

Parimal Karmakar

List of Publications by Year in descending order

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96
papers

7,675
citations

126907

33
h-index

51608

86
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104
all docs

104
docs citations

104
times ranked

17233
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison on the biochemical activities of Fluorescein disodium, Rose Bengal and Rhodamine 101 in the light of DNA binding, antimicrobial and cytotoxic study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 9848-9859.	3.5	8
2	Synthesis and characterization of a mononuclear nickel(II) complex with N,O-donor ligand: Its DNA/HSA protein binding properties and tumor suppressive function. <i>Journal of Molecular Structure</i> , 2022, 1250, 131687.	3.6	4
3	Aza-Crown-Based Macrocyclic Probe Design for PET-off -Multi- Cu^{2+} Responsive and CHEF-on -Multi- Zn^{2+} Sensor: Application in Biological Cell Imaging and Theoretical Studies. <i>Inorganic Chemistry</i> , 2022, 61, 1982-1996.	4.0	5
4	DNA damage induced cellular senescence and its PTEN-armed exosomes—the warriors against prostate carcinoma cells. <i>Medical Oncology</i> , 2022, 39, 34.	2.5	4
5	Immunomodulatory activity of ethanol extract of <i>Annona reticulata</i> L. leaf in cultured immune cells and in Swiss albino mice. <i>Journal of Ayurveda and Integrative Medicine</i> , 2022, 13, 100554.	1.7	0
6	A CobaltII/CobaltIII complex of alizarin that was analyzed from the stand point of binding with DNA, for ROS generation and anticancer drug prospecting was identified as an analogue of anthracyclines. <i>Journal of Molecular Structure</i> , 2022, 1262, 133011.	3.6	2
7	Real-time sensitive detection of Cr (VI) in industrial wastewater and living cells using carbon dot decorated natural kyanite nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 273, 121061.	3.9	3
8	Biocompatible Carbon Dot Decorated FeOOH Nanohybrid for an Effective Fluorometric Sensing of Cr (VI) in Wastewater and Living Cells. <i>Journal of Fluorescence</i> , 2022, 32, 1489-1500.	2.5	2
9	Exosomal long noncoding RNAs—the lead thespian behind the regulation, cause and cure of autophagy-related diseases. <i>Molecular Biology Reports</i> , 2022, 49, 7013-7024.	2.3	2
10	Evaluation of wound healing activity of ethanol extract of <i>Annona reticulata</i> L. leaf both in vitro and in diabetic mice model. <i>Journal of Traditional and Complementary Medicine</i> , 2021, 11, 27-37.	2.7	19
11	Utilization of Guanidine-Based Ancillary Ligands in Arene-Ruthenium Complexes for Selective Cytotoxicity. <i>ACS Omega</i> , 2021, 6, 8226-8238.	3.5	7
12	Green synthesis of silver nanoparticles having specific anticancer activity against MDA-MB 468 carcinoma cells. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2021, 12, 025017.	1.5	3
13	Copper oxide nanoparticle and copper sulfate induced impairment of innate immune parameters in a common Indian sponge. <i>Journal of Hazardous Materials Letters</i> , 2021, 2, 100036.	3.6	0
14	Non-canonical function of nuclear PTEN and its implication on tumorigenesis. <i>DNA Repair</i> , 2021, 107, 103197.	2.8	12
15	Expanded polystyrene microplastic is more cytotoxic to seastar coelomocytes than its nonexpanded counterpart: A comparative analysis. <i>Journal of Hazardous Materials Letters</i> , 2021, 2, 100031.	3.6	3
16	Development of Rhodamine 6G-Based Fluorescent Chemosensors for Al^{3+} -Ion Detection: Effect of Ring Strain and Substituent in Enhancing Its Sensing Performance. <i>ACS Omega</i> , 2020, 5, 145-157.	3.5	30
17	Effects of copper oxide nanoparticle on gill filtration rate, respiration rate, hemocyte associated immune parameters and oxidative status of an Indian freshwater mussel. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2020, 237, 108855.	2.6	12
18	Stem Cell Aging and Regenerative Medicine. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1326, 11-37.	1.6	11

