

Daniela Guarnieri

List of Publications by Year in descending order

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63
papers

2,473
citations

172207

29
h-index

205818

48
g-index

63
all docs

63
docs citations

63
times ranked

4250
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of matrix composition of 3D constructs on embryonic stem cell differentiation. <i>Biomaterials</i> , 2005, 26, 6194-6207.	5.7	237
2	Laser Ablation as a Versatile Tool To Mimic Polyethylene Terephthalate Nanoplastic Pollutants: Characterization and Toxicology Assessment. <i>ACS Nano</i> , 2018, 12, 7690-7700.	7.3	208
3	Covalently immobilized RGD gradient on PEG hydrogel scaffold influences cell migration parameters. <i>Acta Biomaterialia</i> , 2010, 6, 2532-2539.	4.1	141
4	Surface Investigation on Biomimetic Materials to Control Cell Adhesion: The Case of RGD Conjugation on PCL. <i>Langmuir</i> , 2010, 26, 9875-9884.	1.6	100
5	Effect of Micro- and Macroporosity of Bone Tissue Three-Dimensional-Poly(ϵ -Caprolactone) Scaffold on Human Mesenchymal Stem Cells Invasion, Proliferation, and Differentiation <i>In Vitro</i> . <i>Tissue Engineering - Part A</i> , 2010, 16, 2661-2673.	1.6	95
6	Shuttle-mediated Nanoparticle Delivery to the Blood-Brain Barrier. <i>Small</i> , 2013, 9, 853-862.	5.2	87
7	Energy independent uptake and release of polystyrene nanoparticles in primary mammalian cell cultures. <i>Experimental Cell Research</i> , 2015, 330, 240-247.	1.2	78
8	Biocompatibility, uptake and endocytosis pathways of polystyrene nanoparticles in primary human renal epithelial cells. <i>Journal of Biotechnology</i> , 2015, 193, 3-10.	1.9	75
9	Effect of serum proteins on polystyrene nanoparticle uptake and intracellular trafficking in endothelial cells. <i>Journal of Nanoparticle Research</i> , 2011, 13, 4295-4309.	0.8	74
10	A peptide derived from herpes simplex virus type 1 glycoprotein H: membrane translocation and applications to the delivery of quantum dots. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 925-934.	1.7	73
11	Transport across the cell-membrane dictates nanoparticle fate and toxicity: a new paradigm in nanotoxicology. <i>Nanoscale</i> , 2014, 6, 10264-10273.	2.8	73
12	Fez1/Lzts1 Absence Impairs Cdk1/Cdc25C Interaction during Mitosis and Predisposes Mice to Cancer Development. <i>Cancer Cell</i> , 2007, 11, 275-289.	7.7	67
13	3D breast cancer microtissue reveals the role of tumor microenvironment on the transport and efficacy of free-doxorubicin in vitro. <i>Acta Biomaterialia</i> , 2018, 75, 200-212.	4.1	63
14	Clickable Functionalization of Liposomes with the gH625 Peptide from Herpes simplex Virus Type-1 for Intracellular Drug Delivery. <i>Chemistry - A European Journal</i> , 2011, 17, 12659-12668.	1.7	57
15	Shuttle-mediated nanoparticle transport across an in vitro brain endothelium under flow conditions. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1087-1095.	1.7	51
16	Engineered 1/4-bimodal poly(μ -caprolactone) porous scaffold for enhanced hMSC colonization and proliferation. <i>Acta Biomaterialia</i> , 2009, 5, 1082-1093.	4.1	49
17	Fluorescent salen-type Zn(II) Complexes As Probes for Detecting Hydrogen Sulfide and Its Anion: Bioimaging Applications. <i>Inorganic Chemistry</i> , 2020, 59, 15977-15986.	1.9	49
18	Effect of silica nanoparticles with variable size and surface functionalization on human endothelial cell viability and angiogenic activity. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	45

