

Santosh Aryal

List of Publications by Year in descending order

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99
papers

7,664
citations

87401

40
h-index

58552

86
g-index

99
all docs

99
docs citations

99
times ranked

12645
citing authors

#	ARTICLE	IF	CITATIONS
1	Re-engineered imaging agent using biomimetic approaches. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, e1762.	3.3	4
2	Indocyanine-type Infrared-820 Encapsulated Polymeric Nanoparticle-Assisted Photothermal Therapy of Cancer. ACS Omega, 2022, 7, 12056-12065.	1.6	2
3	Real-time quantification of CD63 with anti-CD63 functionalized plasmonic fiber optic probe. , 2022, , .		1
4	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.	2.2	4
5	Iron(III) chelated paramagnetic polymeric nanoparticle formulation as a next-generation T ₁ -weighted MRI contrast agent. RSC Advances, 2021, 11, 32216-32226.	1.7	10
6	Biogenic and biomimetic nanocarrier-based interventions: focus on intracellular infections. Nanomedicine, 2021, 16, 685-688.	1.7	2
7	Re-engineering a Liposome with Membranes of Red Blood Cells for Drug Delivery and Diagnostic Applications. ACS Applied Bio Materials, 2021, 4, 6974-6981.	2.3	11
8	Global Trends in Cancer Nanotechnology: A Qualitative Scientific Mapping Using Content-Based and Bibliometric Features for Machine Learning Text Classification. Cancers, 2021, 13, 4417.	1.7	10
9	Zn-based physiometacomposite nanoparticles: distribution, tolerance, imaging, and Antiviral and anticancer activity. Nanomedicine, 2021, 16, 1857-1872.	1.7	6
10	Biocompatible FePO ₄ Nanoparticles: Drug Delivery, RNA Stabilization, and Functional Activity. Nanoscale Research Letters, 2021, 16, 169.	3.1	3
11	Integration of gadolinium in nanostructure for contrast enhanced magnetic resonance imaging. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1580.	3.3	33
12	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.	2.3	5
13	Synthesis and characterization of a tumor-seeking LyP-1 peptide integrated lipid-polymer composite nanoparticle. Materials Advances, 2020, 1, 469-480.	2.6	14
14	pH-responsive cationic liposome for endosomal escape mediated drug delivery. Colloids and Surfaces B: Biointerfaces, 2020, 188, 110804.	2.5	65
15	Overcoming Nanoparticle-Mediated Complement Activation by Surface PEG Pairing. Nano Letters, 2020, 20, 4312-4321.	4.5	70
16	Surface functionalization strategies of extracellular vesicles. Journal of Materials Chemistry B, 2020, 8, 4552-4569.	2.9	57
17	Strategic reconstruction of macrophage-derived extracellular vesicles as a magnetic resonance imaging contrast agent. Biomaterials Science, 2020, 8, 2887-2904.	2.6	32
18	Erythrocyte membrane concealed paramagnetic polymeric nanoparticle for contrast-enhanced magnetic resonance imaging. Nanoscale, 2020, 12, 4137-4149.	2.8	28