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19	E2F5 promotes prostate cancer cell migration and invasion through regulation of TFPI2, MMP-2 and MMP-9. <i>Carcinogenesis</i> , 2020, 41, 1767-1780.	2.8	22
20	Facile synthesis of antibiotic encapsulated biopolymeric okra mucilage nanoparticles: molecular docking, <i>in vitro</i> stability and functional evaluation. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2020, 11, 025020.	1.5	1
21	Essential oil impregnated luminescent hydroxyapatite: Antibacterial and cytotoxicity studies. <i>Materials Science and Engineering C</i> , 2020, 116, 111190.	7.3	10
22	Radioprotection of thymine and calf thymus DNA by an azo compound: mechanism of action followed by DPPH radical quenching & ROS depletion in WI 38 lung fibroblast cells. <i>Heliyon</i> , 2020, 6, e04036.	3.2	6
23	The development of two fluorescent chemosensors for the selective detection of Zn ²⁺ and Al ³⁺ ions in a quinoline platform by tuning the substituents in the receptor part: elucidation of the structures of the metal-bound chemosensors and biological studies. <i>Dalton Transactions</i> , 2020, 49, 4758-4773.	3.3	41
24	Green cardamom mediated phytosynthesis of ZnONPs and validation of its antibacterial and anticancerous potential. <i>Materials Research Express</i> , 2020, 7, 015068.	1.6	6
25	The protective role of metformin in autophagic status in peripheral blood mononuclear cells of type 2 diabetic patients. <i>Cell Biology International</i> , 2020, 44, 1628-1639.	3.0	3
26	A mechanistic insight into the bioaccessible herbometallic nanodrug as potential dual therapeutic agent. <i>Materials Today Communications</i> , 2020, 24, 101099.	1.9	1
27	4-Methyl-2,6-diformylphenol based biocompatible chemosensors for pH: discrimination between normal cells and cancer cells. <i>RSC Advances</i> , 2020, 10, 15501-15513.	3.6	13
28	Gum acacia capped ZnO nanoparticles, a smart biomaterial for cell imaging and therapeutic applications. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2020, 11, 035015.	1.5	2
29	Nanoparticle Size-Dependent Antibacterial Activities in Natural Minerals. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 7112-7122.	0.9	37
30	Fabrication of SERS active Langmuir-Blodgett Film substrate for screening human cancer cell lines: Experimental observations supported by multivariate data analyses. <i>Sensors and Actuators B: Chemical</i> , 2019, 299, 126962.	7.8	15
31	pH-Responsive Mn-Doped Carbon Dots for White-Light-Emitting Diodes, Fingerprinting, and Bioimaging. <i>ACS Applied Nano Materials</i> , 2019, 2, 5900-5909.	5.0	51
32	Characterization of a MnII complex of Alizarin suggests attributes explaining a superior anticancer activity: A comparison with anthracycline drugs. <i>Polyhedron</i> , 2019, 173, 114104.	2.2	3
33	Natural product inspired allicin analogs as novel anti-cancer agents. <i>Bioorganic Chemistry</i> , 2019, 86, 259-272.	4.1	14
34	Fabrication of curcumin-loaded folic acid-tagged metal organic framework for triple negative breast cancer therapy in <i>in vitro</i> and <i>in vivo</i> systems. <i>New Journal of Chemistry</i> , 2019, 43, 217-229.	2.8	54
35	Acetylation of Werner protein at K1127 and K1117 is important for nuclear trafficking and DNA repair. <i>DNA Repair</i> , 2019, 79, 22-31.	2.8	6
36	A novel triazole, NMK-T-057, induces autophagic cell death in breast cancer cells by inhibiting β -secretase-mediated activation of Notch signaling. <i>Journal of Biological Chemistry</i> , 2019, 294, 6733-6750.	3.4	23

