

Santosh Aryal

List of Publications by Year in descending order

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papers

7,664
citations

76322

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99
all docs

99
docs citations

99
times ranked

11105
citing authors

#	ARTICLE	IF	CITATIONS
1	Erythrocyte membrane-camouflaged polymeric nanoparticles as a biomimetic delivery platform. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10980-10985.	7.1	1,749
2	Nanoparticle-assisted combination therapies for effective cancer treatment. Therapeutic Delivery, 2010, 1, 323-334.	2.2	471
3	Polymerâ€”Cisplatin Conjugate Nanoparticles for Acid-Responsive Drug Delivery. ACS Nano, 2010, 4, 251-258.	14.6	370
4	Spectroscopic identification of SAu interaction in cysteine capped gold nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 63, 160-163.	3.9	257
5	Macrophage-derived exosome-mimetic hybrid vesicles for tumor targeted drug delivery. Acta Biomaterialia, 2019, 94, 482-494.	8.3	249
6	Bacterial Toxin-Triggered Drug Release from Gold Nanoparticle-Stabilized Liposomes for the Treatment of Bacterial Infection. Journal of the American Chemical Society, 2011, 133, 4132-4139.	13.7	243
7	Doxorubicin conjugated gold nanoparticles as water-soluble and pH-responsive anticancer drug nanocarriers. Journal of Materials Chemistry, 2009, 19, 7879.	6.7	185
8	Half-Antibody Functionalized Lipidâ€”Polymer Hybrid Nanoparticles for Targeted Drug Delivery to Carcinoembryonic Antigen Presenting Pancreatic Cancer Cells. Molecular Pharmaceutics, 2010, 7, 914-920.	4.6	181
9	Polymeric Nanoparticles with Precise Ratiometric Control over Drug Loading for Combination Therapy. Molecular Pharmaceutics, 2011, 8, 1401-1407.	4.6	180
10	Natural killer cell membrane infused biomimetic liposomes for targeted tumor therapy. Biomaterials, 2018, 160, 124-137.	11.4	171
11	Erythrocyte membrane-cloaked polymeric nanoparticles for controlled drug loading and release. Nanomedicine, 2013, 8, 1271-1280.	3.3	166
12	Combinatorial Drug Conjugation Enables Nanoparticle Dualâ€”Drug Delivery. Small, 2010, 6, 1442-1448.	10.0	162
13	Quick Synthesis of Lipidâ€”Polymer Hybrid Nanoparticles with Low Polydispersity Using a Single-Step Sonication Method. Langmuir, 2010, 26, 16958-16962.	3.5	160
14	Soft Discoidal Polymeric Nanoconstructs Resist Macrophage Uptake and Enhance Vascular Targeting in Tumors. ACS Nano, 2015, 9, 11628-11641.	14.6	148
15	Stimuli-Responsive Liposome Fusion Mediated by Gold Nanoparticles. ACS Nano, 2010, 4, 1935-1942.	14.6	145
16	Multi-walled carbon nanotubes/TiO2 composite nanofiber by electrospinning. Materials Science and Engineering C, 2008, 28, 75-79.	7.3	109
17	Synthesis and characterization of hydroxyapatite using carbon nanotubes as a nano-matrix. Scripta Materialia, 2006, 54, 131-135.	5.2	104
18	Study of electrolyte induced aggregation of gold nanoparticles capped by amino acids. Journal of Colloid and Interface Science, 2006, 299, 191-197.	9.4	98

