

Balaji Sitharaman

List of Publications by Year in descending order

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93
papers

6,882
citations

71102

41
h-index

58581

82
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94
all docs

94
docs citations

94
times ranked

8391
citing authors

#	ARTICLE	IF	CITATIONS
1	Delivery of long chain C ₁₆ and C ₂₄ ceramide in HeLa cells using oxidized graphene nanoribbons. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 1141-1156.	3.4	6
2	Nanofilm generated non-pharmacological anabolic bone stimulus. Journal of Biomedical Materials Research - Part A, 2020, 108, 178-186.	4.0	5
3	Two-dimensional graphene oxide-reinforced porous biodegradable polymeric nanocomposites for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2019, 107, 1143-1153.	4.0	20
4	Oxidized graphene nanoparticles as a delivery system for the pro-apoptotic sphingolipid C ₆ ceramide. Journal of Biomedical Materials Research - Part A, 2019, 107, 25-37.	4.0	10
5	Osteogenic differentiation of human adipose derived stem cells on chemically crosslinked carbon nanomaterial coatings. Journal of Biomedical Materials Research - Part A, 2018, 106, 1189-1199.	4.0	4
6	<i>In Vitro</i> Bioactivity of One- and Two-Dimensional Nanoparticle-Incorporated Bone Tissue Engineering Scaffolds. Tissue Engineering - Part A, 2018, 24, 641-652.	3.1	14
7	Boron nitride nanotubes and nanoplatelets as reinforcing agents of polymeric matrices for bone tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 406-419.	3.4	49
8	Layer-by-layer, ultrasonic spray assembled 2D and 3D chemically crosslinked carbon nanotubes and graphene. Journal of Materials Research, 2017, 32, 370-382.	2.6	6
9	Gene delivery to mammalian cells using a graphene nanoribbon platform. Journal of Materials Chemistry B, 2017, 5, 2347-2354.	5.8	32
10	Three-dimensional carbon nanotube scaffolds for long-term maintenance and expansion of human mesenchymal stem cells. Journal of Biomedical Materials Research - Part A, 2017, 105, 1927-1939.	4.0	15
11	<i>In Vivo</i> Hard and Soft Tissue Response of Two-Dimensional Nanoparticle Incorporated Biodegradable Polymeric Scaffolds. ACS Biomaterials Science and Engineering, 2017, 3, 2533-2541.	5.2	8
12	Three-dimensional macroporous graphene scaffolds for tissue engineering. Journal of Biomedical Materials Research - Part A, 2017, 105, 73-83.	4.0	19
13	Graphene Nanoribbon-Based Platform for Highly Efficacious Nuclear Gene Delivery. ACS Biomaterials Science and Engineering, 2016, 2, 798-808.	5.2	21
14	Two- and Three-Dimensional All-Carbon Nanomaterial Assemblies for Tissue Engineering and Regenerative Medicine. Annals of Biomedical Engineering, 2016, 44, 2020-2035.	2.5	34
15	Toxicology of graphene-based nanomaterials. Advanced Drug Delivery Reviews, 2016, 105, 109-144.	13.7	235
16	Safety and efficacy of a high-performance graphene-based magnetic resonance imaging contrast agent for renal abnormalities. Graphene Technology, 2016, 1, 17-28.	1.9	2
17	Nanoparticle-Facilitated Membrane Depolarization-Induced Receptor Activation: Implications on Cellular Uptake and Drug Delivery. ACS Biomaterials Science and Engineering, 2016, 2, 2153-2161.	5.2	3
18	Sulfobutyl ether β -cyclodextrin (Captisol [®]) and methyl β -cyclodextrin enhance and stabilize fluorescence of aqueous indocyanine green. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 1457-1464.	3.4	9

