

# 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  
g-index

104  
all docs

104  
docs citations

104  
times ranked

17233  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	A novel study of antibacterial activity of copper iodide nanoparticle mediated by DNA and membrane damage. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 96, 50-55.	5.0	158
3	Synthesis of highly fluorescent nitrogen and phosphorus doped carbon dots for the detection of Fe <sup>3+</sup> ions in cancer cells. <i>Luminescence</i> , 2016, 31, 81-87.	2.9	142
4	Werner Protein Is a Target of DNA-dependent Protein Kinase in Vivo and in Vitro, and Its Catalytic Activities Are Regulated by Phosphorylation. <i>Journal of Biological Chemistry</i> , 2002, 277, 18291-18302.	3.4	141
5	Colocalization, Physical, and Functional Interaction between Werner and Bloom Syndrome Proteins. <i>Journal of Biological Chemistry</i> , 2002, 277, 22035-22044.	3.4	119
6	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
7	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
8	The Processing of Holliday Junctions by BLM and WRN Helicases Is Regulated by p53. <i>Journal of Biological Chemistry</i> , 2002, 277, 31980-31987.	3.4	107
9	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
10	Ku heterodimer binds to both ends of the Werner protein and functional interaction occurs at the Werner N-terminus. <i>Nucleic Acids Research</i> , 2002, 30, 3583-3591.	14.5	86
11	Werner syndrome protein participates in a complex with RAD51, RAD54, RAD54B and ATR in response to ICL-induced replication arrest. <i>Journal of Cell Science</i> , 2006, 119, 5137-5146.	2.0	77
12	Shape-dependent bactericidal activity of copper oxide nanoparticle mediated by DNA and membrane damage. <i>Materials Research Bulletin</i> , 2014, 59, 185-191.	5.2	77
13	The involvement of human RECQL4 in DNA double-strand break repair. <i>Aging Cell</i> , 2010, 9, 358-371.	6.7	76
14	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
15	Quinoline based reversible fluorescent "turn-on" chemosensor for the selective detection of Zn <sup>2+</sup> : Application in living cell imaging and as INHIBIT logic gate. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 138-146.	7.8	65
16	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
17	BLM is an early responder to DNA double-strand breaks. <i>Biochemical and Biophysical Research Communications</i> , 2006, 348, 62-69.	2.1	64
18	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

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19	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
20	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
21	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
22	Differential Toxicity of Rod and Spherical Zinc Oxide Nanoparticles on Human Peripheral Blood Mononuclear Cells. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 707-716.	1.1	45
23	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
24	Cellular dynamics and modulation of WRN protein is DNA damage specific. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 1146-1158.	4.6	42
25	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
26	Is autophagy associated with diabetes mellitus and its complications? A review. <i>EXCLI Journal</i> , 2018, 17, 709-720.	0.7	42
27	The development of two fluorescent chemosensors for the selective detection of Zn <sup>2+</sup> and Al <sup>3+</sup> 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
28	2-hydroxy-5-methylisophthalaldehyde based fluorescent-colorimetric chemosensor for dual detection of Zn <sup>2+</sup> and Cu <sup>2+</sup> with high sensitivity and application in live cell imaging. <i>Journal of Luminescence</i> , 2019, 205, 14-22.	3.1	38
29	Morphology-Directing Synthesis of Rhodamine-Based Fluorophore Microstructures and Application toward Extra- and Intracellular Detection of Hg <sup>2+</sup> . <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 7476-7485.	8.0	37
30	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
31	Nanoparticle Size-Dependent Antibacterial Activities in Natural Minerals. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 7112-7122.	0.9	37
32	Al <sup>3+</sup> selective coumarin based reversible chemosensor: application in living cell imaging and as integrated molecular logic gate. <i>RSC Advances</i> , 2014, 4, 30666-30672.	3.6	36
33	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
34	One-pot synthesis of carbon dot-entrenched chitosan-modified magnetic nanoparticles for fluorescence-based Cu <sup>2+</sup> ion sensing and cell imaging. <i>RSC Advances</i> , 2016, 6, 58979-58987.	3.6	34
35	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
36	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

