

Devika B Chithrani

List of Publications by Year in descending order

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53
papers

8,825
citations

236925

25
h-index

254184

43
g-index

53
all docs

53
docs citations

53
times ranked

12521
citing authors

#	ARTICLE	IF	CITATIONS
1	Determining the Size and Shape Dependence of Gold Nanoparticle Uptake into Mammalian Cells. <i>Nano Letters</i> , 2006, 6, 662-668.	9.1	4,242
2	Elucidating the Mechanism of Cellular Uptake and Removal of Protein-Coated Gold Nanoparticles of Different Sizes and Shapes. <i>Nano Letters</i> , 2007, 7, 1542-1550.	9.1	2,001
3	Gold Nanoparticles as Radiation Sensitizers in Cancer Therapy. <i>Radiation Research</i> , 2010, 173, 719.	1.5	547
4	Irradiation of gold nanoparticles by x-rays: Monte Carlo simulation of dose enhancements and the spatial properties of the secondary electrons production. <i>Medical Physics</i> , 2011, 38, 624-631.	3.0	215
5	Roadmap to Clinical Use of Gold Nanoparticles for Radiation Sensitization. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 94, 189-205.	0.8	182
6	Intracellular uptake, transport, and processing of gold nanostructures. <i>Molecular Membrane Biology</i> , 2010, 27, 299-311.	2.0	177
7	Cellular uptake and transport of gold nanoparticles incorporated in a liposomal carrier. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010, 6, 161-169.	3.3	152
8	Intracellular uptake, transport, and processing of nanostructures in cancer cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2009, 5, 118-127.	3.3	140
9	Gold Nanostructures as a Platform for Combinational Therapy in Future Cancer Therapeutics. <i>Cancers</i> , 2011, 3, 1081-1110.	3.7	126
10	Peptide modified gold nanoparticles for improved cellular uptake, nuclear transport, and intracellular retention. <i>Nanoscale</i> , 2014, 6, 12026-12033.	5.6	120
11	Optical spectroscopy of single, site-selected, InAs/InP self-assembled quantum dots. <i>Applied Physics Letters</i> , 2004, 84, 978-980.	3.3	87
12	Applications of Nanoparticles in Nanomedicine. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 2371-2392.	1.1	83
13	Advances in Gold Nanoparticle-Based Combined Cancer Therapy. <i>Nanomaterials</i> , 2020, 10, 1671.	4.1	60
14	Self-assembled InAs quantum dots on InP nano-templates. <i>Journal of Crystal Growth</i> , 2002, 234, 391-398.	1.5	47
15	Nanoparticles for Improved Therapeutics and Imaging in Cancer Therapy. <i>Recent Patents on Nanotechnology</i> , 2010, 4, 171-180.	1.3	46
16	Integration of Peptides for Enhanced Uptake of PEGylated Gold Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 2125-2131.	0.9	45
17	Size-Dependent Gold Nanoparticle Interaction at Nano-Micro Interface Using Both Monolayer and Multilayer (Tissue-Like) Cell Models. <i>Nano-Micro Letters</i> , 2016, 8, 44-53.	27.0	36
18	Polyethylene Glycol Functionalized Nanoparticles for Improved Cancer Treatment. <i>Reviews in Nanoscience and Nanotechnology</i> , 2014, 3, 20-30.	0.4	36