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37	An <i>In Vivo</i> Study for Targeted Delivery of Curcumin in Human Triple Negative Breast Carcinoma Cells Using Biocompatible PLGA Microspheres Conjugated with Folic Acid. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3720-3733.	0.9	17
38	Functionalised biomimetic hydroxyapatite NPs as potential agent against pathogenic multidrug-resistant bacteria. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2019, 10, 045017.	1.5	3
39	2-hydroxy-5-methylisophthalaldehyde based fluorescent-colorimetric chemosensor for dual detection of Zn ²⁺ and Cu ²⁺ with high sensitivity and application in live cell imaging. <i>Journal of Luminescence</i> , 2019, 205, 14-22.	3.1	38
40	In situ synthesized lactobionic acid conjugated NMOFs, a smart material for imaging and targeted drug delivery in hepatocellular carcinoma. <i>Materials Science and Engineering C</i> , 2019, 98, 772-781.	7.3	32
41	Folic acid conjugated curcumin loaded biopolymeric gum acacia microsphere for triple negative breast cancer therapy in invitro and invivo model. <i>Materials Science and Engineering C</i> , 2019, 95, 204-216.	7.3	88
42	Thionine Conjugated Gold Nanoparticles Trigger Apoptotic Activity Toward HepG2 Cancer Cell Line. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 635-646.	5.2	13
43	Immunotoxicity of copper nanoparticle and copper sulfate in a common Indian earthworm. <i>Ecotoxicology and Environmental Safety</i> , 2018, 148, 620-631.	6.0	65
44	An aminoquinoline based biocompatible fluorescent and colourimetric pH sensor designed for cancer cell discrimination. <i>New Journal of Chemistry</i> , 2018, 42, 19818-19826.	2.8	33
45	Syntheses, crystal structures, DNA binding, DNA cleavage and DFT study of Co(III) complexes involving azo-appended Schiff base ligands. <i>New Journal of Chemistry</i> , 2018, 42, 16571-16582.	2.8	6
46	Acidic domain of WRNp is critical for autophagy and up-regulates age associated proteins. <i>DNA Repair</i> , 2018, 68, 1-11.	2.8	7
47	Antimicrobial and biocompatible fluorescent hydroxyapatite-chitosan nanocomposite films for biomedical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 171, 300-307.	5.0	45
48	Is autophagy associated with diabetes mellitus and its complications? A review. <i>EXCLI Journal</i> , 2018, 17, 709-720.	0.7	42
49	Synthesis of multifunctional upconversion NMOFs for targeted antitumor drug delivery and imaging in triple negative breast cancer cells. <i>Chemical Engineering Journal</i> , 2017, 319, 200-211.	12.7	69
50	Cu ^{II} complex of emodin with improved anticancer activity as demonstrated by its performance on HeLa and Hep G2 cells. <i>RSC Advances</i> , 2017, 7, 41403-41418.	3.6	18
51	⁶³ radiation-induced damage of nucleic acid bases, calf thymus DNA and DNA within MCF-7 breast cancer cells by [Cu ₂ (OAc) ₄ (tnz) ₂]: a potential radiosensitizer. <i>New Journal of Chemistry</i> , 2017, 41, 11679-11685.	2.8	4
52	A Schiff Base Macrocyclic Ligand and Its Mg(II) and Cd(II) Complexes: Spectral Properties with Theoretical Understanding and Biological Activity. <i>ChemistrySelect</i> , 2017, 2, 11832-11839.	1.5	7
53	Synthesis, crystal structure from PXRD of a Mn ^{II} (purp) ₂ complex, interaction with DNA at different temperatures and pH and lack of stimulated ROS formation by the complex. <i>RSC Advances</i> , 2016, 6, 51520-51532.	3.6	17
54	An in-vivo study for targeted delivery of copper-organic complex to breast cancer using chitosan polymer nanoparticles. <i>Materials Science and Engineering C</i> , 2016, 68, 327-337.	7.3	56