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19	Biotransformation and Biological Interaction of Graphene and Graphene Oxide during Simulated Oral Ingestion. <i>Small</i> , 2018, 14, e1800227.	5.2	42
20	Effects of fibronectin and laminin on structural, mechanical and transport properties of 3D collagenous network. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 245-253.	1.7	39
21	Enhanced Drug Delivery into Cell Cytosol via Glycoprotein H-Derived Peptide Conjugated Nanoemulsions. <i>ACS Nano</i> , 2017, 11, 9802-9813.	7.3	36
22	Dynamics of nanoparticle diffusion and uptake in three-dimensional cell cultures. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 149, 7-15.	2.5	35
23	PMA-Induced THP-1 Macrophage Differentiation is Not Impaired by Citrate-Coated Platinum Nanoparticles. <i>Nanomaterials</i> , 2017, 7, 332.	1.9	34
24	Ligand engagement on material surfaces is discriminated by cell mechanosensing. <i>Biomaterials</i> , 2015, 45, 72-80.	5.7	33
25	Mechanical behavior of bioactive poly(ethylene glycol) diacrylate matrices for biomedical application. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103885.	1.5	33
26	Toxicological Properties of Nanoparticles of Organic Compounds (NOC) from Flames and Vehicle Exhausts. <i>Environmental Science & Technology</i> , 2009, 43, 2608-2613.	4.6	32
27	3D tumor microtissues as an in vitro testing platform for microenvironmentally-triggered drug delivery systems. <i>Acta Biomaterialia</i> , 2017, 57, 47-58.	4.1	32
28	Diffusion limited green synthesis of ultra-small gold nanoparticles at room temperature. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 558, 548-557.	2.3	30
29	From square to circular polymeric microchannels by spin coating technology: a low cost platform for endothelial cell culture. <i>Biofabrication</i> , 2016, 8, 025005.	3.7	29
30	Antiangiogenic Effect of Graphene Oxide in Primary Human Endothelial Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22507-22518.	4.0	29
31	Multilayered silica-biopolymer nanocapsules with a hydrophobic core and a hydrophilic tunable shell thickness. <i>Nanoscale</i> , 2016, 8, 8798-8809.	2.8	28
32	Tumor-activated prodrug (TAP)-conjugated nanoparticles with cleavable domains for safe doxorubicin delivery. <i>Biotechnology and Bioengineering</i> , 2015, 112, 601-611.	1.7	24
33	RGD-chitosan Selective Pro-Apoptotic Peptide as Potential Carrier for Drug Delivery into Melanoma Metastatic Cells. <i>PLoS ONE</i> , 2014, 9, e106441.	1.1	24
34	Sub-100 nm biodegradable nanoparticles: in vitro release features and toxicity testing in 2D and 3D cell cultures. <i>Nanotechnology</i> , 2013, 24, 045101.	1.3	23
35	Particle size affects the cytosolic delivery of membranotropic peptide-functionalized platinum nanozymes. <i>Nanoscale</i> , 2017, 9, 11288-11296.	2.8	23
36	Fluorescent (rhodamine), folate decorated and doxorubicin charged, PEGylated nanoparticles synthesis. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 1697-1704.	1.7	22

