</i> , <b>2019</b> , 27, 542-554	5.4	12
143	Hierarchical Microplates as Drug Depots with Controlled Geometry, Rigidity, and Therapeutic Efficacy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 9280-9289	9.5	15
142	Modulating Phagocytic Cell Sequestration by Tailoring Nanoconstruct Softness. <i>ACS Nano</i> , <b>2018</b> , 12, 1433-1444	16.7	54
141	Patient-Specific Flow Descriptors and Normalized wall index in Peripheral Artery Disease: a Preliminary Study. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , <b>2018</b> , 6, 119-127	0.9	6
140	Predicting the role of microstructural and biomechanical cues in tumor growth and spreading. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2018</b> , 34, e2935	2.6	6
139	Smart nanoconstructs for theranostics in cancer and cardiovascular diseases <b>2018</b> , 297-321		0
138	Deciphering the relative contribution of vascular inflammation and blood rheology in metastatic spreading. <i>Biomicrofluidics</i> , <b>2018</b> , 12, 042205	3.2	16
137	Erythrocyte-Inspired Discoidal Polymeric Nanoconstructs Carrying Tissue Plasminogen Activator for the Enhanced Lysis of Blood Clots. <i>ACS Nano</i> , <b>2018</b> , 12, 12224-12237	16.7	49
136	Targeting Inflammation With Nanosized Drug Delivery Platforms in Cardiovascular Diseases: Immune Cell Modulation in Atherosclerosis. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2018</b> , 6, 177	5.8	16
135	Predicting the vascular adhesion of deformable drug carriers in narrow capillaries traversed by blood cells. <i>Journal of Fluids and Structures</i> , <b>2018</b> , 82, 638-650	3.1	10
134	Methotrexate-Loaded Hybrid Nanoconstructs Target Vascular Lesions and Inhibit Atherosclerosis Progression in ApoE Mice. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1601286	10.1	23
133	Deformable Discoidal Polymeric Nanoconstructs for the Precise Delivery of Therapeutic and Imaging Agents. <i>Molecular Therapy</i> , <b>2017</b> , 25, 1514-1521	11.7	26
132	Predicting different adhesive regimens of circulating particles at blood capillary walls. <i>Microfluidics and Nanofluidics</i> , <b>2017</b> , 21, 168	2.8	15

131	Dexamethasone-loaded Polymeric Nanoconstructs for Monitoring and Treating Inflammatory Bowel Disease. <i>Theranostics</i> , <b>2017</b> , 7, 3653-3666	12.1	30
130	Nanoparticles and innate immunity: new perspectives on host defence. <i>Seminars in Immunology</i> , <b>2017</b> , 34, 33-51	10.7	160
129	Nano-Particles for Biomedical Applications. <i>Springer Handbooks</i> , <b>2017</b> , 643-691	1.3	4
128	Assembly of Iron Oxide Nanocubes for Enhanced Cancer Hyperthermia and Magnetic Resonance Imaging. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	38
127	Ameliorating Amyloid- $\beta$ Fibrils Triggered Inflammation Curcumin-Loaded Polymeric Nanoconstructs. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 1411	8.4	31
126	Enhancing photothermal cancer therapy by clustering gold nanoparticles into spherical polymeric nanoconstructs. <i>Optics and Lasers in Engineering</i> , <b>2016</b> , 76, 74-81	4.6	38
125	Stress distribution retrieval in granular materials: A multi-scale model and digital image correlation measurements. <i>Optics and Lasers in Engineering</i> , <b>2016</b> , 76, 17-26	4.6	12
124	A microfluidic platform with permeable walls for the analysis of vascular and extravascular mass transport. <i>Microfluidics and Nanofluidics</i> , <b>2016</b> , 20, 1	2.8	13
123	Spherical polymeric nanoconstructs for combined chemotherapeutic and anti-inflammatory therapies. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2016</b> , 12, 2139-2147	6	21
122	Paramagnetic Gd(3+) labeled red blood cells for magnetic resonance angiography. <i>Biomaterials</i> , <b>2016</b> , 98, 163-70	15.6	26
121	A combined Lattice Boltzmann and Immersed boundary approach for predicting the vascular transport of differently shaped particles. <i>Computers and Fluids</i> , <b>2016</b> , 136, 260-271	2.8	20
120	Predicting the growth of glioblastoma multiforme spheroids using a multiphase porous media model. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2016</b> , 15, 1215-28	3.8	45
119	Niosomes as Drug Nanovectors: Multiscale pH-Dependent Structural Response. <i>Langmuir</i> , <b>2016</b> , 32, 12414-9	4.9	37
