

Chitta Ranjan Patra

List of Publications by Year in descending order

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119
papers

6,528
citations

53794

45
h-index

66911

78
g-index

123
all docs

123
docs citations

123
times ranked

8820
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential Theranostics Application of Bio-Synthesized Silver Nanoparticles (4-in-1 System). <i>Theranostics</i> , 2014, 4, 316-335.	10.0	421
2	Fabrication of gold nanoparticles for targeted therapy in pancreatic cancer. <i>Advanced Drug Delivery Reviews</i> , 2010, 62, 346-361.	13.7	376
3	Targeted Delivery of Gemcitabine to Pancreatic Adenocarcinoma Using Cetuximab as a Targeting Agent. <i>Cancer Research</i> , 2008, 68, 1970-1978.	0.9	332
4	Green synthesis, characterization of gold and silver nanoparticles and their potential application for cancer therapeutics. <i>Materials Science and Engineering C</i> , 2015, 53, 298-309.	7.3	318
5	Intracellular gold nanoparticles enhance non-invasive radiofrequency thermal destruction of human gastrointestinal cancer cells. <i>Journal of Nanobiotechnology</i> , 2008, 6, 2.	9.1	226
6	Recent advances in inorganic nanomaterials for wound-healing applications. <i>Biomaterials Science</i> , 2019, 7, 2652-2674.	5.4	188
7	Graphene Oxides Show Angiogenic Properties. <i>Advanced Healthcare Materials</i> , 2015, 4, 1722-1732.	7.6	170
8	Attaching folic acid on gold nanoparticles using noncovalent interaction via different polyethylene glycol backbones and targeting of cancer cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2007, 3, 224-238.	3.3	166
9	Green chemistry approach for the synthesis and stabilization of biocompatible gold nanoparticles and their potential applications in cancer therapy. <i>Nanotechnology</i> , 2012, 23, 455103.	2.6	161
10	Zinc oxide nanoflowers make new blood vessels. <i>Nanoscale</i> , 2012, 4, 7861.	5.6	143
11	Gold nanoparticles conjugated quercetin induces apoptosis via inhibition of EGFR/PI3K/Akt mediated pathway in breast cancer cell lines (MCF7 and MDA-MB-231). <i>Cell Biochemistry and Function</i> , 2017, 35, 217-231.	2.9	131
12	Therapeutic application of anti-angiogenic nanomaterials in cancers. <i>Nanoscale</i> , 2016, 8, 12444-12470.	5.6	126
13	Green Synthesis and Characterization of Monodispersed Gold Nanoparticles: Toxicity Study, Delivery of Doxorubicin and Its Bio-Distribution in Mouse Model. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 165-181.	1.1	124
14	Characterization and Catalytic Activity of Gold Nanoparticles Synthesized by Autoreduction of Aqueous Chloroaurate Ions with Fumed Silica. <i>Chemistry of Materials</i> , 2002, 14, 1678-1684.	6.7	107
15	Curcumin loaded mesoporous silica: an effective drug delivery system for cancer treatment. <i>Biomaterials Science</i> , 2016, 4, 448-459.	5.4	107
16	Microwave approach for the synthesis of rhabdophane-type lanthanide orthophosphate (Ln = La, Ce,) <i>TJ ETQq0 0 0 rgBT /Overlock 10 Tf</i> 733.	2.8	106
17	Electrospun polycaprolactone (PCL) scaffolds embedded with europium hydroxide nanorods (EHNs) with enhanced vascularization and cell proliferation for tissue engineering applications. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4660-4672.	5.8	100
18	Preparation and stabilization of gold nanoparticles formed by in situ reduction of aqueous chloroaurate ions within surface-modified mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2003, 58, 201-211.	4.4	96

