

# Vikas Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

74  
papers

2,146  
citations

218677

26  
h-index

254184

43  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2970  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavy metals (Pb, Cd, As and MeHg) as risk factors for cognitive dysfunction: A general review of metal mixture mechanism in brain. <i>Environmental Toxicology and Pharmacology</i> , 2016, 48, 203-213.	4.0	334
2	A multi-agent architecture for reverse logistics in a green supply chain. <i>International Journal of Production Research</i> , 2012, 50, 2396-2406.	7.5	85
3	Comparing dietary and non-dietary source contribution of BPA and DEHP to prenatal exposure: A Catalonia (Spain) case study. <i>Environmental Research</i> , 2018, 166, 25-34.	7.5	78
4	Spatial and temporal variation of groundwater quality and suitability for irrigation and drinking purpose using GIS and WQI in an urban fringe. <i>Journal of African Earth Sciences</i> , 2016, 124, 270-288.	2.0	75
5	The impact of climate change on water provision under a low flow regime: A case study of the ecosystems services in the Francoli river basin. <i>Journal of Hazardous Materials</i> , 2013, 263, 224-232.	12.4	74
6	PBPK modeling for PFOS and PFOA: Validation with human experimental data. <i>Toxicology Letters</i> , 2014, 230, 244-251.	0.8	73
7	Performance optimization of a leagility inspired supply chain model: a CFGTSA algorithm based approach. <i>International Journal of Production Research</i> , 2009, 47, 777-799.	7.5	72
8	The relevance of outsourcing and leagile strategies in performance optimization of an integrated process planning and scheduling model. <i>International Journal of Production Research</i> , 2009, 47, 119-142.	7.5	63
9	Analysis of the uncertainty in the monetary valuation of ecosystem services – A case study at the river basin scale. <i>Science of the Total Environment</i> , 2016, 543, 683-690.	8.0	60
10	The development of a pregnancy PBPK Model for Bisphenol A and its evaluation with the available biomonitoring data. <i>Science of the Total Environment</i> , 2018, 624, 55-68.	8.0	57
11	ROS networks: designs, aging, Parkinson's disease and precision therapies. <i>Npj Systems Biology and Applications</i> , 2020, 6, 34.	3.0	50
12	Definition and GIS-based characterization of an integral risk index applied to a chemical/petrochemical area. <i>Chemosphere</i> , 2006, 64, 1526-1535.	8.2	45
13	Bringing diverse knowledge sources together – A meta-model for supporting integrated catchment management. <i>Journal of Environmental Management</i> , 2012, 96, 116-127.	7.8	43
14	Review on crosstalk and common mechanisms of endocrine disruptors: Scaffolding to improve PBPK/PD model of EDC mixture. <i>Environment International</i> , 2017, 99, 1-14.	10.0	41
15	Prenatal exposure to PFOS and PFOA in a pregnant women cohort of Catalonia, Spain. <i>Environmental Research</i> , 2019, 175, 384-392.	7.5	41
16	An approach to assess the Particulate Matter exposure for the population living around a cement plant: modelling indoor air and particle deposition in the respiratory tract. <i>Environmental Research</i> , 2015, 143, 10-18.	7.5	40
17	Prenatal exposure estimation of BPA and DEHP using integrated external and internal dosimetry: A case study. <i>Environmental Research</i> , 2017, 158, 566-575.	7.5	39
18	Differential protein expression of hippocampal cells associated with heavy metals (Pb, As, and MeHg) neurotoxicity: Deepening into the molecular mechanism of neurodegenerative diseases. <i>Journal of Proteomics</i> , 2018, 187, 106-125.	2.4	38