118	Multicomponent, peptide-targeted glycol chitosan nanoparticles containing ferrimagnetic iron oxide nanocubes for bladder cancer multimodal imaging. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 4141-55	7.3	35
117	Tuning core hydrophobicity of spherical polymeric nanoconstructs for docetaxel delivery. <i>Polymer International</i> , <b>2016</b> , 65, 741-746	3.3	16
116	Facilitating the Clinical Integration of Nanomedicines: The Roles of Theoretical and Computational Scientists. <i>ACS Nano</i> , <b>2016</b> , 10, 8133-8	16.7	27
115	TPA Immobilization on Iron Oxide Nanocubes and Localized Magnetic Hyperthermia Accelerate Blood Clot Lysis. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1709-1718	15.6	45
114	A physical sciences network characterization of circulating tumor cell aggregate transport. <i>American Journal of Physiology - Cell Physiology</i> , <b>2015</b> , 308, C792-802	5.4	42

113	Soft Discoidal Polymeric Nanoconstructs Resist Macrophage Uptake and Enhance Vascular Targeting in Tumors. <i>ACS Nano</i> , <b>2015</b> , 9, 11628-41	16.7	114
112	Modelling mass and heat transfer in nano-based cancer hyperthermia. <i>Royal Society Open Science</i> , <b>2015</b> , 2, 150447	3.3	43
111	Engineered manganese oxide nanocrystals for enhanced uranyl sorption and separation. <i>Environmental Science: Nano</i> , <b>2015</b> , 2, 500-508	7.1	38
110	Networks of neuroblastoma cells on porous silicon substrates reveal a small world topology. <i>Integrative Biology (United Kingdom)</i> , <b>2015</b> , 7, 184-97	3.7	24
109	Role of differential adhesion in cell cluster evolution: from vasculogenesis to cancer metastasis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2015</b> , 18, 282-92	2.1	15
108	The role of cell lysis and matrix deposition in tumor growth modeling. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , <b>2015</b> , 2,	2.7	9
107	Radiolabeled Polymeric Nanoconstructs Loaded with Docetaxel and Curcumin for Cancer Combinatorial Therapy and Nuclear Imaging. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3371-3379	15.6	27
106	Magnetic resonance imaging-based computational modelling of blood flow and nanomedicine deposition in patients with peripheral arterial disease. <i>Journal of the Royal Society Interface</i> , <b>2015</b> , 12,	4.1	22
105	Computational Modeling of Tumor Response to Drug Release from Vasculature-Bound Nanoparticles. <i>PLoS ONE</i> , <b>2015</b> , 10, e0144888	3.7	34
104	Scaling behaviour for the water transport in nanoconfined geometries. <i>Nature Communications</i> , <b>2014</b> , 5, 4565	17.4	111
103	Predicting the size-dependent tissue accumulation of agents released from vascular targeted nanoconstructs. <i>Computational Mechanics</i> , <b>2014</b> , 53, 437-447	4	
102	A Bayesian hierarchical model for maximizing the vascular adhesion of nanoparticles. <i>Computational Mechanics</i> , <b>2014</b> , 53, 539-547	4	1
101	Three phase flow dynamics in tumor growth. <i>Computational Mechanics</i> , <b>2014</b> , 53, 465-484	4	31
100	Hierarchically-Structured Magnetic Nanoconstructs with Enhanced Relaxivity and Cooperative Tumor Accumulation. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4584-4594	15.6	44
99	Multiscale modeling and uncertainty quantification in nanoparticle-mediated drug/gene delivery. <i>Computational Mechanics</i> , <b>2014</b> , 53, 511-537	4	43
98	Gadolinium oxide nanoplates with high longitudinal relaxivity for magnetic resonance imaging. <i>Nanoscale</i> , <b>2014</b> , 6, 13637-45	7.7	61
97	Gadolinium-conjugated gold nanoshells for multimodal diagnostic imaging and photothermal cancer therapy. <i>Small</i> , <b>2014</b> , 10, 556-65	11	83
96	Enhanced MRI relaxivity of aquated Gd <sup>3+</sup> ions by carboxyphenylated water-dispersed graphene nanoribbons. <i>Nanoscale</i> , <b>2014</b> , 6, 3059-63	7.7	38

95	Geometrical confinement of Gd(DOTA) molecules within mesoporous silicon nanoconstructs for MR imaging of cancer. <i>Cancer Letters</i> , <b>2014</b> , 352, 97-101	9.9	30
94	Synthesis of multifunctional magnetic nanoflakes for magnetic resonance imaging, hyperthermia, and targeting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 12939-46	9.5	42
93	USNCTAM perspectives on mechanics in medicine. <i>Journal of the Royal Society Interface</i> , <b>2014</b> , 11, 20140201	4.1	28
92	Heat-generating iron oxide nanocubes: subtle "destructorators" of the tumoral microenvironment. <i>ACS Nano</i> , <b>2014</b> , 8, 4268-83	16.7	166
