

Sabato Fusco

List of Publications by Year in descending order

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45
papers

1,685
citations

304701

22
h-index

289230

40
g-index

46
all docs

46
docs citations

46
times ranked

3095
citing authors

#	ARTICLE	IF	CITATIONS
1	Perspectives on: PEO-PPO-PEO Triblock Copolymers and their Biomedical Applications. <i>Journal of Bioactive and Compatible Polymers</i> , 2006, 21, 149-164.	2.1	143
2	Reprogramming normal cells into tumour precursors requires ECM stiffness and oncogene-mediated changes of cell mechanical properties. <i>Nature Materials</i> , 2020, 19, 797-806.	27.5	140
3	Ribonuclease/angiogenin inhibitor 1 regulates stress-induced subcellular localization of angiogenin and controls its growth and survival activities. <i>Journal of Cell Science</i> , 2013, 126, 4308-19.	2.0	95
4	Shuttle-mediated Nanoparticle Delivery to the Blood-Brain Barrier. <i>Small</i> , 2013, 9, 853-862.	10.0	87
5	Energy independent uptake and release of polystyrene nanoparticles in primary mammalian cell cultures. <i>Experimental Cell Research</i> , 2015, 330, 240-247.	2.6	78
6	Biocompatibility, uptake and endocytosis pathways of polystyrene nanoparticles in primary human renal epithelial cells. <i>Journal of Biotechnology</i> , 2015, 193, 3-10.	3.8	75
7	Effect of serum proteins on polystyrene nanoparticle uptake and intracellular trafficking in endothelial cells. <i>Journal of Nanoparticle Research</i> , 2011, 13, 4295-4309.	1.9	74
8	Transport across the cell-membrane dictates nanoparticle fate and toxicity: a new paradigm in nanotoxicology. <i>Nanoscale</i> , 2014, 6, 10264-10273.	5.6	73
9	Injectable Thermally Responsive Mucoadhesive Gel for Sustained Protein Delivery. <i>Biomacromolecules</i> , 2011, 12, 28-33.	5.4	71
10	Structural and Mechanical Properties of UV-Photo-Cross-Linked Poly(N-vinyl-2-pyrrolidone) Hydrogels. <i>Biomacromolecules</i> , 2008, 9, 231-240.	5.4	69
11	Crosstalk between focal adhesions and material mechanical properties governs cell mechanics and functions. <i>Acta Biomaterialia</i> , 2015, 23, 63-71.	8.3	67
12	Particle tracking by full-field complex wavefront subtraction in digital holography microscopy. <i>Lab on A Chip</i> , 2014, 14, 1129-1134.	6.0	66
13	Cell mechanosensing is regulated by substrate strain energy rather than stiffness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22004-22013.	7.1	60
14	Viscosity measurements on micron-size scale using optical tweezers. <i>Review of Scientific Instruments</i> , 2005, 76, 115105.	1.3	58
15	Combination therapy for the treatment of pancreatic cancer through hyaluronic acid-decorated nanoparticles loaded with quercetin and gemcitabine: A preliminary in vitro study. <i>Journal of Cellular Physiology</i> , 2019, 234, 4959-4969.	4.1	52
16	3D is not enough: Building up a cell instructive microenvironment for tumoral stroma microtissues. <i>Acta Biomaterialia</i> , 2017, 47, 1-13.	8.3	41
17	Y-box Binding Protein 1 Is Part of a Complex Molecular Network Linking Np63 to the PI3K/akt Pathway in Cutaneous Squamous Cell Carcinoma. <i>Journal of Cellular Physiology</i> , 2015, 230, 2067-2074.	4.1	36
18	Polystyrene nanoparticles affect <i>Xenopus laevis</i> development. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	35