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19	Macrophage-derived exosome-mimetic hybrid vesicles for tumor targeted drug delivery. <i>Acta Biomaterialia</i> , 2019, 94, 482-494.	4.1	249
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.	4.6	93
21	Biomimetic surface modification of discoidal polymeric particles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 16, 79-87.	1.7	22
22	Biomimetic Natural Killer Membrane Camouflaged Polymeric Nanoparticle for Targeted Bioimaging. <i>Advanced Functional Materials</i> , 2019, 29, 1806817.	7.8	64
23	Natural killer cell membrane infused biomimetic liposomes for targeted tumor therapy. <i>Biomaterials</i> , 2018, 160, 124-137.	5.7	171
24	Nano-confinement-driven enhanced magnetic relaxivity of SPIONs for targeted tumor bioimaging. <i>Nanoscale</i> , 2018, 10, 284-294.	2.8	37
25	The influence of polyethylene glycol passivation on the surface plasmon resonance induced photothermal properties of gold nanorods. <i>Nanoscale</i> , 2018, 10, 13684-13693.	2.8	24
26	A review on nanoparticle-based technologies for biodetoxification. <i>Drug and Chemical Toxicology</i> , 2017, 40, 489-497.	1.2	13
27	Methotrexate-Loaded Hybrid Nanoconstructs Target Vascular Lesions and Inhibit Atherosclerosis Progression in ApoE ^{-/-} Mice. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601286.	3.9	32
28	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.	0.5	15
29	Impact of cell adhesion and migration on nanoparticle uptake and cellular toxicity. <i>Toxicology in Vitro</i> , 2017, 43, 29-39.	1.1	25
30	Membrane Fusion-Mediated Gold Nanoplatinating of Red Blood Cell: A Bioengineered CT-Contrast Agent. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 36-41.	2.6	26
31	Drug Delivery Nanoparticles with Locally Tunable Toxicity Made Entirely from a Light-Activatable Prodrug of Doxorubicin. <i>Pharmaceutical Research</i> , 2017, 34, 2025-2035.	1.7	5
32	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.	1.5	16
33	Gd ³⁺ Tethered Gold Nanorods for Combined Magnetic Resonance Imaging and Photo-Thermal Therapy. <i>Journal of Biomedical Nanotechnology</i> , 2017, 13, 417-426.	0.5	26
34	Interaction of Immune System Protein with PEGylated and Un-PEGylated Polymeric Nanoparticles. <i>Advances in Nanoparticles</i> , 2017, 06, 103-113.	0.3	5
35	Design and characterization of gadolinium infused theranostic liposomes. <i>RSC Advances</i> , 2016, 6, 36898-36905.	1.7	23
36	Engineered biomimetic nanoabsorbent for cellular detoxification of chemotherapeutics. <i>RSC Advances</i> , 2016, 6, 33003-33008.	1.7	27

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37	Engineered Nanomedicine with Alendronic Acid Corona Improves Targeting to Osteosarcoma. Scientific Reports, 2016, 6, 36707.	1.6	35
38	Paramagnetic Gd ³⁺ labeled red blood cells for magnetic resonance angiography. Biomaterials, 2016, 98, 163-170.	5.7	28
39	Enhancing photothermal cancer therapy by clustering gold nanoparticles into spherical polymeric nanoconstructs. Optics and Lasers in Engineering, 2016, 76, 74-81.	2.0	41
40	Unique Boron Carbide Nanoparticle Nanobio Interface: Effects on Protein-RNA Interactions and 3-D Spheroid Metastatic Phenotype. Anticancer Research, 2016, 36, 2097-103.	0.5	7
41	Radiolabeled Polymeric Nanoconstructs Loaded with Docetaxel and Curcumin for Cancer Combinatorial Therapy and Nuclear Imaging. Advanced Functional Materials, 2015, 25, 3371-3379.	7.8	34
42	Soft Discoidal Polymeric Nanoconstructs Resist Macrophage Uptake and Enhance Vascular Targeting in Tumors. ACS Nano, 2015, 9, 11628-11641.	7.3	148
43	Synthesis and Characterization of Biomimetic Hydroxyapatite Nanoconstruct Using Chemical Gradient across Lipid Bilayer. ACS Applied Materials & Interfaces, 2015, 7, 27382-27390.	4.0	19
44	Positron Emitting Magnetic Nanoconstructs for PET/MR Imaging. Small, 2014, 10, 2688-2696.	5.2	55
45	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.	7.8	0
46	Opportunities for nanotheranosis in lung cancer and pulmonary metastasis. Clinical and Translational Imaging, 2014, 2, 427-437.	1.1	17
47	Hierarchically Structured Magnetic Nanoconstructs with Enhanced Relaxivity and Cooperative Tumor Accumulation. Advanced Functional Materials, 2014, 24, 4584-4594.	7.8	50
48	Synthesis of Multifunctional Magnetic NanoFlakes for Magnetic Resonance Imaging, Hyperthermia, and Targeting.. ACS Applied Materials & Interfaces, 2014, 6, 12939-12946.	4.0	53
49	Engineered magnetic hybrid nanoparticles with enhanced relaxivity for tumor imaging. Biomaterials, 2013, 34, 7725-7732.	5.7	57
50	Rosiglitazone-loaded nanospheres for modulating macrophage-specific inflammation in obesity. Journal of Controlled Release, 2013, 170, 460-468.	4.8	41
51	Erythrocyte membrane-cloaked polymeric nanoparticles for controlled drug loading and release. Nanomedicine, 2013, 8, 1271-1280.	1.7	166
52	siRNA-Chitosan Complexes in Poly(lactic-co-glycolic acid) Nanoparticles for the Silencing of Aquaporin-1 in Cancer Cells. Molecular Pharmaceutics, 2013, 10, 3186-3194.	2.3	22
53	Engineering discoidal polymeric nanoconstructs with enhanced magneto-optical properties for tumor imaging. Biomaterials, 2013, 34, 5402-5410.	5.7	41
54	Synthesis of Ptsome: a platinum-based liposome-like nanostructure. Chemical Communications, 2012, 48, 2630.	2.2	20