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19	Antiangiogenic Activity of Mononuclear Copper(II) Polypyridyl Complexes for the Treatment of Cancers. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 5226-5241.	6.4	94
20	In vivo toxicity studies of europium hydroxide nanorods in mice. <i>Toxicology and Applied Pharmacology</i> , 2009, 240, 88-98.	2.8	90
21	Fabrication and functional characterization of goldnanoparticles for potential application in ovarian cancer. <i>Journal of Materials Chemistry</i> , 2010, 20, 547-554.	6.7	85
22	A green chemistry approach for the synthesis of gold nanoparticles that induce the inhibition of cancer cell proliferation through induction of oxidative stress and their in vivo toxicity study. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3820-3830.	5.8	80
23	Curcumin-loaded silica-based mesoporous materials: Synthesis, characterization and cytotoxic properties against cancer cells. <i>Materials Science and Engineering C</i> , 2016, 63, 393-410.	7.3	78
24	Bioconjugated gold nanoparticles accelerate the growth of new blood vessels through redox signaling. <i>Chemical Communications</i> , 2014, 50, 14367-14370.	4.1	77
25	Reactive Oxygen Species Driven Angiogenesis by Inorganic Nanorods. <i>Nano Letters</i> , 2011, 11, 4932-4938.	9.1	74
26	Single-Molecule Detection of H ₂ O ₂ Mediating Angiogenic Redox Signaling on Fluorescent Single-Walled Carbon Nanotube Array. <i>ACS Nano</i> , 2011, 5, 7848-7857.	14.6	70
27	Biosynthesized silver nanoparticles: a step forward for cancer theranostics?. <i>Nanomedicine</i> , 2014, 9, 1445-1448.	3.3	70
28	Application of Gold Nanoparticles for Targeted Therapy in Cancer. <i>Journal of Biomedical Nanotechnology</i> , 2008, 4, 99-132.	1.1	68
29	Potential therapeutic and diagnostic applications of one-step in situ biosynthesized gold nanoparticles (2-in-1 system) in cancer treatment. <i>RSC Advances</i> , 2013, 3, 2318.	3.6	63
30	Biologically synthesized metal nanoparticles: recent advancement and future perspectives in cancer theranostics. <i>Future Science OA</i> , 2017, 3, FSO203.	1.9	63
31	Accelerating the clearance of mutant huntingtin protein aggregates through autophagy induction by europium hydroxide nanorods. <i>Biomaterials</i> , 2014, 35, 899-907.	11.4	60
32	In vivo targeting of DNA vaccines to dendritic cells using functionalized gold nanoparticles. <i>Biomaterials Science</i> , 2019, 7, 773-788.	5.4	60
33	Improved delivery of doxorubicin using rationally designed PEGylated platinum nanoparticles for the treatment of melanoma. <i>Materials Science and Engineering C</i> , 2020, 108, 110375.	7.3	59
34	Anti-angiogenic vanadium pentoxide nanoparticles for the treatment of melanoma and their in vivo toxicity study. <i>Nanoscale</i> , 2020, 12, 7604-7621.	5.6	54
35	Inorganic phosphate nanorods are a novel fluorescent label in cell biology. <i>Journal of Nanobiotechnology</i> , 2006, 4, 11.	9.1	53
36	Amplified Fluorescence from Polyfluorene Nanoparticles with Dual State Emission and Aggregation Caused Red Shifted Emission for Live Cell Imaging and Cancer Theranostics. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32220-32229.	8.0	53

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37	Facile synthesis of carbon dot and residual carbon nanobeads: Implications for ion sensing, medicinal and biological applications. <i>Materials Science and Engineering C</i> , 2017, 73, 643-652.	7.3	53
38	Cancer cell-selective promoter recognition accompanies antitumor effect by glucocorticoid receptor-targeted gold nanoparticle. <i>Nanoscale</i> , 2014, 6, 6745.	5.6	52
39	Biosynthesized Gold Nanoparticles: In Vivo Study of Near-Infrared Fluorescence (NIR)-Based Bio-imaging and Cell Labeling Applications. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5439-5452.	5.2	52
40	Cyclic-RGDfK peptide conjugated succinoyl-TPGS nanomicelles for targeted delivery of docetaxel to integrin receptor over-expressing angiogenic tumours. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 1511-1520.	3.3	51
41	Investigation of molecular mechanisms and regulatory pathways of pro-angiogenic nanorods. <i>Nanoscale</i> , 2015, 7, 9760-9770.	5.6	51
42	Evaluation of <i>in vivo</i> cytogenetic toxicity of europium hydroxide nanorods (EHNs) in male and female Swiss albino mice. <i>Nanotoxicology</i> , 2016, 10, 413-425.	3.0	50
43	Silver Prussian Blue Analogue Nanoparticles: Rationally Designed Advanced Nanomedicine for Multifunctional Biomedical Applications. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 690-704.	5.2	49
44	Rapid synthesis of nanoparticles of hexagonal type In ₂ O ₃ and spherical type Ti ₂ O ₃ by microwave irradiation. <i>New Journal of Chemistry</i> , 2004, 28, 1060.	2.8	48
45	Fabrication and characterization of an inorganic gold and silica nanoparticle mediated drug delivery system for nitric oxide. <i>Nanotechnology</i> , 2010, 21, 305102.	2.6	48
46	Prussian blue nanoparticles and their analogues for application to cancer theranostics. <i>Nanomedicine</i> , 2016, 11, 569-572.	3.3	48
47	Functionalized nanoceria exhibit improved angiogenic properties. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9371-9383.	5.8	46
48	Shikimoyl-ligand decorated gold nanoparticles for use in <i>ex vivo</i> engineered dendritic cell based DNA vaccination. <i>Nanoscale</i> , 2019, 11, 7931-7943.	5.6	45
49	New Linearly and Angularly Fused Quinazolinones: Synthesis through Gold(I)-Catalyzed Cascade Reactions and Anticancer Activities. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 1790-1799.	2.4	44
50	Copper Prussian blue analogue: investigation into multifunctional activities for biomedical applications. <i>Chemical Communications</i> , 2015, 51, 7325-7328.	4.1	44
51	Engineered fusion protein-loaded gold nanocarriers for targeted co-delivery of doxorubicin and erbB2-siRNA in human epidermal growth factor receptor-2+ ovarian cancer. <i>Journal of Materials Chemistry B</i> , 2017, 5, 7082-7098.	5.8	42
52	Lanthanide Phosphate Nanorods as Inorganic Fluorescent Labels in Cell Biology Research. <i>Clinical Chemistry</i> , 2007, 53, 2029-2031.	3.2	41
53	Sonochemically prepared BSA microspheres containing Gemcitabine, and their potential application in renal cancer therapeutics. <i>Acta Biomaterialia</i> , 2009, 5, 3031-3037.	8.3	38
54	A luminescent nanoporous hybrid material based drug delivery system showing excellent theranostics potential for cancer. <i>Chemical Communications</i> , 2013, 49, 7644.	4.1	37