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55	Biochemical activity of a fluorescent dye rhodamine 6G: Molecular modeling, electrochemical, spectroscopic and thermodynamic studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 164, 369-379.	3.8	17
56	One-pot synthesis of folic acid encapsulated upconversion nanoscale metal organic frameworks for targeting, imaging and pH responsive drug release. <i>Dalton Transactions</i> , 2016, 45, 18120-18132.	3.3	108
57	Synthesis of highly fluorescent nitrogen and phosphorus doped carbon dots for the detection of Fe ³⁺ ions in cancer cells. <i>Luminescence</i> , 2016, 31, 81-87.	2.9	142
58	The Water Fraction of <i>Calendula officinalis</i> Hydroethanol Extract Stimulates <i>In Vitro</i> and <i>In Vivo</i> Proliferation of Dermal Fibroblasts in Wound Healing. <i>Phytotherapy Research</i> , 2016, 30, 1696-1707.	5.8	37
59	One-pot synthesis of carbon dot-entrenched chitosan-modified magnetic nanoparticles for fluorescence-based Cu ²⁺ ion sensing and cell imaging. <i>RSC Advances</i> , 2016, 6, 58979-58987.	3.6	34
60	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
61	Evaluation of Different Oxidative Stress Parameters and Apoptosis in Human Cervical Cancer Cells Exposed to Rod and Spherical Shaped Zinc Oxide Nanoparticles. <i>BioNanoScience</i> , 2016, 6, 1-14.	3.5	9
62	PI3K-Mediated Proliferation of Fibroblasts by <i>Calendula officinalis</i> Tincture: Implication in Wound Healing. <i>Phytotherapy Research</i> , 2015, 29, 607-616.	5.8	42
63	Morphology-Directing Synthesis of Rhodamine-Based Fluorophore Microstructures and Application toward Extra- and Intracellular Detection of Hg ²⁺ . <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7476-7485.	8.0	37
64	Targeted delivery of copper carbonate nanoparticles to cancer cells in vivo. <i>Toxicology Research</i> , 2015, 4, 1604-1612.	2.1	17
65	Folic acid modified copper oxide nanoparticles for targeted delivery in in vitro and in vivo systems. <i>RSC Advances</i> , 2015, 5, 68169-68178.	3.6	56
66	Self assembled nano fibers of betulinic acid: A selective inducer for ROS/TNF-alpha pathway mediated leukemic cell death. <i>Bioorganic Chemistry</i> , 2015, 63, 85-100.	4.1	36
67	Influence of ionic strength on the interaction of THA and its Cu(II) complex with DNA helps to explain studies on various breast cancer cells. <i>RSC Advances</i> , 2015, 5, 73099-73111.	3.6	15
68	Quinoline based reversible fluorescent "turn-on" chemosensor for the selective detection of Zn ²⁺ : Application in living cell imaging and as INHIBIT logic gate. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 138-146.	7.8	65
69	A novel drug copper acetylacetonate-loaded in folic acid-tagged chitosan nanoparticle for efficient cancer cell targeting. <i>Journal of Drug Targeting</i> , 2014, 22, 23-33.	4.4	28
70	Interplay between autophagy and apoptosis mediated by copper oxide nanoparticles in human breast cancer cells MCF7. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 1-9.	2.4	111
71	Transient overexpression of Werner protein rescues starvation induced autophagy in Werner syndrome cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 2387-2394.	3.8	15
72	Phosphorylation of PTEN at STT motif is associated with DNA damage response. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2014, 770, 112-119.	1.0	12

