

# Krishnan Sundar

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

909  
citations

471371

17  
h-index

501076

28  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1356  
citing authors

#	ARTICLE	IF	CITATIONS
1	Helminth Infection Can Reduce Insulinitis and Type 1 Diabetes through CD25- and IL-10-Independent Mechanisms. <i>Infection and Immunity</i> , 2009, 77, 5347-5358.	1.0	115
2	A novel biocompatible chitosanâ€“Selenium nanoparticles (SeNPs) film with electrical conductivity for cardiac tissue engineering application. <i>Materials Science and Engineering C</i> , 2018, 92, 151-160.	3.8	77
3	In vitro evaluation of anticancer properties of exopolysaccharides from <i>Lactobacillus acidophilus</i> in colon cancer cell lines. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2016, 52, 163-173.	0.7	70
4	A novel one-pot green synthesis of selenium nanoparticles and evaluation of its toxicity in zebrafish embryos. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2016, 44, 471-477.	1.9	65
5	Synthesis of zinc oxide nanoparticles (ZnONPs) by aqueous extract of <i>Amaranthus caudatus</i> and evaluation of their toxicity and antimicrobial activity. <i>Materials Letters</i> , 2017, 209, 295-298.	1.3	39
6	Optimization of anticancer exopolysaccharide production from probiotic <i>Lactobacillus acidophilus</i> by response surface methodology. <i>Preparative Biochemistry and Biotechnology</i> , 2016, 46, 288-297.	1.0	38
7	Pharmacoinformatics-based investigation of bioactive compounds of Rasam (South Indian recipe) against human cancer. <i>Scientific Reports</i> , 2021, 11, 21488.	1.6	38
8	Computational prediction and identification of HLA-A2.1-specific Ebola virus CTL epitopes. <i>Virology</i> , 2007, 360, 257-263.	1.1	36
9	An ingenious non-spherical mesoporous silica nanoparticle cargo with curcumin induces mitochondria-mediated apoptosis in breast cancer (MCF-7) cells. <i>Oncotarget</i> , 2019, 10, 1193-1208.	0.8	31
10	Reducing agents influence the shapes of selenium nanoparticles (SeNPs) and subsequently their antibacterial and antioxidant activity. <i>Materials Research Express</i> , 2019, 6, 0850i2.	0.8	30
11	Lassa Fever Virus Peptides Predicted by Computational Analysis Induce Epitope-Specific Cytotoxic-T-Lymphocyte Responses in HLA-A2.1 Transgenic Mice. <i>Vaccine Journal</i> , 2005, 12, 1223-1230.	3.2	28
12	Optimization and purification of anticancer enzyme L-glutaminase from <i>Alcaligenes faecalis</i> KLU102. <i>Biologia (Poland)</i> , 2014, 69, 1644-1651.	0.8	26
13	Sodium selenite/selenium nanoparticles (SeNPs) protect cardiomyoblasts and zebrafish embryos against ethanol induced oxidative stress. <i>Journal of Trace Elements in Medicine and Biology</i> , 2015, 32, 135-144.	1.5	26
14	Insights on the involvement of (â€“)epigallocatechin gallate in ER stress-mediated apoptosis in age-related macular degeneration. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2017, 22, 72-85.	2.2	24
15	Monodispersed spherical shaped selenium nanoparticles (SeNPs) synthesized by <i>Bacillus subtilis</i> and its toxicity evaluation in zebrafish embryos. <i>Materials Research Express</i> , 2018, 5, 025020.	0.8	24
16	Structural studies of a Phe256Trp mutant of human salivary Î±-amylase: implications for the role of a conserved water molecule in enzyme activity. <i>Archives of Biochemistry and Biophysics</i> , 2004, 421, 115-124.	1.4	21
17	Hollow selenium nanoparticles from potato extract and investigation of its biological properties and developmental toxicity in zebrafish embryos. <i>IET Nanobiotechnology</i> , 2019, 13, 275-281.	1.9	19
18	Targeting complement cascade: an alternative strategy for COVID-19. <i>3 Biotech</i> , 2020, 10, 479.	1.1	15