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37	Development of Rhodamine 6G-Based Fluorescent Chemosensors for Al <sup>3+</sup> -Ion Detection: Effect of Ring Strain and Substituent in Enhancing Its Sensing Performance. ACS Omega, 2020, 5, 145-157.	3.5	30
38	Recruitment and retention dynamics of RECQL5 at DNA double strand break sites. DNA Repair, 2012, 11, 624-635.	2.8	29
39	A novel drug "copper acetylacetonate" loaded in folic acid-tagged chitosan nanoparticle for efficient cancer cell targeting. Journal of Drug Targeting, 2014, 22, 23-33.	4.4	28
40	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
41	Evaluation of copper iodide and copper phosphate nanoparticles for their potential cytotoxic effect. Toxicology Research, 2012, 1, 131.	2.1	23
42	A novel triazole, NMK-T-057, induces autophagic cell death in breast cancer cells by inhibiting $\beta$ -secretase-mediated activation of Notch signaling. Journal of Biological Chemistry, 2019, 294, 6733-6750.	3.4	23
43	E2F5 promotes prostate cancer cell migration and invasion through regulation of TFPI2, MMP-2 and MMP-9. Carcinogenesis, 2020, 41, 1767-1780.	2.8	22
44	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
45	Attenuation of PTEN perturbs genomic stability via activation of Akt and down-regulation of Rad51 in human embryonic kidney cells. Molecular Carcinogenesis, 2013, 52, 611-618.	2.7	20
46	Evaluation of wound healing activity of ethanol extract of Annona reticulata L. leaf both in vitro and in diabetic mice model. Journal of Traditional and Complementary Medicine, 2021, 11, 27-37.	2.7	19
47	Cu <sup>II</sup> complex of emodin with improved anticancer activity as demonstrated by its performance on HeLa and Hep G2 cells. RSC Advances, 2017, 7, 41403-41418.	3.6	18
48	Targeted delivery of "copper carbonate" nanoparticles to cancer cells in vivo. Toxicology Research, 2015, 4, 1604-1612.	2.1	17
49	Synthesis, crystal structure from PXRD of a Mn <sup>II</sup> (purp) <sub>2</sub> complex, interaction with DNA at different temperatures and pH and lack of stimulated ROS formation by the complex. RSC Advances, 2016, 6, 51520-51532.	3.6	17
50	Biochemical activity of a fluorescent dye rhodamine 6G: Molecular modeling, electrochemical, spectroscopic and thermodynamic studies. Journal of Photochemistry and Photobiology B: Biology, 2016, 164, 369-379.	3.8	17
51	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. Journal of Nanoscience and Nanotechnology, 2019, 19, 3720-3733.	0.9	17
52	Transient overexpression of Werner protein rescues starvation induced autophagy in Werner syndrome cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 2387-2394.	3.8	15
53	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. RSC Advances, 2015, 5, 73099-73111.	3.6	15
54	Fabrication of SERS active Langmuir-Blodgett Film substrate for screening human cancer cell lines: Experimental observations supported by multivariate data analyses. Sensors and Actuators B: Chemical, 2019, 299, 126962.	7.8	15

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55	Multinucleation regulated by the Akt/PTEN signaling pathway is a survival strategy for HepG2 cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2013, 755, 135-140.	1.7	14
56	Natural product inspired allicin analogs as novel anti-cancer agents. <i>Bioorganic Chemistry</i> , 2019, 86, 259-272.	4.1	14
57	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
58	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
59	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
60	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
61	Non-canonical function of nuclear PTEN and its implication on tumorigenesis. <i>DNA Repair</i> , 2021, 107, 103197.	2.8	12
62	Stem Cell Aging and Regenerative Medicine. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1326, 11-37.	1.6	11
63	Essential oil impregnated luminescent hydroxyapatite: Antibacterial and cytotoxicity studies. <i>Materials Science and Engineering C</i> , 2020, 116, 111190.	7.3	10
64	Caffeine augments Alprazolam induced cytotoxicity in human cell lines. <i>Toxicology in Vitro</i> , 2009, 23, 1100-1109.	2.4	9
65	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
66	Inactivation of PTEN is responsible for the survival of Hep G2 cells in response to etoposide-induced damage. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2011, 715, 42-51.	1.0	8
67	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
68	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
69	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
70	Utilization of Guanidine-Based Ancillary Ligands in Arene-Ruthenium Complexes for Selective Cytotoxicity. <i>ACS Omega</i> , 2021, 6, 8226-8238.	3.5	7
71	Syntheses, characterizations and biophysical studies of Cu(II) diphenylphosphate complexes: Effect of co-ligands on their biological properties. <i>Polyhedron</i> , 2012, 48, 157-166.	2.2	6
72	Recruitment of HRDC domain of WRN and BLM to the sites of DNA damage induced by mitomycin C and methyl methanesulfonate. <i>Cell Biology International</i> , 2012, 36, 873-881.	3.0	6

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73	Syntheses, crystal structures, DNA binding, DNA cleavage and DFT study of Co( $\text{scp}^{\text{iii}}$ ) complexes involving azo-appended Schiff base ligands. <i>New Journal of Chemistry</i> , 2018, 42, 16571-16582.	2.8	6
74	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
75	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
76	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
77	Aza-Crown-Based Macrocyclic Probe Design for $\text{PET-off}$ -Multi-Cu <sup>2+</sup> Responsive and $\text{CHEF-on}$ -Multi-Zn <sup>2+</sup> Sensor: Application in Biological Cell Imaging and Theoretical Studies. <i>Inorganic Chemistry</i> , 2022, 61, 1982-1996.	4.0	5
78	A novel Cu(II)-mal <sup>+</sup> -picoline complex induces mitotic catastrophe mediated by deacetylation of histones and $\pm$ -tubulin leading to apoptosis in human cell lines. <i>MedChemComm</i> , 2012, 3, 1393.	3.4	4
79	$\text{I}^3$ radiation-induced damage of nucleic acid bases, calf thymus DNA and DNA within MCF-7 breast cancer cells by [Cu <sub>2</sub> (OAc) <sub>4</sub> (tnz) <sub>2</sub> ]: a potential radiosensitizer. <i>New Journal of Chemistry</i> , 2017, 41, 11679-11685.	2.8	4
80	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
81	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
82	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
83	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
84	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
85	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
86	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
87	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
88	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
89	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
90	Biocompatible Carbon Dot Decorated $\text{I}^{\pm}$ -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

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91	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
92	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
93	A mechanistic insight into the bioaccessible herbometallic nanodrug as potential dual therapeutic agent. <i>Materials Today Communications</i> , 2020, 24, 101099.	1.9	1
94	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
95	PTEN: Sumoylation Function is the Key to the Maintenance of Genomic Stability of Cell. <i>Nano LIFE</i> , 0, , .	0.9	0
96	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