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19	Graphene-based platforms for cancer therapeutics. <i>Therapeutic Delivery</i> , 2016, 7, 101-116.	2.2	66
20	Towards An Advanced Graphene-Based Magnetic Resonance Imaging Contrast Agent: Sub-acute Toxicity and Efficacy Studies in Small Animals. <i>Scientific Reports</i> , 2015, 5, 17182.	3.3	27
21	<i>In vitro</i> cytocompatibility of one-dimensional and two-dimensional nanostructure-reinforced biodegradable polymeric nanocomposites. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 2309-2321.	4.0	33
22	Porous three-dimensional carbon nanotube scaffolds for tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3212-3225.	4.0	61
23	Interaction of graphene nanoribbons with components of the blood vascular system. <i>Future Science OA</i> , 2015, 1, .	1.9	18
24	Fabrication and Cytocompatibility of In Situ Crosslinked Carbon Nanomaterial Films. <i>Scientific Reports</i> , 2015, 5, 10261.	3.3	18
25	Interactions of 1D- and 2D-layered inorganic nanoparticles with fibroblasts and human mesenchymal stem cells. <i>Nanomedicine</i> , 2015, 10, 1693-1706.	3.3	22
26	Graphene nanoribbons as a drug delivery agent for lucanthone mediated therapy of glioblastoma multiforme. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 109-118.	3.3	95
27	Functionalized carbon nanotube theranostic agents for microwave diagnostic imaging and thermal therapy of tumors. , 2014, , .		3
28	Multimodal Ultrasound-Photoacoustic Imaging of Tissue Engineering Scaffolds and Blood Oxygen Saturation In and Around the Scaffolds. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 440-449.	2.1	41
29	Quantification of single-cell nanoparticle concentrations and the distribution of these concentrations in cell population. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20131152.	3.4	26
30	Clinically Relevant CNT Dispersions With Exceptionally High Dielectric Properties for Microwave Theranostic Applications. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 2718-2723.	4.2	12
31	Structural disruption increases toxicity of graphene nanoribbons. <i>Journal of Applied Toxicology</i> , 2014, 34, 1235-1246.	2.8	41
32	The effects of graphene nanostructures on mesenchymal stem cells. <i>Biomaterials</i> , 2014, 35, 4863-4877.	11.4	209
33	Degradation of Graphene by Hydrogen Peroxide. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 745-750.	2.3	74
34	Enzymatic degradation of oxidized and reduced graphene nanoribbons by lignin peroxidase. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6354-6362.	5.8	90
35	Synthesis, characterization, in vitro phantom imaging, and cytotoxicity of a novel graphene-based multimodal magnetic resonance imaging-X-ray computed tomography contrast agent. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3519-3530.	5.8	95
36	Graphene nanoribbons elicit cell specific uptake and delivery via activation of epidermal growth factor receptor enhanced by human papillomavirus E5 protein. <i>Acta Biomaterialia</i> , 2014, 10, 4494-4504.	8.3	28

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37	Vasoactive effects of stable aqueous suspensions of single walled carbon nanotubes in hamsters and mice. <i>Nanotoxicology</i> , 2014, 8, 867-875.	3.0	12
38	Dose ranging, expanded acute toxicity and safety pharmacology studies for intravenously administered functionalized graphene nanoparticle formulations. <i>Biomaterials</i> , 2014, 35, 7022-7031.	11.4	115
39	Toward single-walled carbon nanotube-gadolinium complex as advanced MRI contrast agents: Pharmacodynamics and global genomic response in small animals. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 1039-1049.	3.4	26
40	Cytotoxicity of Polypropylene Fumarate Nanocomposites used in Bone Tissue Engineering. , 2013, , .		2
41	Graphene-based contrast agents for photoacoustic and thermoacoustic tomography. <i>Photoacoustics</i> , 2013, 1, 62-67.	7.8	104
42	Tungsten disulfide nanotubes reinforced biodegradable polymers for bone tissue engineering. <i>Acta Biomaterialia</i> , 2013, 9, 8365-8373.	8.3	143
43	Effect of synthesis and acid purification methods on the microwave dielectric properties of single-walled carbon nanotube aqueous dispersions. <i>Applied Physics Letters</i> , 2013, 103, 133114.	3.3	11
44	Fabrication and characterization of three-dimensional macroscopic all-carbon scaffolds. <i>Carbon</i> , 2013, 53, 90-100.	10.3	72
45	Two-Dimensional Nanostructure-Reinforced Biodegradable Polymeric Nanocomposites for Bone Tissue Engineering. <i>Biomacromolecules</i> , 2013, 14, 900-909.	5.4	262
46	Cell specific cytotoxicity and uptake of graphene nanoribbons. <i>Biomaterials</i> , 2013, 34, 283-293.	11.4	265
47	MULTIFUNCTIONAL FULLERENE- AND METALLOFULLERENE-BASED NANOBOMATERIALS. <i>Nano LIFE</i> , 2013, 03, 1342003.	0.9	52
48	In vivo microwave dielectric spectroscopy of breast tumor xenografts with intra-tumoral injections of SWCNT dispersions. , 2013, , .		2
49	The magnetic, relaxometric, and optical properties of gadolinium-catalyzed single walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2013, 113, 134308.	2.5	28
50	Cytotoxicity, cytocompatibility, cell-labeling efficiency, and <i>in vitro</i> cellular magnetic resonance imaging of gadolinium-catalyzed single-walled carbon nanotubes. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 3580-3591.	4.0	31
51	In Vitro Hematological and In Vivo Vasoactivity Assessment of Dextran Functionalized Graphene. <i>Scientific Reports</i> , 2013, 3, 2584.	3.3	61
52	Physicochemical characterization of a novel graphene-based magnetic resonance imaging contrast agent. <i>International Journal of Nanomedicine</i> , 2013, 8, 2821.	6.7	95
53	Multiscale Photoacoustic Microscopy of Single-Walled Carbon Nanotube-Incorporated Tissue Engineering Scaffolds. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 310-317.	2.1	48
54	Physicochemical Characterization, and Relaxometry Studies of Micro-Graphite Oxide, Graphene Nanoplatelets, and Nanoribbons. <i>PLoS ONE</i> , 2012, 7, e38185.	2.5	57

