

# Pritam Kumar Panda

## List of Publications by Year in descending order

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91  
papers

2,561  
citations

172457

29  
h-index

214800

47  
g-index

92  
all docs

92  
docs citations

92  
times ranked

2731  
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress in supercapacitors: roles of two dimensional nanotubular materials. <i>Nanoscale Advances</i> , 2020, 2, 70-108.	4.6	164
2	Structure-based drug designing and immunoinformatics approach for SARS-CoV-2. <i>Science Advances</i> , 2020, 6, eabb8097.	10.3	138
3	Core-shell nanostructures: perspectives towards drug delivery applications. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8992-9027.	5.8	127
4	Mechanistic insight to ROS and Apoptosis regulated cytotoxicity inferred by Green synthesized CuO nanoparticles from <i>Calotropis gigantea</i> to Embryonic Zebrafish. <i>Scientific Reports</i> , 2017, 7, 16284.	3.3	99
5	Bio-acceptable 0D and 1D ZnO nanostructures for cancer diagnostics and treatment. <i>Materials Today</i> , 2021, 50, 533-569.	14.2	95
6	Necklace-like Nitrogen-Doped Tubular Carbon 3D Frameworks for Electrochemical Energy Storage. <i>Advanced Functional Materials</i> , 2020, 30, 1909725.	14.9	89
7	Molecular aspects of core-shell intrinsic defect induced enhanced antibacterial activity of ZnO nanocrystals. <i>Nanomedicine</i> , 2018, 13, 43-68.	3.3	82
8	Clinical evolution, genetic landscape and trajectories of clonal hematopoiesis in SAMD9/SAMD9L syndromes. <i>Nature Medicine</i> , 2021, 27, 1806-1817.	30.7	79
9	Altered physiochemical properties in industrially synthesized ZnO nanoparticles regulate oxidative stress; induce in vivo cytotoxicity in embryonic zebrafish by apoptosis. <i>Scientific Reports</i> , 2017, 7, 13909.	3.3	71
10	One dimensional Au-ZnO hybrid nanostructures based CO <sub>2</sub> detection: Growth mechanism and role of the seed layer on sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2021, 337, 129765.	7.8	68
11	Green synthesized MgO nanoparticles infer biocompatibility by reducing in vivo molecular nanotoxicity in embryonic zebrafish through arginine interaction elicited apoptosis. <i>Science of the Total Environment</i> , 2020, 713, 136521.	8.0	63
12	Mechanistic insight into the rapid one-step facile biofabrication of antibacterial silver nanoparticles from bacterial release and their biogenicity and concentration-dependent in vitro cytotoxicity to colon cells. <i>RSC Advances</i> , 2017, 7, 40034-40045.	3.6	62
13	Facile synthesized novel hybrid graphene oxide/cobalt ferrite magnetic nanoparticles based surface coating material inhibit bacterial secretion pathway for antibacterial effect. <i>Materials Science and Engineering C</i> , 2019, 104, 109932.	7.3	52
14	Rapid Novel Facile Biosynthesized Silver Nanoparticles From Bacterial Release Induce Biogenicity and Concentration Dependent In Vivo Cytotoxicity With Embryonic Zebrafish—A Mechanistic Insight. <i>Toxicological Sciences</i> , 2018, 161, 125-138.	3.1	50
15	Molecular insights to alkaline based bio-fabrication of silver nanoparticles for inverse cytotoxicity and enhanced antibacterial activity. <i>Materials Science and Engineering C</i> , 2018, 92, 807-818.	7.3	50
16	Hydrogen storage characteristics of Li and Na decorated 2D boron phosphide. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4538-4546.	4.9	49
17	Nanocarrier cancer therapeutics with functional stimuli-responsive mechanisms. <i>Journal of Nanobiotechnology</i> , 2022, 20, 152.	9.1	49
18	A unique view of SARS-CoV-2 through the lens of ORF8 protein. <i>Computers in Biology and Medicine</i> , 2021, 133, 104380.	7.0	48

