

# rer nat Kunal Bhattacharya

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

2,176  
citations

236925

25  
h-index

233421

45  
g-index

50  
all docs

50  
docs citations

50  
times ranked

4013  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological interactions of carbon-based nanomaterials: From coronation to degradation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 333-351.	3.3	322
2	Titanium dioxide nanoparticles induce oxidative stress and DNA-adduct formation but not DNA-breakage in human lung cells. <i>Particle and Fibre Toxicology</i> , 2009, 6, 17.	6.2	274
3	Graphene oxide is degraded by neutrophils and the degradation products are non-genotoxic. <i>Nanoscale</i> , 2018, 10, 1180-1188.	5.6	148
4	Mechanisms of carbon nanotube-induced toxicity: Focus on pulmonary inflammation. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 2087-2097.	13.7	126
5	Toxicological effects of ingested nanocellulose in <i>in vitro</i> intestinal epithelium and <i>in vivo</i> rat models. <i>Environmental Science: Nano</i> , 2019, 6, 2105-2115.	4.3	93
6	Intracellular localisation, geno- and cytotoxic response of polyN-isopropylacrylamide (PNIPAM) nanoparticles to human keratinocyte (HaCaT) and colon cells (SW 480). <i>Toxicology Letters</i> , 2010, 198, 134-143.	0.8	80
7	Nanoparticles Induce Changes of the Electrical Activity of Neuronal Networks on Microelectrode Array Neurochips. <i>Environmental Health Perspectives</i> , 2010, 118, 1363-1369.	6.0	77
8	Development of a standardized food model for studying the impact of food matrix effects on the gastrointestinal fate and toxicity of ingested nanomaterials. <i>NanoImpact</i> , 2019, 13, 13-25.	4.5	77
9	Keeping it real: The importance of material characterization in nanotoxicology. <i>Biochemical and Biophysical Research Communications</i> , 2015, 468, 498-503.	2.1	65
10	Cytotoxicity screening and cytokine profiling of nineteen nanomaterials enables hazard ranking and grouping based on inflammogenic potential. <i>Nanotoxicology</i> , 2017, 11, 809-826.	3.0	62
11	Extracellular entrapment and degradation of single-walled carbon nanotubes. <i>Nanoscale</i> , 2014, 6, 6974.	5.6	60
12	Imaging live cells grown on a three dimensional collagen matrix using Raman microspectroscopy. <i>Analyst</i> , 2010, 135, 3169.	3.5	58
13	Enzymatic stripping and degradation of PEGylated carbon nanotubes. <i>Nanoscale</i> , 2014, 6, 14686-14690.	5.6	54
14	Skeletal Mineralization Deficits and Impaired Biogenesis and Function of Chondrocyte-Derived Matrix Vesicles in <i>Phospho1</i> and <i>Phospho1/Pit1</i> Double-Knockout Mice. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 1275-1286.	2.8	53
15	Nanodrugs to target articular cartilage: An emerging platform for osteoarthritis therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 255-268.	3.3	50
16	Lactoperoxidase-mediated degradation of single-walled carbon nanotubes in the presence of pulmonary surfactant. <i>Carbon</i> , 2015, 91, 506-517.	10.3	49
17	Comparison of Micro- and Nanoscale Fe <sup>3+</sup> -Containing (Hematite) Particles for Their Toxicological Properties in Human Lung Cells <i>In Vitro</i> . <i>Toxicological Sciences</i> , 2012, 126, 173-182.	3.1	47
18	Dual effects of $\beta$ -cyclodextrin-stabilised silver nanoparticles: enhanced biofilm inhibition and reduced cytotoxicity. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 5367.	3.6	43

