

Chitta Ranjan Patra

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2133035/publications.pdf>

Version: 2024-02-01

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	Biomedical applications of europium hydroxide nanorods. <i>Nanomedicine</i> , 2022, 17, 5-8.	3.3	1
2	Metal nanoparticles for neurodegenerative diseases. , 2022, , 183-206.		1
3	Tin-loaded mesoporous silica nanoparticles: Antineoplastic properties and genotoxicity assessment. , 2022, 137, 212819.		10
4	Nanomedicine: future therapy for brain cancers. , 2021, , 37-74.		1
5	Silver Prussian blue analogue nanomedicine for future cancer therapy. <i>Future Oncology</i> , 2021, 17, 119-122.	2.4	1
6	Manganese-based advanced nanoparticles for biomedical applications: future opportunity and challenges. <i>Nanoscale</i> , 2021, 13, 16405-16426.	5.6	32
7	Green-synthesized nanoparticles for fluorescence bioimaging and diagnostic applications. , 2021, , 153-188.		1
8	Biosynthesized nanoparticles (gold, silver and platinum): Therapeutic role in angiogenesis. <i>Comprehensive Analytical Chemistry</i> , 2021, 94, 471-505.	1.3	2
9	Nanoparticle-based angiogenesis for the recovery of heavy metal-induced vascular toxicity. <i>Nanomedicine</i> , 2021, 16, 351-354.	3.3	2
10	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
11	Therapeutic angiogenesis using zinc oxide nanoflowers for the treatment of hind limb ischemia in a rat model. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 044103.	3.3	13
12	Europium Hydroxide Nanorods Mitigate Hind Limb Ischemia in Wistar Rats. <i>Advanced Therapeutics</i> , 2021, 4, 2100016.	3.2	8
13	Biologically synthesized gold nanoparticles as a near-infrared-based bioimaging agent. <i>Nanomedicine</i> , 2021, 16, 613-616.	3.3	4
14	Acute Toxicity, Biodistribution, and Pharmacokinetics Studies of Pegylated Platinum Nanoparticles in Mouse Model. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2000082.	3.6	11
15	Biomedical applications of silver nitroprusside nanoparticles. <i>Nanomedicine</i> , 2021, 16, 1627-1630.	3.3	2
16	Therapeutic Applications of Noble Metal (Au, Ag, Pt)-Based Nanomedicines for Melanoma. , 2021, , 161-202.		2
17	Potential Application of Silver Nanocomposites for Antimicrobial Activity. <i>Materials Horizons</i> , 2021, , 93-131.	0.6	2
18	Biosynthesized Silver Nanoparticles for Cancer Therapy and In Vivo Bioimaging. <i>Cancers</i> , 2021, 13, 6114.	3.7	30