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55	Synthesis and biological evaluation of novel 2-imino-4-thiazolidinone derivatives as potent anti-cancer agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 5361-5368.	2.2	37
56	Design, synthesis and characterization of doped-titanium oxide nanomaterials with environmental and angiogenic applications. <i>Science of the Total Environment</i> , 2017, 599-600, 1263-1274.	8.0	37
57	Pro-angiogenic Properties of Terbium Hydroxide Nanorods: Molecular Mechanisms and Therapeutic Applications in Wound Healing. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3635-3645.	5.2	37
58	Chemically Modified Peptides Targeting the PDZ Domain of GIPC as a Therapeutic Approach for Cancer. <i>ACS Chemical Biology</i> , 2012, 7, 770-779.	3.4	36
59	Microwave-assisted synthesis of submicrometer GaO(OH) and Ga ₂ O ₃ rods. <i>Journal of Nanoparticle Research</i> , 2004, 6, 509-518.	1.9	34
60	Donor atom selective coordination of Fe ³⁺ and Cr ³⁺ trigger fluorophore specific emission in a rhodamine-naphthalimide dyad. <i>RSC Advances</i> , 2014, 4, 24324-24327.	3.6	34
61	Aggregation deaggregation influenced selective and sensitive detection of Cu ²⁺ and ATP by histidine functionalized water-soluble fluorescent perylene diimide under physiological conditions and in living cells. <i>RSC Advances</i> , 2015, 5, 28211-28218.	3.6	34
62	Investigation of the role of nitric oxide driven angiogenesis by zinc oxide nanoflowers. <i>Journal of Materials Chemistry B</i> , 2017, 5, 3391-3403.	5.8	33
63	Fibro-porous PLLA/gelatin composite membrane doped with cerium oxide nanoparticles as bioactive scaffolds for future angiogenesis. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9110-9120.	5.8	33
64	Multifunctional (3-in-1) cancer theranostics applications of hydroxyquinoline-appended polyfluorene nanoparticles. <i>Chemical Science</i> , 2017, 8, 7566-7575.	7.4	32
65	Ag ₂ [Fe(CN) ₅ NO] Nanoparticles Exhibit Antibacterial Activity and Wound Healing Properties. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3434-3449.	5.2	32
66	Manganese-based advanced nanoparticles for biomedical applications: future opportunity and challenges. <i>Nanoscale</i> , 2021, 13, 16405-16426.	5.6	32
67	Differential ERK activation during autophagy induced by europium hydroxide nanorods and trehalose: Maximum clearance of huntingtin aggregates through combined treatment. <i>Biomaterials</i> , 2015, 73, 160-174.	11.4	31
68	Recent Development of Metal Nanoparticles for Angiogenesis Study and Their Therapeutic Applications. <i>ACS Applied Bio Materials</i> , 2019, 2, 5492-5511.	4.6	31
69	Ag ₂ [Fe(CN) ₅ NO]-Fabricated Hydrophobic Cotton as a Potential Wound Healing Dressing: An <i>In Vivo</i> Approach. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10689-10704.	8.0	31
70	An efficient strategy to assemble water soluble histidine-peryene diimide and graphene oxide for the detection of PPI in physiological conditions and in vitro. <i>Biosensors and Bioelectronics</i> , 2017, 89, 636-644.	10.1	30
71	Biosynthesized Silver Nanoparticles for Cancer Therapy and In Vivo Bioimaging. <i>Cancers</i> , 2021, 13, 6114.	3.7	30
72	Engineered Nanoparticles for Effective Redox Signaling During Angiogenic and Antiangiogenic Therapy. <i>Antioxidants and Redox Signaling</i> , 2019, 30, 786-809.	5.4	28