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19	Aphrodisiac Performance of Bioactive Compounds from <i>Mimosa pudica</i> Linn.: In Silico Molecular Docking and Dynamics Simulation Approach. <i>Molecules</i> , 2022, 27, 3799.	1.7	15
20	Response surface methodology mediated optimization of decolorization of azo dye amido black 10B by <i>Kocuria kristinae</i> RC3. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 4203-4214.	1.8	14
21	Role of ZnS Nanoparticles on Endoplasmic Reticulum Stress-mediated Apoptosis in Retinal Pigment Epithelial Cells. <i>Biological Trace Element Research</i> , 2016, 170, 390-400.	1.9	13
22	Combinatorial Delivery of Gallium (III) Nitrate and Curcumin Complex-Loaded Hollow Mesoporous Silica Nanoparticles for Breast Cancer Treatment. <i>Nanomaterials</i> , 2022, 12, 1472.	1.9	13
23	Cytotoxic effect of ZnS nanoparticles on primary mouse retinal pigment epithelial cells. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2016, 44, 1764-1773.	1.9	11
24	Exopolysaccharides from <i>Lactobacillus acidophilus</i> modulates the antioxidant status of 1,2- $\alpha$ -dimethyl hydrazine-induced colon cancer rat model. <i>3 Biotech</i> , 2021, 11, 225.	1.1	11
25	Expression, Characterization, and Biochemical Properties of Recombinant Human Salivary Amylase. <i>Protein Expression and Purification</i> , 2002, 24, 202-211.	0.6	10
26	PEG- $\alpha$ -PHB-glutaminase nanoparticle inhibits cancer cell proliferation in vitro through glutamine deprivation. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2015, 51, 372-380.	0.7	10
27	Polyethylenimine-modified curcumin-loaded mesoporous silica nanoparticle (MCM-41) induces cell death in MCF-7 cell line. <i>IET Nanobiotechnology</i> , 2017, 11, 57-61.	1.9	10
28	Comparative analysis of cardiovascular effects of selenium nanoparticles and sodium selenite in zebrafish embryos. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2016, 44, 1-7.	1.9	9
29	Identification of SARS-CoV-2 CTL epitopes for development of a multivalent subunit vaccine for COVID-19. <i>Infection, Genetics and Evolution</i> , 2021, 89, 104712.	1.0	9
30	Development of METAL-ACTIVE SITE and ZINCCLUSTER tool to predict active site pockets. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018, 86, 322-331.	1.5	8
31	Self-assembled hollow ZnO nano and micro donut shape by starch and its antimicrobial potentials. <i>Materials Letters</i> , 2020, 275, 128128.	1.3	8
32	Identification of Putative Therapeutic Targets in <i>Candida tropicalis</i> : An in silico Approach. <i>Trends in Bioinformatics</i> , 2015, 8, 52-62.	0.3	7
33	PEGylated silver nanoparticles from <i>Sesbania aegyptiaca</i> exhibit immunomodulatory and anti-cancer activity. <i>Materials Research Express</i> , 2019, 6, 035402.	0.8	5
34	Synergistic effects of herbal zinc oxide nanoparticles (ZnONPs) and its anti-hyperglycemic and anti-bacterial effects. <i>Materials Today: Proceedings</i> , 2021, 36, 390-396.	0.9	5
35	Synthesis of Polyelectrolyte Nanoparticles from Anticancer Exopolysaccharide Isolated from Probiotic <i>Lactobacillus acidophilus</i> . <i>Research Journal of Microbiology</i> , 2015, 10, 193-204.	0.2	4
36	Delivery of Ursolic Acid by Polyhydroxybutyrate Nanoparticles for Cancer Therapy: in silico and in vitro Studies. <i>Drug Research</i> , 2022, 72, 72-81.	0.7	4