91	Lipid-polymer nanoparticles encapsulating curcumin for modulating the vascular deposition of breast cancer cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2014</b> , 10, 991-1002	6	66
90	A tumor growth model with deformable ECM. <i>Physical Biology</i> , <b>2014</b> , 11, 065004	3	46
89	Positron emitting magnetic nanoconstructs for PET/MR imaging. <i>Small</i> , <b>2014</b> , 10, 2688-96	11	44
88	Magnetic Nanoparticles: Hierarchically Structured Magnetic Nanoconstructs with Enhanced Relaxivity and Cooperative Tumor Accumulation (Adv. Funct. Mater. 29/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4562-4562	15.6	
87	Opportunities for NanoTheranosis in Lung Cancer and Pulmonary Metastasis. <i>Clinical and Translational Imaging</i> , <b>2014</b> , 2, 427-437	2	14
86	Quantifying uncertainties in the microvascular transport of nanoparticles. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2014</b> , 13, 515-26	3.8	21
85	Vascular deposition patterns for nanoparticles in an inflamed patient-specific arterial tree. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2014</b> , 13, 585-97	3.8	33
84	Engineered magnetic hybrid nanoparticles with enhanced relaxivity for tumor imaging. <i>Biomaterials</i> , <b>2013</b> , 34, 7725-32	15.6	48
83	Rosiglitazone-loaded nanospheres for modulating macrophage-specific inflammation in obesity. <i>Journal of Controlled Release</i> , <b>2013</b> , 170, 460-8	11.7	34
82	Design maps for scaffold constructs in bone regeneration. <i>Biomedical Microdevices</i> , <b>2013</b> , 15, 1005-13	3.7	6
81	Immersed Molecular Electrokinetic Finite Element Method for Nano-devices in Biotechnology and Gene Delivery. <i>Lecture Notes in Computational Science and Engineering</i> , <b>2013</b> , 67-74	0.3	2
80	On Computational Modeling in Tumor Growth. <i>Archives of Computational Methods in Engineering</i> , <b>2013</b> , 20, 327-352	7.8	35
79	A multiphase model for three-dimensional tumor growth. <i>New Journal of Physics</i> , <b>2013</b> , 15, 015005	2.9	97
78	In silico vascular modeling for personalized nanoparticle delivery. <i>Nanomedicine</i> , <b>2013</b> , 8, 343-57	5.6	54

77	siRNA-chitosan complexes in poly(lactic-co-glycolic acid) nanoparticles for the silencing of aquaporin-1 in cancer cells. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 3186-94	5.6	21
76	Engineering discoidal polymeric nanoconstructs with enhanced magneto-optical properties for tumor imaging. <i>Biomaterials</i> , <b>2013</b> , 34, 5402-10	15.6	33
75	A physical sciences network characterization of non-tumorigenic and metastatic cells. <i>Scientific Reports</i> , <b>2013</b> , 3, 1449	4.9	113
74	Selective modulation of cell response on engineered fractal silicon substrates. <i>Scientific Reports</i> , <b>2013</b> , 3, 1461	4.9	30
73	Patient-specific computational modeling and magnetic nanoconstructs: tools for maximizing the efficacy of stem cell-based therapies. <i>Methodist DeBakey Cardiovascular Journal</i> , <b>2013</b> , 9, 223-8	2.1	1
72	Regenerative medicine in cardiovascular disease: introduction. <i>Methodist DeBakey Cardiovascular Journal</i> , <b>2013</b> , 9, 186	2.1	0
71	Transient adhesion mediated by ligand-receptor interaction on surfaces of variable nanotopography. <i>International Journal of Nanotechnology</i> , <b>2013</b> , 10, 404	1.5	3
70	On the near-wall accumulation of injectable particles in the microcirculation: smaller is not better. <i>Scientific Reports</i> , <b>2013</b> , 3, 2079	4.9	128
69	A computational model for predicting nanoparticle accumulation in tumor vasculature. <i>PLoS ONE</i> , <b>2013</b> , 8, e56876	3.7	78
68	Design maps for the hyperthermic treatment of tumors with superparamagnetic nanoparticles. <i>PLoS ONE</i> , <b>2013</b> , 8, e57332	3.7	76
67	The preferential targeting of the diseased microvasculature by disk-like particles. <i>Biomaterials</i> , <b>2012</b> , 33, 5504-13	15.6	119
66	Rapid tumorigenic accumulation of systemically injected plateloid particles and their biodistribution. <i>Journal of Controlled Release</i> , <b>2012</b> , 158, 148-55	11.7	159
65	Differential cell adhesion on mesoporous silicon substrates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 2903-11	9.5	59