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Vanadium pentoxide nanomaterials and their role in anti-angiogenesis for cancer treatment. <i>Nanomedicine</i> , 2020, 15, 2643-2646.	3.3	4
22	Zinc oxide nanoparticles: future therapy for cerebral ischemia. <i>Nanomedicine</i> , 2020, 15, 2729-2732.	3.3	4
23	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
24	Anti-angiogenic vanadium pentoxide nanoparticles for the treatment of melanoma and their <i>in vivo</i> toxicity study. <i>Nanoscale</i> , 2020, 12, 7604-7621.	5.6	54
25	Potential Therapeutic Application of Zinc Oxide Nanoflowers in the Cerebral Ischemia Rat Model through Neuritogenic and Neuroprotective Properties. <i>Bioconjugate Chemistry</i> , 2020, 31, 895-906.	3.6	24
26	Attenuation of cadmium-induced vascular toxicity by pro-angiogenic nanorods. <i>Materials Science and Engineering C</i> , 2020, 115, 111108.	7.3	10
27	Rare Earth-Based Nanoparticles: Biomedical Applications, Pharmacological and Toxicological Significance. , 2020, , 1-43.		2
28	Nanomedicine for Ischemic Diseases: Recent Development and Future Challenges. <i>Nanotechnology in the Life Sciences</i> , 2020, , 333-373.	0.6	0
29	Engineered Nanoparticles for Effective Redox Signaling During Angiogenic and Antiangiogenic Therapy. <i>Antioxidants and Redox Signaling</i> , 2019, 30, 786-809.	5.4	28
30	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
31	Biomedical applications of green-synthesized metal nanoparticles using polysaccharides. , 2019, , 329-355.		7
32	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
33	Design of DNA-intercalators based copper(II) complexes, investigation of their potential anti-cancer activity and sub-chronic toxicity. <i>Materials Science and Engineering C</i> , 2019, 105, 110079.	7.3	12
34	<i>In vivo</i> targeting of DNA vaccines to dendritic cells using functionalized gold nanoparticles. <i>Biomaterials Science</i> , 2019, 7, 773-788.	5.4	60
35	Restoration of p53 Function in Ovarian Cancer Mediated by Gold Nanoparticle-Based EGFR Targeted Gene Delivery System. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3631-3644.	5.2	25
36	Recent advances in inorganic nanomaterials for wound-healing applications. <i>Biomaterials Science</i> , 2019, 7, 2652-2674.	5.4	188

#	ARTICLE	IF	CITATIONS
37	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
38	Therapeutic applications of green-synthesized silver nanoparticles. , 2019, , 389-428.		24
39	Europium Hydroxide Nanorods (EHNs) Ameliorate Isoproterenol-Induced Myocardial Infarction: An in Vitro and in Vivo Investigation. <i>ACS Applied Bio Materials</i> , 2019, 2, 1078-1087.	4.6	14
40	Nanomedicine for Cancer Therapy Using Autophagy: An Overview. <i>Current Topics in Medicinal Chemistry</i> , 2019, 18, 2599-2613.	2.1	11
41	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
42	Au-CGKRK Nanoconjugates for Combating Cancer through T-Cell-Driven Therapeutic RNA Interference. <i>ACS Omega</i> , 2018, 3, 8663-8676.	3.5	20
43	An efficient strategy to assemble water soluble histidine-erythrin 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
44	Gold nanoparticles conjugated quercetin induces apoptosis via inhibition of EGFR/PI3K/Akt mediated pathway in breast cancer cell lines (MCF7 and MDA-MB231). <i>Cell Biochemistry and Function</i> , 2017, 35, 217-231.	2.9	131
45	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
46	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
47	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
48	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
49	Green Synthesized Gold Nanoparticles for Future Biomedical Applications. , 2017, , 359-393.		11
50	Multifunctional (3-in-1) cancer theranostics applications of hydroxyquinoline-appended polyfluorene nanoparticles. <i>Chemical Science</i> , 2017, 8, 7566-7575.	7.4	32
51	Biocompatible nickel-prussian blue@silver nanocomposites show potent antibacterial activities. <i>Future Science OA</i> , 2017, 3, FSO233.	1.9	10
52	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
53	Novel tetraphenylethylene diol amphiphile with aggregation-induced emission: self-assembly, cell imaging and tagging property. <i>Materials Science and Engineering C</i> , 2017, 81, 580-587.	7.3	4
54	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