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73	meso-Substituted BODIPY fluorescent probes for cellular bio-imaging and anticancer activity. RSC Advances, 2014, 4, 47409-47413.	3.6	27
74	Restoration of p53 Function in Ovarian Cancer Mediated by Gold Nanoparticle-Based EGFR Targeted Gene Delivery System. ACS Biomaterials Science and Engineering, 2019, 5, 3631-3644.	5.2	25
75	Therapeutic applications of green-synthesized silver nanoparticles. , 2019, , 389-428.		24
76	Potential Therapeutic Application of Zinc Oxide Nanoflowers in the Cerebral Ischemia Rat Model through Neuritogenic and Neuroprotective Properties. Bioconjugate Chemistry, 2020, 31, 895-906.	3.6	24
77	A Microwave Route for the Synthesis of Nanoflakes and Dendrites-Type In_2S_3 and their Characterization. Journal of Nanoscience and Nanotechnology, 2006, 6, 845-851.	0.9	23
78	Cytotoxicity of naphthoquinones and their capacity to generate reactive oxygen species is quenched when conjugated with gold nanoparticles. International Journal of Nanomedicine, 2011, 6, 2113.	6.7	21
79	Au-CGKRK Nanoconjugates for Combating Cancer through T-Cell-Driven Therapeutic RNA Interference. ACS Omega, 2018, 3, 8663-8676.	3.5	20
80	RGS-GAIP Interacting Protein Controls Breast Cancer Progression. Molecular Cancer Research, 2010, 8, 1591-1600.	3.4	19
81	Entrapment and catalytic activity of gold nanoparticles in amine-functionalized MCM-41 matrices synthesized by spontaneous reduction of aqueous chloroaurate ions. PhysChemComm, 2001, 4, 24.	0.8	15
82	Nanoflowers: a future therapy for cardiac and ischemic disease?. Nanomedicine, 2013, 8, 1735-1738.	3.3	15
83	Graphene oxides and the angiogenic process. Nanomedicine, 2015, 10, 2959-2962.	3.3	15
84	Fabrication of Gold Nanoparticle for Potential Application in Multiple Myeloma. Journal of Biomedical Nanotechnology, 2008, 4, 499-507.	1.1	14
85	Europium Hydroxide Nanorods (EHNs) Ameliorate Isoproterenol-Induced Myocardial Infarction: An in Vitro and in Vivo Investigation. ACS Applied Bio Materials, 2019, 2, 1078-1087.	4.6	14
86	Therapeutic angiogenesis using zinc oxide nanoflowers for the treatment of hind limb ischemia in a rat model. Biomedical Materials (Bristol), 2021, 16, 044103.	3.3	13
87	Design of DNA-intercalators based copper(II) complexes, investigation of their potential anti-cancer activity and sub-chronic toxicity. Materials Science and Engineering C, 2019, 105, 110079.	7.3	12
88	Formation and stabilization of gold nanoparticles in organo-functionalized MCM-41 mesoporous materials and their catalytic applications. Studies in Surface Science and Catalysis, 2002, 141, 641-646.	1.5	11
89	Antibody modified Bovine Serum Albumin microspheres for targeted delivery of anticancer agent Gemcitabine. Polymers for Advanced Technologies, 2013, 24, 294-299.	3.2	11
90	Identifying Solid Luminogens through Gold-Catalysed Intramolecular Hydroarylation of Alkynes. European Journal of Organic Chemistry, 2015, 2015, 4860-4867.	2.4	11