#	ARTICLE	IF	CITATIONS
19	Gold nanoparticle mediated combined cancer therapy. <i>Cancer Nanotechnology</i> , 2018, 9, .	3.7	34
20	Determining the Radiation Enhancement Effects of Gold Nanoparticles in Cells in a Combined Treatment with Cisplatin and Radiation at Therapeutic Megavoltage Energies. <i>Cancers</i> , 2018, 10, 150.	3.7	33
21	Gold nanoparticle mediated radiation response among key cell components of the tumour microenvironment for the advancement of cancer nanotechnology. <i>Scientific Reports</i> , 2020, 10, 12096.	3.3	33
22	Polyethylene Glycol Density and Length Affects Nanoparticle Uptake by Cancer Cells. <i>Journal of Nanomedicine Research</i> , 2014, 1, .	1.8	29
23	Cancer Nanotechnology: Enhanced Therapeutic Response Using Peptide-Modified Gold Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 4813-4819.	0.9	28
24	Peptide Mediated In Vivo Tumor Targeting of Nanoparticles through Optimization in Single and Multilayer In Vitro Cell Models. <i>Cancers</i> , 2018, 10, 84.	3.7	27
25	Elucidating the fate of nanoparticles among key cell components of the tumor microenvironment for promoting cancer nanotechnology. <i>Cancer Nanotechnology</i> , 2020, 11, 8.	3.7	27
26	Colloidal Gold-Mediated Delivery of Bleomycin for Improved Outcome in Chemotherapy. <i>Nanomaterials</i> , 2016, 6, 48.	4.1	25
27	Modulation of nanoparticle uptake, intracellular distribution, and retention with docetaxel to enhance radiotherapy. <i>British Journal of Radiology</i> , 2020, 93, 20190742.	2.2	24
28	Nuclear Targeting of Gold Nanoparticles for Improved Therapeutics. <i>Current Topics in Medicinal Chemistry</i> , 2015, 16, 271-280.	2.1	24
29	Optimization of Bio-Nano Interface Using Gold Nanostructures as a Model Nanoparticle System. <i>Insciences Journal</i> , 0, , 115-135.	0.7	24
30	Use of a lipid nanoparticle system as a Trojan horse in delivery of gold nanoparticles to human breast cancer cells for improved outcomes in radiation therapy. <i>Cancer Nanotechnology</i> , 2019, 10, .	3.7	21
31	Monte Carlo simulation on low-energy electrons from gold nanoparticle in radiotherapy. <i>Journal of Physics: Conference Series</i> , 2012, 341, 012012.	0.4	20
32	Elucidating the Uptake and Distribution of Nanoparticles in Solid Tumors via a Multilayered Cell Culture Model. <i>Nano-Micro Letters</i> , 2015, 7, 127-137.	27.0	18
33	Combining Gold Nanoparticles with Other Radiosensitizing Agents for Unlocking the Full Potential of Cancer Radiotherapy. <i>Pharmaceutics</i> , 2021, 13, 442.	4.5	18
34	Determining the Size Dependence of Colloidal Gold Nanoparticle Uptake in a Tumor-like Interface (Hypoxic). <i>Colloids and Interface Science Communications</i> , 2014, 1, 57-61.	4.1	16
35	Three-Dimensional Tumor Spheroids as a Tool for Reliable Investigation of Combined Gold Nanoparticle and Docetaxel Treatment. <i>Cancers</i> , 2021, 13, 1465.	3.7	14
36	Modulation of gold nanoparticle mediated radiation dose enhancement through synchronization of breast tumor cell population. <i>British Journal of Radiology</i> , 2019, 92, 20190283.	2.2	13

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37	Uptake of Gold Nanoparticles in Breathless (Hypoxic) Cancer Cells. Journal of Biomedical Nanotechnology, 2015, 11, 1162-1172.	1.1	12
38	Docetaxel-Mediated Uptake and Retention of Gold Nanoparticles in Tumor Cells and in Cancer-Associated Fibroblasts. Cancers, 2021, 13, 3157.	3.7	12
39	Investigation of Nano-Bio Interactions within a Pancreatic Tumor Microenvironment for the Advancement of Nanomedicine in Cancer Treatment. Current Oncology, 2021, 28, 1962-1979.	2.2	9
40	Modulation of the Microtubule Network for Optimization of Nanoparticle Dynamics for the Advancement of Cancer Nanomedicine. Bioengineering, 2020, 7, 56.	3.5	8
41	Nanotechnology Driven Cancer Chemoradiation: Exploiting the Full Potential of Radiotherapy with a Unique Combination of Gold Nanoparticles and Bleomycin. Pharmaceutics, 2022, 14, 233.	4.5	6
42	Optimized bio-nano interface using peptide modified colloidal gold nanoparticles. Colloids and Interface Science Communications, 2014, 1, 54-56.	4.1	3
43	Optimization of uptake and transport of gold nanoparticles in two-dimensional and three-dimensional in-vitro cell models. , 2019, , .		2
44	Delivery of smaller gold nanoparticles by liposomal incorporation. , 2010, , .		1
45	Therapeutic Enhancement with Nuclear Targeted Gold Nanoparticles. Biophysical Journal, 2016, 110, 502a.	0.5	1
46	Intracellular Behavior of Nanoparticles Based on their Physicochemical Properties. Advances in Chemical and Materials Engineering Book Series, 2015, , 10-35.	0.3	1
47	Increase in uptake of peptide modified gold nanoparticles (GNPs). , 2014, , .		0
48	Peptide-modified gold nanoparticles for improved cancer therapeutics. Proceedings of SPIE, 2014, , .	0.8	0
49	Gold Nanoparticle Modification for Nuclear Targeting. Biophysical Journal, 2014, 106, 216a.	0.5	0
50	Size dependent gold nanoparticle interaction at nano-micro interface using both monolayer and multilayer (tissue-like) cell models. , 2016, , .		0
51	Intracellular Targeting Using Surface-Modified Gold Nanoparticles. , 2018, , 315-333.		0
52	Intracellular Behavior of Nanoparticles Based on their Physicochemical Properties. , 2018, , 1101-1127.		0
53	Cancer nanomedicine: gold nanoparticle mediated combined cancer therapy. , 2018, , .		0