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19	An amperometric urea biosensor based on covalently immobilized urease on an electrode made of hyperbranched polyester functionalized gold nanoparticles. <i>Talanta</i> , 2009, 78, 1401-1407.	5.5	94
20	Biodistribution of gadolinium- and near infrared-labeled human umbilical cord mesenchymal stromal cell-derived exosomes in tumor bearing mice. <i>Theranostics</i> , 2019, 9, 2325-2345.	10.0	93
21	Biodegradable and biocompatible multi-arm star amphiphilic block copolymer as a carrier for hydrophobic drug delivery. <i>International Journal of Biological Macromolecules</i> , 2009, 44, 346-352.	7.5	87
22	Carbon nanotubes assisted biomimetic synthesis of hydroxyapatite from simulated body fluid. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 426, 202-207.	5.6	82
23	Synthesis and Characterization of Lipid-Polymer Hybrid Nanoparticles with pH-Triggered Poly(ethylene glycol) Shedding. <i>Langmuir</i> , 2011, 27, 10556-10561.	3.5	80
24	N-Acylated chitosan stabilized iron oxide nanoparticles as a novel nano-matrix and ceramic modification. <i>Carbohydrate Polymers</i> , 2007, 69, 467-477.	10.2	73
25	Nanoparticle drug delivery enhances the cytotoxicity of hydrophobic hydrophilic drug conjugates. <i>Journal of Materials Chemistry</i> , 2012, 22, 994-999.	6.7	70
26	Overcoming Nanoparticle-Mediated Complement Activation by Surface PEG Pairing. <i>Nano Letters</i> , 2020, 20, 4312-4321.	9.1	70
27	pH-responsive cationic liposome for endosomal escape mediated drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110804.	5.0	65
28	Biomimetic Natural Killer Membrane Camouflaged Polymeric Nanoparticle for Targeted Bioimaging. <i>Advanced Functional Materials</i> , 2019, 29, 1806817.	14.9	64
29	Novel self-assembled amphiphilic poly(ϵ -caprolactone)-grafted-poly(vinyl alcohol) nanoparticles: hydrophobic and hydrophilic drugs carrier nanoparticles. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 821-831.	3.6	60
30	Large-Scale Synthesis of Lipid-Polymer Hybrid Nanoparticles Using a Multi-Inlet Vortex Reactor. <i>Langmuir</i> , 2012, 28, 13824-13829.	3.5	59
31	Engineered magnetic hybrid nanoparticles with enhanced relaxivity for tumor imaging. <i>Biomaterials</i> , 2013, 34, 7725-7732.	11.4	57
32	Surface functionalization strategies of extracellular vesicles. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4552-4569.	5.8	57
33	Positron Emitting Magnetic Nanoconstructs for PET/MR Imaging. <i>Small</i> , 2014, 10, 2688-2696.	10.0	55
34	Hydrophobically modified chitosan/gold nanoparticles for DNA delivery. <i>Journal of Nanoparticle Research</i> , 2008, 10, 151-162.	1.9	53
35	Synthesis of Multifunctional Magnetic NanoFlakes for Magnetic Resonance Imaging, Hyperthermia, and Targeting.. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12939-12946.	8.0	53
36	Hierarchically Structured Magnetic Nanoconstructs with Enhanced Relaxivity and Cooperative Tumor Accumulation. <i>Advanced Functional Materials</i> , 2014, 24, 4584-4594.	14.9	50

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37	Novel amphiphilic triblock copolymer based on PPDO, PCL, and PEG: Synthesis, characterization, and aqueous dispersion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 292, 69-78.	4.7	47
38	Modified titanium surface with gelatin nano gold composite increases osteoblast cell biocompatibility. <i>Applied Surface Science</i> , 2010, 256, 5882-5887.	6.1	44
39	Immobilization of collagen on gold nanoparticles: preparation, characterization, and hydroxyapatite growth. <i>Journal of Materials Chemistry</i> , 2006, 16, 4642.	6.7	43
40	Rosiglitazone-loaded nanospheres for modulating macrophage-specific inflammation in obesity. <i>Journal of Controlled Release</i> , 2013, 170, 460-468.	9.9	41
41	Engineering discoidal polymeric nanoconstructs with enhanced magneto-optical properties for tumor imaging. <i>Biomaterials</i> , 2013, 34, 5402-5410.	11.4	41
42	Enhancing photothermal cancer therapy by clustering gold nanoparticles into spherical polymeric nanoconstructs. <i>Optics and Lasers in Engineering</i> , 2016, 76, 74-81.	3.8	41
43	Encapsulation of Fe ₃ O ₄ in gelatin nanoparticles: Effect of different parameters on size and stability of the colloidal dispersion. <i>Journal of Microencapsulation</i> , 2008, 25, 21-30.	2.8	40
44	Gelatin stabilized iron oxide nanoparticles as a three dimensional template for the hydroxyapatite crystal nucleation and growth. <i>Materials Science and Engineering C</i> , 2008, 28, 1297-1303.	7.3	38
45	Poly(ϵ -caprolactone) grafted dextran biodegradable electrospun matrix: A novel scaffold for tissue engineering. <i>Journal of Applied Polymer Science</i> , 2008, 108, 1447-1454.	2.6	37
46	Nano-confinement-driven enhanced magnetic relaxivity of SPIONs for targeted tumor bioimaging. <i>Nanoscale</i> , 2018, 10, 284-294.	5.6	37
47	Preparation and drug release activity of scaffolds containing collagen and poly(ϵ -caprolactone). <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 153-158.	4.0	36
48	Engineered Nanomedicine with Alendronic Acid Corona Improves Targeting to Osteosarcoma. <i>Scientific Reports</i> , 2016, 6, 36707.	3.3	35
49	Radiolabeled Polymeric Nanoconstructs Loaded with Docetaxel and Curcumin for Cancer Combinatorial Therapy and Nuclear Imaging. <i>Advanced Functional Materials</i> , 2015, 25, 3371-3379.	14.9	34
50	Integration of gadolinium in nanostructure for contrast enhanced ϵ -magnetic resonance imaging. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1580.	6.1	33
51	Carbon nanotube-hydroxyapatite nanocomposite for DNA complexation. <i>Materials Science and Engineering C</i> , 2008, 28, 64-69.	7.3	32
52	Methotrexate-Loaded Hybrid Nanoconstructs Target Vascular Lesions and Inhibit Atherosclerosis Progression in ApoE ^{0/0} Mice. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601286.	7.6	32
53	Strategic reconstruction of macrophage-derived extracellular vesicles as a magnetic resonance imaging contrast agent. <i>Biomaterials Science</i> , 2020, 8, 2887-2904.	5.4	32
54	Paramagnetic Gd ³⁺ labeled red blood cells for magnetic resonance angiography. <i>Biomaterials</i> , 2016, 98, 163-170.	11.4	28