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55	Carbon Nanotechnology in Regenerative Medicine. World Scientific Series on Carbon Nanoscience, 2012, , 107-150.	0.1	2
56	Nanotechnology in Tissue Engineering and Regenerative Medicine. Tissue Engineering - Part B: Reviews, 2012, 18, 76-76.	4.8	1
57	Detection, Mapping, and Quantification of Single Walled Carbon Nanotubes in Histological Specimens with Photoacoustic Microscopy. PLoS ONE, 2012, 7, e35064.	2.5	35
58	Luminescent single-walled carbon nanotube-sensitized europium nanoprobes for cellular imaging. International Journal of Nanomedicine, 2012, 7, 1953.	6.7	22
59	Time-resolved red luminescence from europium-catalyzed single walled carbon nanotubes. Chemical Communications, 2011, 47, 1607-1609.	4.1	27
60	Carbon Nanotubes in Regenerative Medicine. Carbon Nanostructures, 2011, , 27-39.	0.1	9
61	Dual-mode photoacoustic microscopy of carbon nanotube incorporated scaffolds in blood and biological tissues. , 2011, , .		2
62	A Novel Nanoparticle-Enhanced Photoacoustic Stimulus for Bone Tissue Engineering. Tissue Engineering - Part A, 2011, 17, 1851-1858.	3.1	23
63	<i>In Vivo</i> Magnetic Resonance Imaging of the Distribution Pattern of Gadonanotubes Released from a Degrading Poly(Lactic-Co-Glycolic Acid) Scaffold. Tissue Engineering - Part C: Methods, 2011, 17, 19-26.	2.1	24
64	Applications of Carbon Nanotubes in Biomedical Studies. Methods in Molecular Biology, 2011, 726, 223-241.	0.9	16
65	Magnetic resonance imaging studies on gadonanotube reinforced biodegradable polymer nanocomposites. Journal of Biomedical Materials Research - Part A, 2010, 93A, 1454-1462.	4.0	23
66	Toward Carbon-Nanotube-Based Theranostic Agents for Microwave Detection and Treatment of Breast Cancer: Enhanced Dielectric and Heating Response of Tissue-Mimicking Materials. IEEE Transactions on Biomedical Engineering, 2010, 57, 1831-1834.	4.2	129
67	Recent Patents on Single-Walled Carbon Nanotubes for Biomedical Imaging, Drug Delivery and Tissue Regeneration. Recent Patents on Biomedical Engineering, 2010, 3, 86-94.	0.5	9
68	Single-walled carbon nanotube facilitated photoacoustic stimulation of marrow stromal cells towards osteoblasts. , 2009, , .		0
69	Dielectric characterization of carbon nanotube contrast agents for microwave breast cancer detection. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	10
70	Novel breast cancer detection system combining both thermoacoustic (TA) and photoacoustic (PA) tomography using carbon nanotubes (CNTs) as a dual contrast agent. Proceedings of SPIE, 2009, , .	0.8	2
71	In vivo photoacoustic (PA) mapping of sentinel lymph nodes (SLNs) using carbon nanotubes (CNTs) as a contrast agent. , 2009, , .		2
72	<i>In vivo</i> carbon nanotube-enhanced non-invasive photoacoustic mapping of the sentinel lymph node. Physics in Medicine and Biology, 2009, 54, 3291-3301.	3.0	120