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19	Mechanistic insight into ROS and neutral lipid alteration induced toxicity in the human model with fins ( <i>Danio rerio</i> ) by industrially synthesized titanium dioxide nanoparticles. <i>Toxicology Research</i> , 2018, 7, 244-257.	2.1	47
20	Mechanistic Insight into Size-Dependent Enhanced Cytotoxicity of Industrial Antibacterial Titanium Oxide Nanoparticles on Colon Cells Because of Reactive Oxygen Species Quenching and Neutral Lipid Alteration. <i>ACS Omega</i> , 2018, 3, 1244-1262.	3.5	46
21	Genetics of PCOS: A systematic bioinformatics approach to unveil the proteins responsible for PCOS. <i>Genomics Data</i> , 2016, 8, 52-60.	1.3	41
22	Molecular intrinsic proximal interaction infer oxidative stress and apoptosis modulated in vivo biocompatibility of <i>P. nigrum</i> derived antibacterial iron oxide nanoparticles with zebrafish. <i>Environmental Pollution</i> , 2020, 267, 115482.	7.5	41
23	Autoimmunity roots of the thrombotic events after COVID-19 vaccination. <i>Autoimmunity Reviews</i> , 2021, 20, 102941.	5.8	39
24	Molecular insight to <i>in vitro</i> biocompatibility of phytofabricated copper oxide nanoparticles with human embryonic kidney cells. <i>Nanomedicine</i> , 2018, 13, 2415-2433.	3.3	38
25	Altered electrical properties with controlled copper doping in ZnO nanoparticles infers their cytotoxicity in macrophages by ROS induction and apoptosis. <i>Chemico-Biological Interactions</i> , 2019, 297, 141-154.	4.0	38
26	Determining factors for the nano-biocompatibility of cobalt oxide nanoparticles: proximal discrepancy in intrinsic atomic interactions at differential vicinage. <i>Green Chemistry</i> , 2021, 23, 3439-3458.	9.0	38
27	Impact of edge structures on interfacial interactions and efficient visible-light photocatalytic activity of metal-semiconductor hybrid 2D materials. <i>Catalysis Science and Technology</i> , 2020, 10, 3279-3289.	4.1	37
28	Molecular investigation to RNA and protein based interaction induced <i>in vivo</i> biocompatibility of phytofabricated AuNP with embryonic zebrafish. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 671-684.	2.8	34
29	Molecular insight to influential role of Hha-TomB toxin-antitoxin system for antibacterial activity of biogenic silver nanoparticles. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 572-584.	2.8	30
30	Aurora Borealis in dentistry: The applications of cold plasma in biomedicine. <i>Materials Today Bio</i> , 2022, 13, 100200.	5.5	29
31	Two-Dimensional Bismuthene Nanosheets for Selective Detection of Toxic Gases. <i>ACS Applied Nano Materials</i> , 2022, 5, 2984-2993.	5.0	29
32	COVID-19 Vaccines and Thrombosis—Roadblock or Dead-End Street?. <i>Biomolecules</i> , 2021, 11, 1020.	4.0	28
33	Molecular toxicity of Benzo(a)pyrene mediated by elicited oxidative stress infer skeletal deformities and apoptosis in embryonic zebrafish. <i>Science of the Total Environment</i> , 2021, 789, 147989.	8.0	28
34	Strain-Engineered Metal-Free h-B <sub>2</sub> O Monolayer as a Mechanocatalyst for Photocatalysis and Improved Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7884-7892.	3.1	27
35	Degradation of Alzheimer's Amyloid- $\beta$ by a Catalytically Inactive Insulin-Degrading Enzyme. <i>Journal of Molecular Biology</i> , 2021, 433, 166993.	4.2	27
36	Molecular aspect of silver nanoparticles regulated embryonic development in Zebrafish ( <i>Danio rerio</i> ) by Oct-4 expression. <i>Chemosphere</i> , 2018, 206, 560-567.	8.2	26