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55	Erythrocyte membrane concealed paramagnetic polymeric nanoparticle for contrast-enhanced magnetic resonance imaging. <i>Nanoscale</i> , 2020, 12, 4137-4149.	5.6	28
56	Engineered biomimetic nanoabsorbent for cellular detoxification of chemotherapeutics. <i>RSC Advances</i> , 2016, 6, 33003-33008.	3.6	27
57	Multifunctional Nano-Micelles Formed by Amphiphilic Gold-Polycaprolactone-Methoxy Poly(ethylene Terephthalate) and Nanotechnology, 2009, 9, 5701-5708.	0.9	26
58	Membrane Fusion-Mediated Gold Nanoplatting of Red Blood Cell: A Bioengineered CT-Contrast Agent. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 36-41.	5.2	26
59	Gd ³⁺ Tethered Gold Nanorods for Combined Magnetic Resonance Imaging and Photo-Thermal Therapy. <i>Journal of Biomedical Nanotechnology</i> , 2017, 13, 417-426.	1.1	26
60	Stabilization of gold nanoparticles by hydrophobically-modified polycations. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006, 17, 579-589.	3.5	25
61	Self-assembled amphiphilic polyhedral oligosilsesquioxane (POSS) grafted poly(vinyl alcohol) (PVA) nanoparticles. <i>Materials Science and Engineering C</i> , 2009, 29, 869-876.	7.3	25
62	Impact of cell adhesion and migration on nanoparticle uptake and cellular toxicity. <i>Toxicology in Vitro</i> , 2017, 43, 29-39.	2.4	25
63	The influence of polyethylene glycol passivation on the surface plasmon resonance induced photothermal properties of gold nanorods. <i>Nanoscale</i> , 2018, 10, 13684-13693.	5.6	24
64	Design and characterization of gadolinium infused theranostic liposomes. <i>RSC Advances</i> , 2016, 6, 36898-36905.	3.6	23
65	siRNA-Chitosan Complexes in Poly(lactide-co-glycolic acid) Nanoparticles for the Silencing of Aquaporin-1 in Cancer Cells. <i>Molecular Pharmaceutics</i> , 2013, 10, 3186-3194.	4.6	22
66	Biomimetic surface modification of discoidal polymeric particles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 16, 79-87.	3.3	22
67	Stabilization of gold nanoparticles by thiol functionalized poly(ϵ -Caprolactone) for the labeling of PCL biocarrier. <i>Materials Chemistry and Physics</i> , 2006, 98, 463-469.	4.0	21
68	Synthesis of Ptosome: a platinum-based liposome-like nanostructure. <i>Chemical Communications</i> , 2012, 48, 2630.	4.1	20
69	Synthesis and Characterization of Biomimetic Hydroxyapatite Nanoconstruct Using Chemical Gradient across Lipid Bilayer. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27382-27390.	8.0	19
70	Physicochemical characterization of self-assembled poly(ϵ -caprolactone) grafted dextran nanoparticles. <i>Colloid and Polymer Science</i> , 2008, 286, 517-524.	2.1	18
71	Opportunities for nanotheranosis in lung cancer and pulmonary metastasis. <i>Clinical and Translational Imaging</i> , 2014, 2, 427-437.	2.1	17
72	Elucidating the RNA Nano-Bio Interface: Mechanisms of Anticancer Poly I:C RNA and Zinc Oxide Nanoparticle Interaction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15702-15710.	3.1	16