#	ARTICLE	IF	CITATIONS
55	Functionalized nanoceria exhibit improved angiogenic properties. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9371-9383.	5.8	46
56	Biologically synthesized metal nanoparticles: recent advancement and future perspectives in cancer theranostics. <i>Future Science OA</i> , 2017, 3, FSO203.	1.9	63
57	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
58	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
59	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
60	Curcumin loaded mesoporous silica: an effective drug delivery system for cancer treatment. <i>Biomaterials Science</i> , 2016, 4, 448-459.	5.4	107
61	Therapeutic application of anti-angiogenic nanomaterials in cancers. <i>Nanoscale</i> , 2016, 8, 12444-12470.	5.6	126
62	Prussian blue nanoparticles and their analogues for application to cancer theranostics. <i>Nanomedicine</i> , 2016, 11, 569-572.	3.3	48
63	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
64	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
65	Graphene Oxides Show Angiogenic Properties. <i>Advanced Healthcare Materials</i> , 2015, 4, 1722-1732.	7.6	170
66	Identifying Solid Luminogens through Gold-Catalysed Intramolecular Hydroarylation of Alkynes. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 4860-4867.	2.4	11
67	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
68	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
69	Copper Prussian blue analogue: investigation into multifunctional activities for biomedical applications. <i>Chemical Communications</i> , 2015, 51, 7325-7328.	4.1	44
70	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
71	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
72	Investigation of molecular mechanisms and regulatory pathways of pro-angiogenic nanorods. <i>Nanoscale</i> , 2015, 7, 9760-9770.	5.6	51

#	ARTICLE	IF	CITATIONS
73	A green chemistry approach for the synthesis of gold nanoconjugates that induce the inhibition of cancer cell proliferation through induction of oxidative stress and their in vivo toxicity study. Journal of Materials Chemistry B, 2015, 3, 3820-3830.	5.8	80
74	Graphene oxides and the angiogenic process. Nanomedicine, 2015, 10, 2959-2962.	3.3	15
75	Differential ERK activation during autophagy induced by europium hydroxide nanorods and trehalose: Maximum clearance of huntingtin aggregates through combined treatment. Biomaterials, 2015, 73, 160-174.	11.4	31
76	Biosynthesized silver nanoparticles: a step forward for cancer theranostics?. Nanomedicine, 2014, 9, 1445-1448.	3.3	70
77	meso-Substituted BODIPY fluorescent probes for cellular bio-imaging and anticancer activity. RSC Advances, 2014, 4, 47409-47413.	3.6	27
78	Potential Theranostics Application of Bio-Synthesized Silver Nanoparticles (4-in-1 System). Theranostics, 2014, 4, 316-335.	10.0	421
79	Cancer cell-selective promoter recognition accompanies antitumor effect by glucocorticoid receptor-targeted gold nanoparticle. Nanoscale, 2014, 6, 6745.	5.6	52
80	Bioconjugated gold nanoparticles accelerate the growth of new blood vessels through redox signaling. Chemical Communications, 2014, 50, 14367-14370.	4.1	77
81	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
82	Donor atom selective coordination of Fe ³⁺ and Cr ³⁺ trigger fluorophore specific emission in a rhodamine-naphthalimide dyad. RSC Advances, 2014, 4, 24324-24327.	3.6	34
83	Accelerating the clearance of mutant huntingtin protein aggregates through autophagy induction by europium hydroxide nanorods. Biomaterials, 2014, 35, 899-907.	11.4	60
84	A luminescent nanoporous hybrid material based drug delivery system showing excellent theranostics potential for cancer. Chemical Communications, 2013, 49, 7644.	4.1	37
85	Antibody modified Bovine Serum Albumin microspheres for targeted delivery of anticancer agent Gemcitabine. Polymers for Advanced Technologies, 2013, 24, 294-299.	3.2	11
86	Potential therapeutic and diagnostic applications of one-step in situ biosynthesized gold nanoconjugates (2-in-1 system) in cancer treatment. RSC Advances, 2013, 3, 2318.	3.6	63
87	Nanoflowers: a future therapy for cardiac and ischemic disease?. Nanomedicine, 2013, 8, 1735-1738.	3.3	15
88	Zinc oxide nanoflowers make new blood vessels. Nanoscale, 2012, 4, 7861.	5.6	143
89	Green chemistry approach for the synthesis and stabilization of biocompatible gold nanoparticles and their potential applications in cancer therapy. Nanotechnology, 2012, 23, 455103.	2.6	161
90	Chemically Modified Peptides Targeting the PDZ Domain of GIPC as a Therapeutic Approach for Cancer. ACS Chemical Biology, 2012, 7, 770-779.	3.4	36