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55	Large-Scale Synthesis of Lipid-Polymer Hybrid Nanoparticles Using a Multi-Inlet Vortex Reactor. <i>Langmuir</i> , 2012, 28, 13824-13829.	1.6	59
56	Nanoparticle drug delivery enhances the cytotoxicity of hydrophobic-hydrophilic drug conjugates. <i>Journal of Materials Chemistry</i> , 2012, 22, 994-999.	6.7	70
57	Erythrocyte membrane-camouflaged polymeric nanoparticles as a biomimetic delivery platform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10980-10985.	3.3	1,749
58	Synthesis and Characterization of Lipid-Polymer Hybrid Nanoparticles with pH-Triggered Poly(ethylene glycol) Shedding. <i>Langmuir</i> , 2011, 27, 10556-10561.	1.6	80
59	Bacterial Toxin-Triggered Drug Release from Gold Nanoparticle-Stabilized Liposomes for the Treatment of Bacterial Infection. <i>Journal of the American Chemical Society</i> , 2011, 133, 4132-4139.	6.6	243
60	Polymeric Nanoparticles with Precise Ratiometric Control over Drug Loading for Combination Therapy. <i>Molecular Pharmaceutics</i> , 2011, 8, 1401-1407.	2.3	180
61	Modified titanium surface with gelatin nano gold composite increases osteoblast cell biocompatibility. <i>Applied Surface Science</i> , 2010, 256, 5882-5887.	3.1	44
62	Combinatorial Drug Conjugation Enables Nanoparticle Dual-Drug Delivery. <i>Small</i> , 2010, 6, 1442-1448.	5.2	162
63	Nanoparticle-assisted combination therapies for effective cancer treatment. <i>Therapeutic Delivery</i> , 2010, 1, 323-334.	1.2	471
64	Polymer-Cisplatin Conjugate Nanoparticles for Acid-Responsive Drug Delivery. <i>ACS Nano</i> , 2010, 4, 251-258.	7.3	370
65	Quick Synthesis of Lipid-Polymer Hybrid Nanoparticles with Low Polydispersity Using a Single-Step Sonication Method. <i>Langmuir</i> , 2010, 26, 16958-16962.	1.6	160
66	Stimuli-Responsive Liposome Fusion Mediated by Gold Nanoparticles. <i>ACS Nano</i> , 2010, 4, 1935-1942.	7.3	145
67	Half-Antibody Functionalized Lipid-Polymer Hybrid Nanoparticles for Targeted Drug Delivery to Carcinoembryonic Antigen Presenting Pancreatic Cancer Cells. <i>Molecular Pharmaceutics</i> , 2010, 7, 914-920.	2.3	181
68	Multifunctional Nano-Micelles Formed by Amphiphilic Gold-Polycaprolactone-Methoxy Poly(ethylene glycol) and Nanotechnology, 2009, 9, 5701-5708.	0.9	26
69	Biomimetic hydroxyapatite particulate nanofiber modified silicon: <i>In vitro</i> bioactivity. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 384-391.	2.1	7
70	Synthesis and characterization of brush copolymers based on methoxy poly(ethylene glycol) and poly(ϵ -caprolactone). <i>Journal of Applied Polymer Science</i> , 2009, 111, 1540-1548.	1.3	5
71	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.	1.7	60
72	Self-assembled amphiphilic polyhedral oligosilsesquioxane (POSS) grafted poly(vinyl alcohol) (PVA) nanoparticles. <i>Materials Science and Engineering C</i> , 2009, 29, 869-876.	3.8	25