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19	Adaptation strategies for water supply management in a drought prone Mediterranean river basin: Application of outranking method. <i>Science of the Total Environment</i> , 2016, 540, 344-357.	8.0	37
20	Bisphenol A analogues (BPS and BPF) present a greater obesogenic capacity in 3T3-L1 cell line. <i>Food and Chemical Toxicology</i> , 2020, 140, 111298.	3.6	36
21	Comparative In Vitro Toxicity Evaluation of Heavy Metals (Lead, Cadmium, Arsenic, and Methylmercury) on HT-22 Hippocampal Cell Line. <i>Biological Trace Element Research</i> , 2018, 184, 226-239.	3.5	34
22	Impact of Contaminants on Microbiota: Linking the Gut-Brain Axis with Neurotoxicity. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 1368.	2.6	34
23	An in vitro cytotoxic approach to assess the toxicity of heavy metals and their binary mixtures on hippocampal HT-22 cell line. <i>Toxicology Letters</i> , 2018, 282, 25-36.	0.8	31
24	Finding synergies for 3Rs - Toxicokinetics and read-across: Report from an EPAA partners' Forum. <i>Regulatory Toxicology and Pharmacology</i> , 2018, 99, 5-21.	2.7	31
25	Hepatotoxicity of the pesticides imazalil, thiacloprid and clothianidin - Individual and mixture effects in a 28-day study in female Wistar rats. <i>Food and Chemical Toxicology</i> , 2020, 140, 111306.	3.6	31
26	Development of a human physiologically based pharmacokinetic (PBPK) model for phthalate (DEHP) and its metabolites: A bottom up modeling approach. <i>Toxicology Letters</i> , 2018, 296, 152-162.	0.8	30
27	Partitioning total variance in risk assessment: Application to a municipal solid waste incinerator. <i>Environmental Modelling and Software</i> , 2009, 24, 247-261.	4.5	27
28	A systems toxicology approach to compare the heavy metal mixtures (Pb, As, MeHg) impact in neurodegenerative diseases. <i>Food and Chemical Toxicology</i> , 2020, 139, 111257.	3.6	26
29	Effects on the reproductive system of young male rats of subcutaneous exposure to n-butylparaben. <i>Food and Chemical Toxicology</i> , 2017, 106, 47-57.	3.6	25
30	Performance of <i>Raphidocelis subcapitata</i> exposed to heavy metal mixtures. <i>Science of the Total Environment</i> , 2017, 601-602, 865-873.	8.0	24
31	Challenges in developing an integrated catchment management model. <i>Water and Environment Journal</i> , 2011, 25, 345-354.	2.2	22
32	A PBPK model to estimate PCDD/F levels in adipose tissue: Comparison with experimental values of residents near a hazardous waste incinerator. <i>Environment International</i> , 2014, 73, 150-157.	10.0	22
33	Levels of chemical and microbiological pollutants in the vicinity of a waste incineration plant and human health risks: Temporal trends. <i>Chemosphere</i> , 2011, 84, 1476-1483.	8.2	21
34	A Multi-Agent Self Correcting Architecture for Distributed Manufacturing Supply Chain. <i>IEEE Systems Journal</i> , 2011, 5, 6-15.	4.6	20
35	Influence of the uncertainty in the validation of PBPK models: A case-study for PFOS and PFOA. <i>Regulatory Toxicology and Pharmacology</i> , 2016, 77, 230-239.	2.7	20
36	Exploring the utility of Bayesian Networks for modelling cultural ecosystem services: A canoeing case study. <i>Science of the Total Environment</i> , 2016, 540, 71-78.	8.0	19

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37	Applicability of a Neuroprobabilistic Integral Risk Index for the Environmental Management of Polluted Areas: A Case Study. <i>Risk Analysis</i> , 2008, 28, 271-286.	2.7	18
38	Integrated modelling for Sustainability Appraisal of Urban river corridors: Going beyond compartmentalised thinking. <i>Water Research</i> , 2013, 47, 7221-7234.	11.3	18
39	Comparison of aggregated exposure to di(2-ethylhexyl) phthalate from diet and personal care products with urinary concentrations of metabolites using a PBPK model – Results from the Norwegian biomonitoring study in EuroMix. <i>Food and Chemical Toxicology</i> , 2020, 143, 111510.	3.6	18
40	Developing integrated PBPK/PD coupled mechanistic pathway model (miRNA-BDNF): An approach towards system toxicology. <i>Toxicology Letters</i> , 2017, 280, 79-91.	0.8	17
41	A concurrent neuro-fuzzy inference system for screening the ecological risk in rivers. <i>Environmental Science and Pollution Research</i> , 2012, 19, 983-999.	5.3	16
42	Physiologically based pharmacokinetic modeling of perfluoroalkyl substances in the human body. <i>Toxicological and Environmental Chemistry</i> , 2015, 97, 814-827.	1.2	16
43	Managing reverse exchanges in service supply chains. <i>Supply Chain Management</i> , 2016, 21, 157-165.	6.4	15
44	Physiology-based toxicokinetic modelling in the frame of the European Human Biomonitoring Initiative. <i>Environmental Research</i> , 2019, 172, 216-230.	7.5	15
45	Performance of <i>Chlorella Vulgaris</i> Exposed to Heavy Metal Mixtures: Linking Measured Endpoints and Mechanisms. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 1037.	2.6	15
46	Human biomonitoring of bisphenol A along pregnancy: An exposure reconstruction of the EXHES-Spain cohort. <i>Environmental Research</i> , 2021, 196, 110941.	7.5	14
47	Fuzzy uncertainty analysis in system modelling. <i>Computer Aided Chemical Engineering</i> , 2005, 20, 391-396.	0.5	13
48	Development and evaluation of a harmonized whole body physiologically based pharmacokinetic (PBPK) model for flutamide in rats and its extrapolation to humans. <i>Environmental Research</i> , 2020, 182, 108948.	7.5	12
49	A generic PBTK model implemented in the MCRA platform: Predictive performance and uses in risk assessment of chemicals. <i>Food and Chemical Toxicology</i> , 2020, 142, 111440.	3.6	12
50	An integrative translational framework for chemical induced neurotoxicity – a systematic review. <i>Critical Reviews in Toxicology</i> , 2020, 50, 424-438.	3.9	12
51	Risk Assessment of Perfluorooctane Sulfonate (PFOS) using Dynamic Age Dependent Physiologically based Pharmacokinetic Model (PBPK) across Human Lifetime. <i>Environmental Research</i> , 2021, 199, 111287.	7.5	12
52	EDC-induced mechanisms of immunotoxicity: a systematic review. <i>Critical Reviews in Toxicology</i> , 2021, 51, 634-652.	3.9	11
53	The quantity-quality trade-off: differential effects of daily food times on reproductive performance and offspring quality in diurnal zebra finches. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	10
54	Test and Risk Assessment Strategies for combined exposure to multiple chemicals. <i>Food and Chemical Toxicology</i> , 2020, 144, 111607.	3.6	10