64	Enhanced MRI relaxivity of Gd(3+) -based contrast agents geometrically confined within porous nanoconstructs. <i>Contrast Media and Molecular Imaging</i> , <b>2012</b> , 7, 501-8	3.2	42
63	Multiscale Modeling for the Vascular Transport of Nanoparticles <b>2012</b> , 437-459		2
62	Discoidal Porous Silicon Particles: Fabrication and Biodistribution in Breast Cancer Bearing Mice. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 4225-4235	15.6	160
61	Drug Delivery: Discoidal Porous Silicon Particles: Fabrication and Biodistribution in Breast Cancer Bearing Mice (Adv. Funct. Mater. 20/2012). <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 4186-4186	15.6	6
60	Modulating the vascular behavior of metastatic breast cancer cells by curcumin treatment. <i>Frontiers in Oncology</i> , <b>2012</b> , 2, 161	5.3	21



59	Tumor growth modeling from the perspective of multiphase porous media mechanics. <i>MCB Molecular and Cellular Biomechanics</i> , <b>2012</b> , 9, 193-212	1.2	7
58	Probing the mechanical properties of TNF- $\beta$ -stimulated endothelial cell with atomic force microscopy. <i>International Journal of Nanomedicine</i> , <b>2011</b> , 6, 179-95	7.3	36
57	Optimizing particle size for targeting diseased microvasculature: from experiments to artificial neural networks. <i>International Journal of Nanomedicine</i> , <b>2011</b> , 6, 1517-26	7.3	24
56	A finite element formulation for the doublet mechanics modeling of microstructural materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2011</b> , 200, 1446-1454	5.7	21
55	Nanoporous- micropatterned- superhydrophobic surfaces as harvesting agents for few low molecular weight molecules. <i>Microelectronic Engineering</i> , <b>2011</b> , 88, 1749-1752	2.5	16
54	Fractal structure can explain the increased hydrophobicity of nanoporous silicon films. <i>Microelectronic Engineering</i> , <b>2011</b> , 88, 2537-2540	2.5	48
53	A doublet mechanics model for the ultrasound characterization of malignant tissues. <i>Journal of Biomedical Science and Engineering</i> , <b>2011</b> , 04, 362-374	0.7	14
52	Geometrical confinement of gadolinium-based contrast agents in nanoporous particles enhances T1 contrast. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 815-21	28.7	335
51	Geometrical Anisotropy in Biphasic Particle Reinforced Composites. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2010</b> , 77,	2.7	2
50	On the synergistic effects of ligand-mediated and phage-intrinsic properties during in vivo selection. <i>Advances in Genetics</i> , <b>2010</b> , 69, 115-33	3.3	2
49	An integrated approach for the rational design of nanovectors for biomedical imaging and therapy. <i>Advances in Genetics</i> , <b>2010</b> , 69, 31-64	3.3	43
48	Enabling individualized therapy through nanotechnology. <i>Pharmacological Research</i> , <b>2010</b> , 62, 57-89	10.2	151
47	Size and shape effects in the biodistribution of intravascularly injected particles. <i>Journal of Controlled Release</i> , <b>2010</b> , 141, 320-7	11.7	720
46	Nanoparticles for Cancer Detection and Therapy <b>2010</b> , 51		5
45	Modulating cellular adhesion through nanotopography. <i>Biomaterials</i> , <b>2010</b> , 31, 173-9	15.6	110
44	Cells preferentially grow on rough substrates. <i>Biomaterials</i> , <b>2010</b> , 31, 7205-12	15.6	201
43	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
42	Ultra low concentrated molecular detection using super hydrophobic surface based biophotonic devices. <i>Microelectronic Engineering</i> , <b>2010</b> , 87, 798-801	2.5	62

41	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
40	Nanotechnology for breast cancer therapy. <i>Biomedical Microdevices</i> , <b>2009</b> , 11, 49-63	3.7	105
39	Intravascular delivery of particulate systems: does geometry really matter?. <i>Pharmaceutical Research</i> , <b>2009</b> , 26, 235-43	4.5	481
38	Design of bio-mimetic particles with enhanced vascular interaction. <i>Journal of Biomechanics</i> , <b>2009</b> , 42, 1885-90	2.9	81
37	The association of silicon microparticles with endothelial cells in drug delivery to the vasculature. <i>Biomaterials</i> , <b>2009</b> , 30, 2440-8	15.6	145
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28	The role of specific and non-specific interactions in receptor-mediated endocytosis of nanoparticles. <i>Biomaterials</i> , <b>2007</b> , 28, 2915-22	15.6	209
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