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73	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.	2.9	94
74	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.	3.6	87
75	Doxorubicin conjugated gold nanoparticles as water-soluble and pH-responsive anticancer drug nanocarriers. <i>Journal of Materials Chemistry</i> , 2009, 19, 7879.	6.7	185
76	Hydrophobically modified chitosan/gold nanoparticles for DNA delivery. <i>Journal of Nanoparticle Research</i> , 2008, 10, 151-162.	0.8	53
77	In vitro evaluation of poly(ϵ -caprolactone) grafted dextran (PGD) nanoparticles with cancer cell. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 2157-2163.	1.7	14
78	Production of beads like hollow nickel oxide nanoparticles using colloidal -gel electrospinning methodology. <i>Journal of Materials Science</i> , 2008, 43, 860-864.	1.7	13
79	Physicochemical characterization of self-assembled poly(ϵ -caprolactone) grafted dextran nanoparticles. <i>Colloid and Polymer Science</i> , 2008, 286, 517-524.	1.0	18
80	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.	1.3	37
81	Carbon nanotube-hydroxyapatite nanocomposite for DNA complexation. <i>Materials Science and Engineering C</i> , 2008, 28, 64-69.	3.8	32
82	Multi-walled carbon nanotubes/TiO ₂ composite nanofiber by electrospinning. <i>Materials Science and Engineering C</i> , 2008, 28, 75-79.	3.8	109
83	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.	3.8	38
84	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.	1.2	40
85	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.	1.3	14
86	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.	2.3	47
87	N-Acylated chitosan stabilized iron oxide nanoparticles as a novel nano-matrix and ceramic modification. <i>Carbohydrate Polymers</i> , 2007, 69, 467-477.	5.1	73
88	Synthesis and characterization of amine-functionalized amphiphilic block copolymers based on poly(ethylene glycol) and poly(ϵ -caprolactone). <i>Polymer International</i> , 2007, 56, 518-524.	1.6	9
89	Radical scavenger for the stabilization of gold nanoparticles. <i>Materials Letters</i> , 2007, 61, 4225-4230.	1.3	9
90	Stabilization of gold nanoparticles by hydrophobically-modified polycations. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006, 17, 579-589.	1.9	25

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91	Immobilization of collagen on gold nanoparticles: preparation, characterization, and hydroxyapatite growth. <i>Journal of Materials Chemistry</i> , 2006, 16, 4642.	6.7	43
92	Deposition of Gold Nanoparticles on Electrospun MgTiO ₃ Ceramic Nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 510-513.	0.9	12
93	Spectroscopic identification of SAu interaction in cysteine capped gold nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 63, 160-163.	2.0	257
94	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.	2.6	82
95	Study of electrolyte induced aggregation of gold nanoparticles capped by amino acids. <i>Journal of Colloid and Interface Science</i> , 2006, 299, 191-197.	5.0	98
96	Synthesis and characterization of hydroxyapatite using carbon nanotubes as a nano-matrix. <i>Scripta Materialia</i> , 2006, 54, 131-135.	2.6	104
97	Ceramic modification of N-acylated chitosan stabilized gold nanoparticles. <i>Scripta Materialia</i> , 2006, 54, 2029-2034.	2.6	13
98	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.	2.0	21
99	Preparation and drug release activity of scaffolds containing collagen and poly(caprolactone). <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 153-158.	2.1	36