#	ARTICLE	IF	CITATIONS
91	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
92	Cytotoxicity of naphthoquinones and their capacity to generate reactive oxygen species is quenched when conjugated with gold nanoparticles. <i>International Journal of Nanomedicine</i> , 2011, 6, 2113.	6.7	21
93	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
94	Reactive Oxygen Species Driven Angiogenesis by Inorganic Nanorods. <i>Nano Letters</i> , 2011, 11, 4932-4938.	9.1	74
95	Fabrication of gold nanoparticles for targeted therapy in pancreatic cancer. <i>Advanced Drug Delivery Reviews</i> , 2010, 62, 346-361.	13.7	376
96	A core-shell nanomaterial with endogenous therapeutic and diagnostic functions. <i>Cancer Nanotechnology</i> , 2010, 1, 13-18.	3.7	10
97	RGS-GAIPI-Interacting Protein Controls Breast Cancer Progression. <i>Molecular Cancer Research</i> , 2010, 8, 1591-1600.	3.4	19
98	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
99	Fabrication and functional characterization of gold nanoconjugates for potential application in ovarian cancer. <i>Journal of Materials Chemistry</i> , 2010, 20, 547-554.	6.7	85
100	In vivo toxicity studies of europium hydroxide nanorods in mice. <i>Toxicology and Applied Pharmacology</i> , 2009, 240, 88-98.	2.8	90
101	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
102	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
103	Fabrication of Gold Nanoparticle for Potential Application in Multiple Myeloma. <i>Journal of Biomedical Nanotechnology</i> , 2008, 4, 499-507.	1.1	14
104	Targeted Delivery of Gemcitabine to Pancreatic Adenocarcinoma Using Cetuximab as a Targeting Agent. <i>Cancer Research</i> , 2008, 68, 1970-1978.	0.9	332
105	Application of Gold Nanoparticles for Targeted Therapy in Cancer. <i>Journal of Biomedical Nanotechnology</i> , 2008, 4, 99-132.	1.1	68
106	Lanthanide Phosphate Nanorods as Inorganic Fluorescent Labels in Cell Biology Research. <i>Clinical Chemistry</i> , 2007, 53, 2029-2031.	3.2	41
107	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
108	Syntheses and magnetic properties of nanocrystalline CuCr ₂ Se ₄ . <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 2885-2891.	3.1	6

#	ARTICLE	IF	CITATIONS
109	Inorganic phosphate nanorods are a novel fluorescent label in cell biology. Journal of Nanobiotechnology, 2006, 4, 11.	9.1	53
110	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
111	Microwave approach for the synthesis of rhabdophane-type lanthanide orthophosphate (Ln = La, Ce). Tj ETQq1 1 0.784314 rgBT /Over 733.	2.8	106
112	Microwave-assisted synthesis of submicrometer $\text{GaO}(\text{OH})$ and Ga_2O_3 rods. Journal of Nanoparticle Research, 2004, 6, 509-518.	1.9	34
113	Rapid synthesis of nanoparticles of hexagonal type In_2O_3 and spherical type Tl_2O_3 by microwave irradiation. New Journal of Chemistry, 2004, 28, 1060.	2.8	48
114	Preparation and stabilization of gold nanoparticles formed by in situ reduction of aqueous chloroaurate ions within surface-modified mesoporous silica. Microporous and Mesoporous Materials, 2003, 58, 201-211.	4.4	96
115	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
116	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
117	Characterization and Catalytic Activity of Gold Nanoparticles Synthesized by Autoreduction of Aqueous Chloroaurate Ions with Fumed Silica. Chemistry of Materials, 2002, 14, 1678-1684.	6.7	107
118	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
119	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