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37	Binary system thermodynamics to control pore architecture of PCL scaffold via temperature-driven phase separation process. <i>Journal of Biomaterials Applications</i> , 2012, 27, 241-254.	1.2	21
38	Cell recruitment and transfection in gene activated collagen matrix. <i>Biomaterials</i> , 2010, 31, 570-576.	5.7	20
39	gH625 is a viral derived peptide for effective delivery of intrinsically disordered proteins. <i>International Journal of Nanomedicine</i> , 2013, 8, 2555.	3.3	20
40	ECM Mechano-Sensing Regulates Cytoskeleton Assembly and Receptor-Mediated Endocytosis of Nanoparticles. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1586-1594.	2.6	19
41	Engineering of Covalently Immobilized Gradients of RGD Peptides on Hydrogel Scaffolds: Effect on Cell Behaviour. <i>Macromolecular Symposia</i> , 2008, 266, 36-40.	0.4	18
42	Biocompatible nanoparticles sensing the matrix metallo-proteinase 2 for the on-demand release of anticancer drugs in 3D tumor spheroids. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 707-716.	2.5	18
43	Design, Synthesis and Characterization of Novel Co-Polymers Decorated with Peptides for the Selective Nanoparticle Transport across the Cerebral Endothelium. <i>Molecules</i> , 2018, 23, 1655.	1.7	18
44	Design of novel 3D gene activated PEG scaffolds with ordered pore structure. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 1013-1020.	1.7	16
45	Biostability enhancement of oil core " polysaccharide multilayer shell via photoinitiator free thiol-ene "click"™ reaction. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 142, 281-289.	2.5	16
46	Bioinspired Oil Core/Silica Shell Nanocarriers with Tunable and Multimodal Functionalities. <i>Advanced Healthcare Materials</i> , 2015, 4, 2688-2698.	3.9	14
47	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.	1.3	14
48	Association Mechanism of Peptide-Coated Metal Nanoparticles with Model Membranes: A Coarse-Grained Study. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 4512-4523.	2.3	13
49	Biotransformation of Silver Nanoparticles into Oro-Gastrointestinal Tract by Integrated In Vitro Testing Assay: Generation of Exposure-Dependent Physical Descriptors for Nanomaterial Grouping. <i>Nanomaterials</i> , 2021, 11, 1587.	1.9	13
50	Imidazo-pyridine-based Zinc (II) complexes as fluorescent hydrogen sulfide probes.. <i>Dalton Transactions</i> , 2021, 50, 17075-17085.	1.6	13
51	Energetics of ligand-receptor binding affinity on endothelial cells: An in vitro model. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 144, 250-256.	2.5	12
52	Fabrication of a modular hybrid chip to mimic endothelial-lined microvessels in flow conditions. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 035014.	1.5	9
53	Gene-activated and cell-migration guiding PEG matrices based on three dimensional patterning of RGD peptides and DNA complexes. <i>Acta Biomaterialia</i> , 2012, 8, 3228-3240.	4.1	8
54	Boosting the therapeutic efficiency of nanovectors: exocytosis engineering. <i>Nanoscale</i> , 2017, 9, 3757-3765.	2.8	8

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55	A Method for Evaluating Nanoparticle Transport Through the Bloodâ€“Brain Barrier In Vitro. <i>Methods in Molecular Biology</i> , 2014, 1141, 185-199.	0.4	8
56	Confined Gelatin Dehydration as a Viable Route To Go Beyond Micromilling Resolution and Miniaturize Biological Assays. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12075-12081.	4.0	7
57	In Vitro Bloodâ€“Brain Barrier Models for Nanomedicine: Particle-Specific Effects and Methodological Drawbacks. <i>ACS Applied Bio Materials</i> , 2019, 2, 3279-3289.	2.3	7
58	Paper-Strip-Based Sensors for H2S Detection: A Proof-of-Principle Study. <i>Sensors</i> , 2022, 22, 3173.	2.1	5
59	Drug Delivery: Shuttleâ€“Mediated Nanoparticle Delivery to the Bloodâ€“Brain Barrier (<i>Small</i> 6/2013). <i>Small</i> , 2013, 9, 806-806.	5.2	2
60	Graphene Biotransformation: Biotransformation and Biological Interaction of Graphene and Graphene Oxide during Simulated Oral Ingestion (<i>Small</i> 24/2018). <i>Small</i> , 2018, 14, 1870113.	5.2	2
61	Multilayered Nanocarrier Systems: Bioinspired Oil Core/Silica Shell Nanocarriers with Tunable and Multimodal Functionalities (<i>Adv. Healthcare Mater.</i> 17/2015). <i>Advanced Healthcare Materials</i> , 2015, 4, 2736-2736.	3.9	1
62	Design and optimization of polymer nanoshuttles for nanomedicine. , 2015, , .		1
63	Role of Spatial Distribution of Matricellular Cues in Controlling Cell Functions. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2010, , 207-232.	0.5	0