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73	Al ³⁺ selective coumarin based reversible chemosensor: application in living cell imaging and as integrated molecular logic gate. RSC Advances, 2014, 4, 30666-30672.	3.6	36
74	Shape-dependent bactericidal activity of copper oxide nanoparticle mediated by DNA and membrane damage. Materials Research Bulletin, 2014, 59, 185-191.	5.2	77
75	Differential Toxicity of Rod and Spherical Zinc Oxide Nanoparticles on Human Peripheral Blood Mononuclear Cells. Journal of Biomedical Nanotechnology, 2014, 10, 707-716.	1.1	45
76	Serines 440 and 467 in the Werner syndrome protein are phosphorylated by DNA-PK and affects its dynamics in response to DNA double strand breaks. Aging, 2014, 6, 70-81.	3.1	22
77	Attenuation of PTEN perturbs genomic stability via activation of Akt and downregulation of Rad51 in human embryonic kidney cells. Molecular Carcinogenesis, 2013, 52, 611-618.	2.7	20
78	Multinucleation regulated by the Akt/PTEN signaling pathway is a survival strategy for HepG2 cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2013, 755, 135-140.	1.7	14
79	Syntheses, characterizations and biophysical studies of Cu(II) diphenylphosphate complexes: Effect of co-ligands on their biological properties. Polyhedron, 2012, 48, 157-166.	2.2	6
80	A novel Cu(II)-malonic picoline complex induces mitotic catastrophe mediated by deacetylation of histones and α -tubulin leading to apoptosis in human cell lines. MedChemComm, 2012, 3, 1393.	3.4	4
81	Evaluation of copper iodide and copper phosphate nanoparticles for their potential cytotoxic effect. Toxicology Research, 2012, 1, 131.	2.1	23
82	Recruitment of HRDC domain of WRN and BLM to the sites of DNA damage induced by mitomycin C and methyl methanesulfonate. Cell Biology International, 2012, 36, 873-881.	3.0	6
83	Antibacterial Activities of Polyethylene Glycol, Tween 80 and Sodium Dodecyl Sulphate Coated Silver Nanoparticles in Normal and Multi-Drug Resistant Bacteria. Journal of Nanoscience and Nanotechnology, 2012, 12, 2513-2521.	0.9	26
84	A novel study of antibacterial activity of copper iodide nanoparticle mediated by DNA and membrane damage. Colloids and Surfaces B: Biointerfaces, 2012, 96, 50-55.	5.0	158
85	Recruitment and retention dynamics of RECQL5 at DNA double strand break sites. DNA Repair, 2012, 11, 624-635.	2.8	29
86	Inactivation of PTEN is responsible for the survival of Hep G2 cells in response to etoposide-induced damage. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2011, 715, 42-51.	1.0	8
87	The involvement of human RECQL4 in DNA double-strand break repair. Aging Cell, 2010, 9, 358-371.	6.7	76
88	Caffeine augments Alprazolam induced cytotoxicity in human cell lines. Toxicology in Vitro, 2009, 23, 1100-1109.	2.4	9
89	BLM is an early responder to DNA double-strand breaks. Biochemical and Biophysical Research Communications, 2006, 348, 62-69.	2.1	64
90	Werner syndrome protein participates in a complex with RAD51, RAD54, RAD54B and ATR in response to ICL-induced replication arrest. Journal of Cell Science, 2006, 119, 5137-5146.	2.0	77

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91	Cellular dynamics and modulation of WRN protein is DNA damage specific. Mechanisms of Ageing and Development, 2005, 126, 1146-1158.	4.6	42
92	The Processing of Holliday Junctions by BLM and WRN Helicases Is Regulated by p53. Journal of Biological Chemistry, 2002, 277, 31980-31987.	3.4	107
93	Ku heterodimer binds to both ends of the Werner protein and functional interaction occurs at the Werner N-terminus. Nucleic Acids Research, 2002, 30, 3583-3591.	14.5	86
94	Colocalization, Physical, and Functional Interaction between Werner and Bloom Syndrome Proteins. Journal of Biological Chemistry, 2002, 277, 22035-22044.	3.4	119
95	Werner Protein Is a Target of DNA-dependent Protein Kinase in Vivo and in Vitro, and Its Catalytic Activities Are Regulated by Phosphorylation. Journal of Biological Chemistry, 2002, 277, 18291-18302.	3.4	141
96	PTEN: Sumoylation Function is the Key to the Maintenance of Genomic Stability of Cell. Nano LIFE, 0, , .	0.9	0