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37	HLA-directed bioinformatics approach for genome-wide mapping of dengue CTL epitopes. <i>Future Virology</i> , 2018, 13, 331-342.	0.9	3
38	Decolorization of Azo Dyes using Dried Biomass of <i>Bacillus cereus</i> RC1 and <i>Kocuria kristinae</i> RC3. <i>Journal of Pure and Applied Microbiology</i> , 2019, 13, 1969-1976.	0.3	3
39	Optimization of Growth Medium and Biosorption of Chromium Using Micro Algae and Cyanobacteria. <i>Environmental Science and Engineering</i> , 2017, , 347-358.	0.1	2
40	Generation of 2D-QSAR Model for Angiogenin Inhibitors: A Ligand-Based Approach for Cancer Drug Design. <i>Trends in Bioinformatics</i> , 2016, 9, 1-13.	0.3	2
41	Response surface methodology mediated optimization of textile azo dye, Eriochrome Black T decolorization by <i>Bacillus cereus</i> RC1. , 0, 81, 242-251.		2
42	Mapping of accumulation of SeNPs in developing zebrafish embryos and larvae: a new method using SEM with energy dispersive X-ray spectrometer. <i>Micro and Nano Letters</i> , 2017, 12, 497-499.	0.6	2
43	l-Ornithine-N5-monooxygenase (PvdA) Substrate Analogue Inhibitors for <i>Pseudomonas aeruginosa</i> Infections Treatment: Drug Repurposing Computational Studies. <i>Biomolecules</i> , 2022, 12, 887.	1.8	2
44	Homology modeling of target proteins and identification novel antifungal compounds against <i>Candida tropicalis</i> through structure based virtual screening. , 2015, 2015, 4419-22.		1
45	Suitability of ANN and GP for Predicting Soak Pit Tank Efficiency under Limited Data Conditions. <i>MATEC Web of Conferences</i> , 2018, 203, 03001.	0.1	1
46	Mining the Proteome of <i>Streptococcus mutans</i> for Putative Drug Targets. <i>Infectious Disorders - Drug Targets</i> , 2021, 21, 429-438.	0.4	1
47	Emerging nanomaterials for cancer immunotherapy. <i>Exploration of Medicine</i> , 2021, 2, 208-231.	1.5	1
48	Promotion of Wound Healing by Leaf Extracts of <i>Sesbania aegyptiaca</i> in Albino Rats. <i>Research Journal of Medicinal Plant</i> , 2015, 9, 116-126.	0.3	1
49	Pathogenesis of Type 1 Diabetes: Regulation of Adhesion Molecules and Immune Cell Trafficking. <i>Current Immunology Reviews</i> , 2007, 3, 87-100.	1.2	0
50	GENOME-WIDE PREDICTION OF HUMAN PAPILLOMA VIRUS SPECIFIC T-CELL EPITOPES USING A COMBINATION OF MATRIX BASED COMPUTATIONAL TOOLS. <i>International Journal of Pharmacy and Pharmaceutical Sciences</i> , 2017, 9, 175.	0.3	0
51	The Role of Calcium-activated Potassium Channel in Mitochondria-Associated ER Membrane and Its Functional Link to Cell Survival and Death. , 2018, , .		0
52	Computational Mapping of Cytotoxic T Lymphocyte epitopes of <i>Mycobacterium Tuberculosis</i> and their Potential Role in Vaccine Design. <i>Turkish Journal of Immunology</i> , 2021, , .	0.1	0
53	Mesoporous Silica Nanoparticles Are Nanocarrier for Drug Loading and Induces Cell Death in Breast Cancer. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 225-245.	0.3	0
54	Computational Prediction of B cell epitopes of <i>Mycobacterium tuberculosis</i> – implications in vaccine design. <i>Mediterranean Journal of Infection, Microbes and Antimicrobials</i> , 0, , .	0.2	0