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55	Health Risk Map of a Petrochemical Complex through GIS-Fuzzy Integration of Air Pollution Monitoring Data. Human and Ecological Risk Assessment (HERA), 2011, 17, 873-891.	3.4	9
56	Maternal exposure to mixtures of dienestrol, linuron and flutamide. Part I: Feminization effects on male rat offspring. Food and Chemical Toxicology, 2020, 139, 111256.	3.6	8
57	Dynamic interactions between hydrogeological and exposure parameters in daily dose prediction under uncertainty and temporal variability. Journal of Hazardous Materials, 2013, 263, 197-206.	12.4	7
58	Bayesian Network Application to Land Suitability Classification in the Sewage Sludge Amendment of Agricultural Soils. Human and Ecological Risk Assessment (HERA), 2014, 20, 1077-1098.	3.4	7
59	A decision support system to find the best water allocation strategies in a Mediterranean river basin in future scenarios of global change. Journal of Experimental and Theoretical Artificial Intelligence, 2016, 28, 331-350.	2.8	7
60	Reconstruction of phthalate exposure and DINCH metabolites from biomonitoring data from the EXHES cohort of Tarragona, Spain: A case study on estimated vs reconstructed DEHP using the PBPK model. Environmental Research, 2020, 186, 109534.	7.5	7
61	Hydrogeochemical characteristics of surface and groundwater: suitability for human consumption and irrigated agriculture purposes in Suruliyar sub basin, South India. Environmental Geochemistry and Health, 2022, 44, 1713-1737.	3.4	7
62	Special Issue "Applications of reference models for supply-chain integration. Production Planning and Control, 2014, 25, 1059-1064.	8.8	6
63	Characterization of river biofilm responses to the exposure with heavy metals using a novel micro fluorometer biosensor. Aquatic Toxicology, 2021, 231, 105732.	4.0	6
64	A Multi-agent Framework for Agile Outsourced Supply Chains. , 2010, , 207-226.		6
65	Integrated fuzzy framework to incorporate uncertainty in risk management. International Journal of Environment and Pollution, 2010, 42, 270.	0.2	4
66	Investigation for the Interaction of Tyramine-Based Anthraquinone Analogue with Human Serum Albumin by Optical Spectroscopic Technique. Chemical Biology and Drug Design, 2013, 81, 343-348.	3.2	4
67	ANN-Based Integrated Risk Ranking Approach: A Case Study of Contaminants of Emerging Concern of Fish and Seafood in Europe. International Journal of Environmental Research and Public Health, 2021, 18, 1598.	2.6	4
68	A Multi-Agent Architecture Framework to Improve Wine Supply Chain Coordination. Lecture Notes in Mechanical Engineering, 2013, , 1077-1088.	0.4	4
69	Maternal exposure to mixtures of dienestrol, linuron and flutamide. Part II: Endocrine-related gene expression assessment on male offspring rat testes. Food and Chemical Toxicology, 2020, 144, 111603.	3.6	3
70	Does it help? Testing the usefulness of a tool to aid Integrated Catchment Management. Procedia Environmental Sciences, 2012, 13, 797-806.	1.4	2
71	Bis(Methylpyridine)EDTA Derivative as a Potential Ligand for PET Imaging: Synthesis, Complexation, and Biological Evaluation. Chemical Biology and Drug Design, 2014, 84, 704-711.	3.2	1
72	Integrated Translation Framework for Endocrine Disruptors in the area of Computational Toxicology. Issues in Toxicology, 2020, , 80-120.	0.1	1

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73	Framework for risk assessment of PFAS utilizing experimental studies and in-silico models. Environmental Research, 2022, 208, 112722.	7.5	1
74	EXHES study reveals the impact of prenatal exposure to metals, PFASs, organophosphates, and organochlorines on early child development. ISEE Conference Abstracts, 2021, 2021, .	0.0	0