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19	New Insights into the Mechanisms of the Interactions Between Doxorubicin and the Ion-Exchange Hydrogel DC Bead [®] for Use in Transarterial Chemoembolization (TACE). <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 333-354.	3.5	33
20	Ligand engagement on material surfaces is discriminated by cell mechanosensing. <i>Biomaterials</i> , 2015, 45, 72-80.	11.4	33
21	Investigation of the mechanisms governing doxorubicin and irinotecan release from drug-eluting beads: mathematical modeling and experimental verification. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 2359-2370.	3.6	31
22	Mechanical phenotyping of cells and extracellular matrix as grade and stage markers of lung tumor tissues. <i>Acta Biomaterialia</i> , 2017, 57, 334-341.	8.3	30
23	Investigation on specific solutions of Gerchberg's "Saxton algorithm. <i>Optics and Lasers in Engineering</i> , 2014, 52, 206-211.	3.8	20
24	TraceME: Traceability Management in Eclipse. , 2012, , .		19
25	ECM Mechano-Sensing Regulates Cytoskeleton Assembly and Receptor-Mediated Endocytosis of Nanoparticles. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1586-1594.	5.2	19
26	Mechanosensing of substrate stiffness regulates focal adhesions dynamics in cell. <i>Meccanica</i> , 2017, 52, 3389-3398.	2.0	18
27	High frequency viscoelastic behaviour of low molecular weight hyaluronic acid water solutions. <i>Biorheology</i> , 2007, 44, 403-18.	0.4	18
28	Stimuli-responsive chitosan/poly (N-isopropylacrylamide) semi-interpenetrating polymer networks: effect of pH and temperature on their rheological and swelling properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 109.	3.6	17
29	Adhesion and Migration Response to Radiation Therapy of Mammary Epithelial and Adenocarcinoma Cells Interacting with Different Stiffness Substrates. <i>Cancers</i> , 2020, 12, 1170.	3.7	17
30	Drug micro-carriers with a hyaluronic acid corona toward a diffusion-limited aggregation within the vitreous body. <i>Carbohydrate Polymers</i> , 2019, 220, 185-190.	10.2	15
31	Surface decoration with gH625-membranotropic peptides as a method to escape the endo-lysosomal compartment and reduce nanoparticle toxicity. <i>Nanotechnology</i> , 2015, 26, 415101.	2.6	14
32	X-rays effects on cytoskeleton mechanics of healthy and tumor cells. <i>Cytoskeleton</i> , 2017, 74, 40-52.	2.0	14
33	Nanomechanics of a fibroblast suspended using point-like anchors reveal cytoskeleton formation. <i>RSC Advances</i> , 2016, 6, 24245-24249.	3.6	11
34	X-RAY IRRADIATION AFFECTS MORPHOLOGY, PROLIFERATION AND MIGRATION RATE OF HEALTHY AND CANCER CELLS. <i>Journal of Mechanics in Medicine and Biology</i> , 2015, 15, 1540022.	0.7	10
35	Cytoskeleton Response to Ionizing Radiation: A Brief Review on Adhesion and Migration Effects. <i>Biomedicines</i> , 2021, 9, 1102.	3.2	10
36	Toxic effects of SiO ₂ NPs in early embryogenesis of <i>Xenopus laevis</i> . <i>Chemosphere</i> , 2022, 289, 133233.	8.2	9

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37	Morphological and Rheological Guided Design for the Microencapsulation Process of <i>Lactobacillus paracasei</i> CBA L74 in Calcium Alginate Microspheres. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 660691.	4.1	8
38	ECM Mechanoregulation in Malignant Pleural Mesothelioma. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 797900.	4.1	5
39	Preliminary studies on noncovalent hyperbranched polymers based on PNA and DNA building blocks. <i>Journal of Peptide Science</i> , 2009, 15, 647-653.	1.4	4
40	A BIOPHYSICAL ANALYSIS TO ASSESS X-RAY SENSITIVITY OF HEALTHY AND TUMOUR CELLS. <i>Radiation Protection Dosimetry</i> , 2019, 183, 116-120.	0.8	3
41	Drug Delivery: Shuttle-Mediated Nanoparticle Delivery to the Blood-Brain Barrier (<i>Small</i> 6/2013). <i>Small</i> , 2013, 9, 806-806.	10.0	2
42	Investigation of Biophysical Migration Parameters for Normal Tissue and Metastatic Cancer Cells After Radiotherapy Treatment. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	2
43	Investigation on cytoskeleton dynamics for non-adherent cells under point-like stimuli. , 2015, , .		1
44	Micro and Macro Characterization of PEO-PPG-PEO Triblocks Hydrogels. <i>Macromolecular Symposia</i> , 2008, 266, 92-95.	0.7	0
45	Investigation on cytoskeleton dynamics for no-adherent cells subjected to point-like stimuli by digital holographic microscopy and holographic optical trapping. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0