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37	In Vivo Molecular Toxicity Profile of Dental Bioceramics in Embryonic Zebrafish ( <i>Danio rerio</i> ). <i>Chemical Research in Toxicology</i> , 2018, 31, 914-923.	3.3	24
38	Rational Design of 2D h-BAs Monolayer as Advanced Sulfur Host for High Energy Density Li-S Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 7306-7317.	5.1	23
39	Zebrafish ( <i>Danio rerio</i> ) as an ecotoxicological model for Nanomaterial induced toxicity profiling. <i>Precision Nanomedicine</i> , 2021, 4, .	0.8	23
40	Carbon-phosphide monolayer with high carrier mobility and perceptible response for superior gas sensing. <i>New Journal of Chemistry</i> , 2020, 44, 3777-3785.	2.8	23
41	Molecular nanoinformatics approach assessing the biocompatibility of biogenic silver nanoparticles with channelized intrinsic steatosis and apoptosis. <i>Green Chemistry</i> , 2022, 24, 1190-1210.	9.0	23
42	Phage delivered CRISPR-Cas system to combat multidrug-resistant pathogens in gut microbiome. <i>Biomedicine and Pharmacotherapy</i> , 2022, 151, 113122.	5.6	23
43	Biological Effects of Green-Synthesized Metal Nanoparticles: A Mechanistic View of Antibacterial Activity and Cytotoxicity. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 145-171.	0.5	20
44	Selective in vivo molecular and cellular biocompatibility of black peppercorns by piperine-protein intrinsic atomic interaction with elicited oxidative stress and apoptosis in zebrafish eleuthero embryos. <i>Ecotoxicology and Environmental Safety</i> , 2020, 192, 110321.	6.0	20
45	Cellular Investigations on Mechanistic Biocompatibility of Green Synthesized Calcium Oxide Nanoparticles with <i>Danio rerio</i> . <i>Journal of Nanotheranostics</i> , 2021, 2, 51-62.	3.1	19
46	Integrated bioinformatics-cheminformatics approach toward locating pseudo-potential antiviral marine alkaloids against SARS-CoV-2. <i>Proteins: Structure, Function and Bioinformatics</i> , 2022, 90, 1617-1633.	2.6	18
47	Molecular insight to size and dose-dependent cellular toxicity exhibited by a green synthesized bioceramic nanohybrid with macrophages for dental applications. <i>Toxicology Research</i> , 2018, 7, 959-969.	2.1	15
48	Molecular aspect of phytofabrication of gold nanoparticle from <i>Andrographis peniculata</i> photosystem II and their in vivo biological effect on embryonic zebrafish ( <i>Danio rerio</i> ). <i>Environmental Nanotechnology, Monitoring and Management</i> , 2019, 11, 100201.	2.9	15
49	Dynamical modeling of miR-34a, miR-449a, and miR-16 reveals numerous DDR signaling pathways regulating senescence, autophagy, and apoptosis in HeLa cells. <i>Scientific Reports</i> , 2022, 12, 4911.	3.3	15
50	The viral capsid as novel nanomaterials for drug delivery. <i>Future Science OA</i> , 2021, 7, FSO744.	1.9	14
51	Mutation-based structural modification and dynamics study of amyloid beta peptide (1-42): An in-silico-based analysis to cognize the mechanism of aggregation. <i>Genomics Data</i> , 2016, 7, 189-194.	1.3	13
52	Nanoparticle-biological interactions: the renaissance of bionomics in the myriad nanomedical technologies. <i>Nanomedicine</i> , 2021, 16, 2249-2254.	3.3	13
53	In vivo intrinsic atomic interaction infer molecular eco-toxicity of industrial TiO <sub>2</sub> nanoparticles via oxidative stress channelized steatosis and apoptosis in <i>Paramecium caudatum</i> . <i>Ecotoxicology and Environmental Safety</i> , 2022, 241, 113708.	6.0	13
54	Identification of a new alanine racemase in <i>Salmonella Enteritidis</i> and its contribution to pathogenesis. <i>Gut Pathogens</i> , 2018, 10, 30.	3.4	12

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55	Intrinsic molecular insights to enhancement of biogas production from kitchen refuse using alkaline-microwave pretreatment. <i>Scientific Reports</i> , 2019, 9, 5968.	3.3	11
56	2D g-C <sub>3</sub> N <sub>4</sub> monolayer for amino acids sequencing. <i>Applied Surface Science</i> , 2020, 528, 146609.	6.1	11
57	Theragnostic application of nanoparticle and CRISPR against food-borne multi-drug resistant pathogens. <i>Materials Today Bio</i> , 2022, 15, 100291.	5.5	11
58	Molecules versus Nanoparticles: Identifying a Reactive Molecular Intermediate in the Synthesis of Ternary Coinage Metal Chalcogenides. <i>Inorganic Chemistry</i> , 2020, 59, 7727-7738.	4.0	10
59	The Hha <sup>II</sup> -TomB toxin <sup>II</sup> antitoxin module in <i>Salmonella enterica</i> serovar Typhimurium limits its intracellular survival profile and regulates host immune response. <i>Cell Biology and Toxicology</i> , 2022, 38, 111-127.	5.3	10
60	Azacitidine is effective for targeting leukemia-initiating cells in juvenile myelomonocytic leukemia. <i>Leukemia</i> , 2019, 33, 1805-1810.	7.2	9
61	Intrinsic atomic interaction at molecular proximal vicinity infer cellular biocompatibility of antibacterial nanopepper. <i>Nanomedicine</i> , 2021, 16, 307-322.	3.3	9
62	Investigation of the Factors That Dictate the Preferred Orientation of Lexitropsins in the Minor Groove of DNA. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 10423-10440.	6.4	7
63	The mechanism behind flaring/triggering of autoimmunity disorders associated with COVID-19. <i>Autoimmunity Reviews</i> , 2021, 20, 102909.	5.8	7
64	<i>Plasmodium falciparum</i> HSP40 protein eCijp traffics to the erythrocyte cytoskeleton and interacts with the human HSP70 chaperone HSPA1. <i>FEBS Letters</i> , 2022, 596, 95-111.	2.8	7
65	Overview of key molecular and pharmacological targets for diabetes and associated diseases. <i>Life Sciences</i> , 2021, 278, 119632.	4.3	6
66	Targeting LIN28: a new hope in prostate cancer theranostics. <i>Future Oncology</i> , 2021, 17, 3873-3880.	2.4	6
67	SAMD9 and SAMD9L Germline Disorders in Patients Enrolled in Studies of the European Working Group of MDS in Childhood (EWOG-MDS): Prevalence, Outcome, Phenotype and Functional Characterisation. <i>Blood</i> , 2018, 132, 643-643.	1.4	6
68	Antibodies Against Phosphorylcholine Among 60-Year-Olds: Clinical Role and Simulated Interactions. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 809007.	2.4	6
69	Structural discordance in HIV-1 Vpu from brain isolate alarms amyloid fibril forming behavior- a computational perspective. <i>Journal of Theoretical Biology</i> , 2018, 451, 35-45.	1.7	5
70	Binding Patterns Associated A $\beta$ -HSP60 p458 Conjugate to HLA-DR-DRB Allele of Human in Alzheimer's Disease: An In Silico Approach. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2018, 10, 93-104.	3.6	5
71	Van der Waals induced molecular recognition of canonical DNA nucleobases on a 2D GaS monolayer. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6706-6715.	2.8	5
72	Effects of Atorvastatin on T <sub>H</sub> 1 Cell Activation and Apoptosis in Systemic Lupus Erythematosus and Novel Simulated Interactions With $\alpha$ -Reactive Protein and Interleukin 6. <i>ACR Open Rheumatology</i> , 2021, 3, 642-653.	2.1	5