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19	Single-Walled Carbon Nanotubes Inhibit the Cytochrome P450 Enzyme, CYP3A4. <i>Scientific Reports</i> , 2016, 6, 21316.	3.3	43
20	Reactive oxygen species mediated DNA damage in human lung alveolar epithelial (A549) cells from exposure to non-cytotoxic MFI-type zeolite nanoparticles. <i>Toxicology Letters</i> , 2012, 215, 151-160.	0.8	41
21	ROS-mediated genotoxicity of asbestos-cement in mammalian lung cells in vitro. <i>Particle and Fibre Toxicology</i> , 2005, 2, 9.	6.2	30
22	Biomarkers in risk assessment of asbestos exposure. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2005, 579, 6-21.	1.0	29
23	Vanadium Pentoxide-Coated Ultrafine Titanium Dioxide Particles Induce Cellular Damage and Micronucleus Formation in V79 Cells. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2008, 71, 976-980.	2.3	26
24	Three dimensional collagen gels as a cell culture matrix for the study of live cells by Raman spectroscopy. <i>Analyst</i> , The, 2010, 135, 1697.	3.5	26
25	Herbo-mineral formulation "Ashwashila"™ attenuates rheumatoid arthritis symptoms in collagen-antibody-induced arthritis (CAIA) mice model. <i>Scientific Reports</i> , 2019, 9, 8025.	3.3	25
26	Non-cytotoxic antibacterial silver-coumarin complex doped sol-gel coatings. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 412-419.	5.0	23
27	Anti-Inflammatory and Anti-Arthritic Efficacies of an Indian Traditional Herbo-Mineral Medicine "Divya Amvatar Ras" in Collagen Antibody-Induced Arthritis (CAIA) Mouse Model Through Modulation of IL-6/IL-1 <sup>β</sup> /TNF- <sup>α</sup> /NF- <sup>κ</sup> B Signaling. <i>Frontiers in Pharmacology</i> , 2019, 10, 659.	3.5	21
28	Development & characterization of fluorescently tagged nanocellulose for nanotoxicological studies. <i>Environmental Science: Nano</i> , 2019, 6, 1516-1526.	4.3	21
29	Cytokines Driven Anti-Inflammatory and Anti-Psoriasis Like Efficacies of Nutraceutical Sea Buckthorn ( <i>Hippophae rhamnoides</i> ) Oil. <i>Frontiers in Pharmacology</i> , 2019, 10, 1186.	3.5	19
30	Geoengineering: Perilous Particles. <i>Science</i> , 2013, 340, 548-549.	12.6	16
31	A 21-day sub-acute, whole-body inhalation exposure to printer-emitted engineered nanoparticles in rats: Exploring pulmonary and systemic effects. <i>NanoImpact</i> , 2019, 15, 100176.	4.5	16
32	Nitric Oxide Dependent Degradation of Polyethylene Glycol-Modified Single-Walled Carbon Nanotubes: Implications for Intra-Articular Delivery. <i>Advanced Healthcare Materials</i> , 2018, 7, e1700916.	7.6	14
33	Reduction of chrysotile asbestos-induced genotoxicity in human peripheral blood lymphocytes by garlic extract. <i>Toxicology Letters</i> , 2004, 153, 327-332.	0.8	13
34	Tri-Herbal Medicine Divya Sarva-Kalp-Kwath (Livogrit) Regulates Fatty Acid-Induced Steatosis in Human HepG2 Cells through Inhibition of Intracellular Triglycerides and Extracellular Glycerol Levels. <i>Molecules</i> , 2020, 25, 4849.	3.8	10
35	Oxidative Stress and Changed Gene Expression Profiles in Fiber-/Particle-Induced Carcinogenesis. <i>International Journal of Human Genetics</i> , 2007, 7, 1-21.	0.1	9
36	Polyherbal Medicine Divya Sarva-Kalp-Kwath Ameliorates Persistent Carbon Tetrachloride Induced Biochemical and Pathological Liver Impairments in Wistar Rats and in HepG2 Cells. <i>Frontiers in Pharmacology</i> , 2020, 11, 288.	3.5	9

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37	Application of Zebrafish Model in the Suppression of Drug-Induced Cardiac Hypertrophy by Traditional Indian Medicine Yogendra Ras. <i>Biomolecules</i> , 2020, 10, 600.	4.0	9
38	Shifting identities of metal oxide nanoparticles: Focus on inflammation. <i>MRS Bulletin</i> , 2014, 39, 970-975.	3.5	8
39	Livogrit ameliorates acetaldehyde-induced steatosis in HepG2 cells through modulation of lipogenesis and $\beta$ -oxidation pathways. <i>Phytomedicine Plus</i> , 2021, 1, 100067.	2.0	7
40	Development of Microfluidic, Serum-Free Bronchial Epithelial Cells-on-a-Chip to Facilitate a More Realistic In vitro Testing of Nanoplastics. <i>Frontiers in Toxicology</i> , 2021, 3, 735331.	3.1	7
41	Livogrit Prevents Methionine-Cystine Deficiency Induced Nonalcoholic Steatohepatitis by Modulation of Steatosis and Oxidative Stress in Human Hepatocyte-Derived Spheroid and in Primary Rat Hepatocytes. <i>Bioengineered</i> , 2022, 13, 10811-10826.	3.2	7
42	Collagen matrices as an improved model for in vitro study of live cells using Raman microspectroscopy. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
43	Modulation of psoriatic-like skin inflammation by traditional Indian medicine Divya-Kayakalp-Vati and Oil through attenuation of pro-inflammatory cytokines. <i>Journal of Traditional and Complementary Medicine</i> , 2021, , .	2.7	2
44	Divya-Arjuna-Kwath ( <i>Terminalia arjuna</i> ) and Divya-HridyAmrit-Vati ameliorate isoproterenol-induced hypertrophy in murine cardiomyocytes through modulation of oxidative stress. <i>Phytomedicine Plus</i> , 2021, 1, 100074.	2.0	2
45	Herbo-metallic ethnomedicine â€Malla Sindoorâ€™ ameliorates lung inflammation in murine model of allergic asthma by modulating cytokines status and oxidative stress. <i>Journal of Ethnopharmacology</i> , 2022, 292, 115120.	4.1	2
46	Anti-obesity activity of polyherbal formulation Divya-Medohar-Vati by inhibition of pancreatic lipase activity and triglyceride translocation through enterocytes. <i>Phytomedicine Plus</i> , 2022, 2, 100194.	2.0	1
47	Study of Live Cells Grown on Three Dimensional Collagen Gels Using Raman Microspectroscopy. , 2010, , .		0
48	Role of PHOSPHO1 in chondrocyte matrix vesicle mineralization: an AFM study. <i>Bone Abstracts</i> , 0, , .	0.0	0
49	Comprehensive Phytochemical Profiling of Polyherbal Divya-Kayakalp-Vati and Divya-Kayakalp-Oil and Their Combined Efficacy in Mouse Model of Atopic Dermatitis-Like Inflammation Through Regulation of Cytokines. <i>Clinical, Cosmetic and Investigational Dermatology</i> , 2022, Volume 15, 293-312.	1.8	0