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73	Single-walled carbon nanotubes as a multimodal-thermoacoustic and photoacoustic-contrast agent. <i>Journal of Biomedical Optics</i> , 2009, 14, 034018.	2.6	151
74	Gadolinium and europium catalyzed growth of single-walled carbon nanotubes. <i>Carbon</i> , 2009, 47, 3139-3142.	10.3	21
75	The Effect of Nanoparticle-Enhanced Photoacoustic Stimulation on Multipotent Marrow Stromal Cells. <i>ACS Nano</i> , 2009, 3, 2065-2072.	14.6	33
76	<i>In vitro</i> cytotoxicity of single-walled carbon nanotube/biodegradable polymer nanocomposites. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 86A, 813-823.	4.0	75
77	Synthesis and Conformational Evaluation of a Novel Gene Delivery Vector for Human Mesenchymal Stem Cells. <i>Biomacromolecules</i> , 2008, 9, 818-827.	5.4	51
78	Water-Soluble Fullerene (C ₆₀) Derivatives as Nonviral Gene-Delivery Vectors. <i>Molecular Pharmaceutics</i> , 2008, 5, 567-578.	4.6	94
79	<i>In vivo</i> biocompatibility of ultra-short single-walled carbon nanotube/biodegradable polymer nanocomposites for bone tissue engineering. <i>Bone</i> , 2008, 43, 362-370.	2.9	241
80	Gadofullerenes and Gadonanotubes: A New Paradigm for High-Performance Magnetic Resonance Imaging Contrast Agent Probes. <i>Journal of Biomedical Nanotechnology</i> , 2007, 3, 342-352.	1.1	68
81	Injectable in situ cross-linkable nanocomposites of biodegradable polymers and carbon nanostructures for bone tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 655-671.	3.5	68
82	Understanding Paramagnetic Relaxation Phenomena for Water-Soluble Gadofullerenes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5633-5639.	3.1	63
83	Gadofullerenes as nanoscale magnetic labels for cellular MRI. <i>Contrast Media and Molecular Imaging</i> , 2007, 2, 139-146.	0.8	71
84	Fabrication of porous ultra-short single-walled carbon nanotube nanocomposite scaffolds for bone tissue engineering. <i>Biomaterials</i> , 2007, 28, 4078-4090.	11.4	287
85	Gadonanotubes as new high-performance MRI contrast agents. <i>International Journal of Nanomedicine</i> , 2006, 1, 291-5.	6.7	43
86	Destroying Gadofullerene Aggregates by Salt Addition in Aqueous Solution of Gd@C ₆₀ (OH) _x and Gd@C ₆₀ [C(COOH) ₂] ₁₀ . <i>Journal of the American Chemical Society</i> , 2005, 127, 9368-9369.	13.7	119
87	Water-Soluble Gadofullerenes: Toward High-Relaxivity, pH-Responsive MRI Contrast Agents. <i>Journal of the American Chemical Society</i> , 2005, 127, 799-805.	13.7	341
88	A Fullerene-Paclitaxel Chemotherapeutic: Synthesis, Characterization, and Study of Biological Activity in Tissue Culture. <i>Journal of the American Chemical Society</i> , 2005, 127, 12508-12509.	13.7	268
89	Superparamagnetic gadonanotubes are high-performance MRI contrast agents. <i>Chemical Communications</i> , 2005, , 3915.	4.1	310
90	The Differential Cytotoxicity of Water-Soluble Fullerenes. <i>Nano Letters</i> , 2004, 4, 1881-1887.	9.1	985

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91	Nanoscale Aggregation Properties of Neuroprotective Carboxyfullerene (C3) in Aqueous Solution. Nano Letters, 2004, 4, 1759-1762.	9.1	42
92	Fullerenols Revisited as Stable Radical Anions. Journal of the American Chemical Society, 2004, 126, 12055-12064.	13.7	120
93	Gd@C60[C(COOH)2]10 and Gd@C60(OH)x: Nanoscale Aggregation Studies of Two Metallofullerene MRI Contrast Agents in Aqueous Solution. Nano Letters, 2004, 4, 2373-2378.	9.1	135