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91	Green Synthesized Gold Nanoparticles for Future Biomedical Applications. , 2017, , 359-393.		11
92	Acute Toxicity, Biodistribution, and Pharmacokinetics Studies of Pegylated Platinum Nanoparticles in Mouse Model. Advanced NanoBiomed Research, 2021, 1, 2000082.	3.6	11
93	Nanomedicine for Cancer Therapy Using Autophagy: An Overview. Current Topics in Medicinal Chemistry, 2019, 18, 2599-2613.	2.1	11
94	A core-shell nanomaterial with endogenous therapeutic and diagnostic functions. Cancer Nanotechnology, 2010, 1, 13-18.	3.7	10
95	Biocompatible nickel-prussian blue@silver nanocomposites show potent antibacterial activities. Future Science OA, 2017, 3, FSO233.	1.9	10
96	Attenuation of cadmium-induced vascular toxicity by pro-angiogenic nanorods. Materials Science and Engineering C, 2020, 115, 111108.	7.3	10
97	Tin-loaded mesoporous silica nanoparticles: Antineoplastic properties and genotoxicity assessment. , 2022, 137, 212819.		10
98	Europium Hydroxide Nanorods Mitigate Hind Limb Ischemia in Wistar Rats. Advanced Therapeutics, 2021, 4, 2100016.	3.2	8
99	Biomedical applications of green-synthesized metal nanoparticles using polysaccharides. , 2019, , 329-355.		7
100	Syntheses and magnetic properties of nanocrystalline CuCr ₂ Se ₄ . Journal of Non-Crystalline Solids, 2006, 352, 2885-2891.	3.1	6
101	Novel tetraphenylethylene diol amphiphile with aggregation-induced emission: self-assembly, cell imaging and tagging property. Materials Science and Engineering C, 2017, 81, 580-587.	7.3	4
102	Vanadium pentoxide nanomaterials and their role in anti-angiogenesis for cancer treatment. Nanomedicine, 2020, 15, 2643-2646.	3.3	4
103	Zinc oxide nanoparticles: future therapy for cerebral ischemia. Nanomedicine, 2020, 15, 2729-2732.	3.3	4
104	Biologically synthesized gold nanoparticles as a near-infrared-based bioimaging agent. Nanomedicine, 2021, 16, 613-616.	3.3	4
105	Isopropylation of Xylenes Catalyzed by Ultrastable Zeolite Y (USY) and Some Other Solid Acid Catalysts. Journal of Catalysis, 2002, 212, 216-224.	6.2	3
106	Biosynthesized nanoparticles (gold, silver and platinum): Therapeutic role in angiogenesis. Comprehensive Analytical Chemistry, 2021, 94, 471-505.	1.3	2
107	Nanoparticle-based angiogenesis for the recovery of heavy metal-induced vascular toxicity. Nanomedicine, 2021, 16, 351-354.	3.3	2
108	Biomedical applications of silver nitroprusside nanoparticles. Nanomedicine, 2021, 16, 1627-1630.	3.3	2

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109	Therapeutic Applications of Noble Metal (Au, Ag, Pt)-Based Nanomedicines for Melanoma. , 2021, , 161-202.		2
110	Potential Application of Silver Nanocomposites for Antimicrobial Activity. Materials Horizons, 2021, , 93-131.	0.6	2
111	Rare Earth-Based Nanoparticles: Biomedical Applications, Pharmacological and Toxicological Significance. , 2020, , 1-43.		2
112	Nanomedicine: future therapy for brain cancers. , 2021, , 37-74.		1
113	Silver Prussian blue analogue nanomedicine for future cancer therapy. Future Oncology, 2021, 17, 119-122.	2.4	1
114	Green-synthesized nanoparticles for fluorescence bioimaging and diagnostic applications. , 2021, , 153-188.		1
115	Biomedical applications of europium hydroxide nanorods. Nanomedicine, 2022, 17, 5-8.	3.3	1
116	Metal nanoparticles for neurodegenerative diseases. , 2022, , 183-206.		1
117	Entrapment and stabilization of cadmium sulphide (CdS) nanoclusters formed inside propylthiol functionalized MCM-41 mesoporous materials. Studies in Surface Science and Catalysis, 2002, 141, 647-652.	1.5	0
118	Chemical Biologists Meet at ICCB-2014, the First Annual Conference of the Newly Born Chemical Biology Society of India, at the City of Pearls. ACS Chemical Biology, 2014, 9, 1224-1229.	3.4	0
119	Nanomedicine for Ischemic Diseases: Recent Development and Future Challenges. Nanotechnology in the Life Sciences, 2020, , 333-373.	0.6	0