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73	Enzyme and Cancer Cell Selectivity of Nanoparticles: Inhibition of 3-D Metastatic Phenotype and Experimental Melanoma by Zinc Oxide. <i>Journal of Biomedical Nanotechnology</i> , 2017, 13, 221-231.	1.1	15
74	Amphiphilic triblock copolymer based on poly(p-dioxanone) and poly(ethylene glycol): Synthesis, characterization, and aqueous dispersion. <i>Journal of Applied Polymer Science</i> , 2007, 103, 2695-2702.	2.6	14
75	In vitro evaluation of poly(caprolactone) grafted dextran (PGD) nanoparticles with cancer cell. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 2157-2163.	3.6	14
76	Synthesis and characterization of a tumor-seeking LyP-1 peptide integrated lipid-polymer composite nanoparticle. <i>Materials Advances</i> , 2020, 1, 469-480.	5.4	14
77	Ceramic modification of N-acylated chitosan stabilized gold nanoparticles. <i>Scripta Materialia</i> , 2006, 54, 2029-2034.	5.2	13
78	Production of beads like hollow nickel oxide nanoparticles using colloidal -gel electrospinning methodology. <i>Journal of Materials Science</i> , 2008, 43, 860-864.	3.7	13
79	A review on nanoparticle-based technologies for biodegradation. <i>Drug and Chemical Toxicology</i> , 2017, 40, 489-497.	2.3	13
80	Deposition of Gold Nanoparticles on Electrospun MgTiO ₃ Ceramic Nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 510-513.	0.9	12
81	Re-engineering a Liposome with Membranes of Red Blood Cells for Drug Delivery and Diagnostic Applications. <i>ACS Applied Bio Materials</i> , 2021, 4, 6974-6981.	4.6	11
82	Iron(III) chelated paramagnetic polymeric nanoparticle formulation as a next-generation T ₁ -weighted MRI contrast agent. <i>RSC Advances</i> , 2021, 11, 32216-32226.	3.6	10
83	Global Trends in Cancer Nanotechnology: A Qualitative Scientific Mapping Using Content-Based and Bibliometric Features for Machine Learning Text Classification. <i>Cancers</i> , 2021, 13, 4417.	3.7	10
84	Synthesis and characterization of amine-functionalized amphiphilic block copolymers based on poly(ethylene glycol) and poly(caprolactone). <i>Polymer International</i> , 2007, 56, 518-524.	3.1	9
85	Radical scavenger for the stabilization of gold nanoparticles. <i>Materials Letters</i> , 2007, 61, 4225-4230.	2.6	9
86	Biomimetic hydroxyapatite particulate nanofiber modified silicon: In vitro bioactivity. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 384-391.	4.0	7
87	Unique Boron Carbide Nanoparticle Nanobio Interface: Effects on Protein-RNA Interactions and 3-D Spheroid Metastatic Phenotype. <i>Anticancer Research</i> , 2016, 36, 2097-103.	1.1	7
88	Zn-based physiometacomposite nanoparticles: distribution, tolerance, imaging, and antiviral and anticancer activity. <i>Nanomedicine</i> , 2021, 16, 1857-1872.	3.3	6
89	Synthesis and characterization of brush copolymers based on methoxy poly(ethylene glycol) and poly(μ -caprolactone). <i>Journal of Applied Polymer Science</i> , 2009, 111, 1540-1548.	2.6	5
90	Drug Delivery Nanoparticles with Locally Tunable Toxicity Made Entirely from a Light-Activatable Prodrug of Doxorubicin. <i>Pharmaceutical Research</i> , 2017, 34, 2025-2035.	3.5	5

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91	Amino/Amido Conjugates Form to Nanoscale Cobalt Physiometacomposite (PMC) Materials Functionally Delivering Nucleic Acid Therapeutic to Nucleus Enhancing Anticancer Activity via Ras-Targeted Protein Interference. ACS Applied Bio Materials, 2020, 3, 175-179.	4.6	5
92	Interaction of Immune System Protein with PEGylated and Un-PEGylated Polymeric Nanoparticles. Advances in Nanoparticles, 2017, 06, 103-113.	1.0	5
93	Measurement of Aluminum and Chemical Oxygen Demand in the Effluent of Mordanted Cotton Against Environmental Regulations. Clothing and Textiles Research Journal, 2021, 39, 206-215.	3.4	4
94	Re-engineered imaging agent using biomimetic approaches. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, e1762.	6.1	4
95	Biocompatible FePO ₄ Nanoparticles: Drug Delivery, RNA Stabilization, and Functional Activity. Nanoscale Research Letters, 2021, 16, 169.	5.7	3
96	Biogenic and biomimetic nanocarrier-based interventions: focus on intracellular infections. Nanomedicine, 2021, 16, 685-688.	3.3	2
97	Indocyanine-type Infrared-820 Encapsulated Polymeric Nanoparticle-Assisted Photothermal Therapy of Cancer. ACS Omega, 2022, 7, 12056-12065.	3.5	2
98	Real-time quantification of CD63 with anti-CD63 functionalized plasmonic fiber optic probe. , 2022, , .		1
99	Magnetic Nanoparticles: Hierarchically Structured Magnetic Nanoconstructs with Enhanced Relaxivity and Cooperative Tumor Accumulation (Adv. Funct. Mater. 29/2014). Advanced Functional Materials, 2014, 24, 4562-4562.	14.9	0