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73	Hydroxylated $\hat{\Gamma}^2$ - and $\hat{\Gamma}^1$ -Hexachlorocyclohexane metabolites infer influential intrinsic atomic pathways interaction to elicit oxidative stress-induced apoptosis for bio-toxicity. Environmental Research, 2022, 212, 113496.	7.5	5
74	Green Synthesized Metal Oxide Nanomaterials Photocatalysis in Combating Bacterial Infection. Environmental Chemistry for A Sustainable World, 2020, , 73-86.	0.5	4
75	Electronic and optical properties of a structural defect in 2D MgF <sub>2</sub> monolayer. AIP Conference Proceedings, 2020, , .	0.4	4
76	Contact electrification through interfacial charge transfer: a mechanistic viewpoint on solid-liquid interfaces. Nanoscale Advances, 2022, 4, 884-893.	4.6	4
77	Crystallinity modulation originates ferroelectricity like nature in piezoelectric selenium. Nano Energy, 2022, 95, 107008.	16.0	4
78	Investigation of Nd <sup>3+</sup> incorporation in Ce-rhabdophane: Insight from structural flexibility and occupation mechanism. Journal of the American Ceramic Society, 0, , .	3.8	4
79	Ebola virus: bioterrorism for humans. Asian Pacific Journal of Tropical Disease, 2015, 5, S1-S6.	0.5	2
80	Magnetic nanoparticles: fabrication, characterization, properties, and application for environment sustainability. , 2021, , 33-64.		2
81	Organic Batteries: the Route Toward Sustainable Electrical Energy Storage Technologies. , 2021, , 1-22.		2
82	Monosomy 7 As the Initial Hit Followed By Sequential Acquisition of SETBP1 and ASXL1 Driver Mutations in Childhood Myelodysplastic Syndromes. Blood, 2018, 132, 105-105.	1.4	2
83	Gene Therapy for Neuropsychiatric Disorders: Potential Targets and Tools. CNS and Neurological Disorders - Drug Targets, 2022, 21, .	1.4	2
84	Analysis of molecular ligand functionalization process in nano-molecular electronic devices containing densely packed nano-particle functionalization shells. Nanotechnology, 2022, 33, 255706.	2.6	2
85	Mutation Based Structural Modelling and Dynamics Study of Alpha Fetoprotein: An Insight to Inhibitory Mechanism in Breast Cancer. Journal of Proteomics and Bioinformatics, 2018, 11, .	0.4	1
86	Landscape of ROD9 Island: Functional annotations and biological network of hypothetical proteins in Salmonella enterica. Computational Biology and Chemistry, 2019, 83, 107110.	2.3	1
87	Introduction: Background of Computational and Experimental Investigations for Next-Generation Efficient Battery Materials. , 2021, , 1-34.		0
88	Data-Driven Machine Learning Approaches for Advanced Battery Modeling. , 2021, , 1-18.		0
89	Future Outlook and Direction of Next-Generation Battery Materials. , 2021, , 1-22.		0
90	Computational and Experimental Techniques to Envisage Battery Materials. , 2021, , 1-22.		0

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91	5-Azacytidine Is Effective for Targeting Leukemia-Initiating Cells in Juvenile Myelomonocytic Leukemia. Blood, 2018, 132, 4342-4342.	1.4	0