

Vikas Kumar

List of Publications by Year in descending order

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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	Hydrogeochemical characteristics of surface and groundwater: suitability for human consumption and irrigated agriculture purposes in Suruliyar sub basin, South India. <i>Environmental Geochemistry and Health</i> , 2022, 44, 1713-1737.	3.4	7
2	Framework for risk assessment of PFAS utilizing experimental studies and in-silico models. <i>Environmental Research</i> , 2022, 208, 112722.	7.5	1
3	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
4	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
5	ANN-Based Integrated Risk Ranking Approach: A Case Study of Contaminants of Emerging Concern of Fish and Seafood in Europe. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 1598.	2.6	4
6	Characterization of river biofilm responses to the exposure with heavy metals using a novel micro fluorometer biosensor. <i>Aquatic Toxicology</i> , 2021, 231, 105732.	4.0	6
7	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
8	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
9	EXHES study reveals the impact of prenatal exposure to metals, PFASs, organophosphates, and organochlorines on early child development. <i>ISEE Conference Abstracts</i> , 2021, 2021, .	0.0	0
10	EDC-induced mechanisms of immunotoxicity: a systematic review. <i>Critical Reviews in Toxicology</i> , 2021, 51, 634-652.	3.9	11
11	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
12	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. <i>Environmental Research</i> , 2020, 186, 109534.	7.5	7
13	Test and Risk Assessment Strategies for combined exposure to multiple chemicals. <i>Food and Chemical Toxicology</i> , 2020, 144, 111607.	3.6	10
14	Maternal exposure to mixtures of dienestrol, linuron and flutamide. Part II: Endocrine-related gene expression assessment on male offspring rat testes. <i>Food and Chemical Toxicology</i> , 2020, 144, 111603.	3.6	3
15	ROS networks: designs, aging, Parkinson's disease and precision therapies. <i>Npj Systems Biology and Applications</i> , 2020, 6, 34.	3.0	50
16	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
17	An integrative translational framework for chemical induced neurotoxicity – a systematic review. <i>Critical Reviews in Toxicology</i> , 2020, 50, 424-438.	3.9	12
18	Maternal exposure to mixtures of dienestrol, linuron and flutamide. Part I: Feminization effects on male rat offspring. <i>Food and Chemical Toxicology</i> , 2020, 139, 111256.	3.6	8

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19	A systems toxicology approach to compare the heavy metal mixtures (Pb, As, MeHg) impact in neurodegenerative diseases. Food and Chemical Toxicology, 2020, 139, 111257.	3.6	26
20	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. Food and Chemical Toxicology, 2020, 143, 111510.	3.6	18
21	Bisphenol A analogues (BPS and BPF) present a greater obesogenic capacity in 3T3-L1 cell line. Food and Chemical Toxicology, 2020, 140, 111298.	3.6	36
22	Hepatotoxicity of the pesticides imazalil, thiacloprid and clothianidin – Individual and mixture effects in a 28-day study in female Wistar rats. Food and Chemical Toxicology, 2020, 140, 111306.	3.6	31
23	Integrated Translation Framework for Endocrine Disruptors in the area of Computational Toxicology. Issues in Toxicology, 2020, , 80-120.	0.1	1
24	Physiology-based toxicokinetic modelling in the frame of the European Human Biomonitoring Initiative. Environmental Research, 2019, 172, 216-230.	7.5	15
25	Prenatal exposure to PFOS and PFOA in a pregnant women cohort of Catalonia, Spain. Environmental Research, 2019, 175, 384-392.	7.5	41
26	The quantity-quality trade-off: differential effects of daily food times on reproductive performance and offspring quality in diurnal zebra finches. Journal of Experimental Biology, 2019, 222, .	1.7	10
27	The development of a pregnancy PBPK Model for Bisphenol A and its evaluation with the available biomonitoring data. Science of the Total Environment, 2018, 624, 55-68.	8.0	57
28	Comparative In Vitro Toxicity Evaluation of Heavy Metals (Lead, Cadmium, Arsenic, and Methylmercury) on HT-22 Hippocampal Cell Line. Biological Trace Element Research, 2018, 184, 226-239.	3.5	34
29	An in vitro cytotoxic approach to assess the toxicity of heavy metals and their binary mixtures on hippocampal HT-22 cell line. Toxicology Letters, 2018, 282, 25-36.	0.8	31
30	Comparing dietary and non-dietary source contribution of BPA and DEHP to prenatal exposure: A Catalonia (Spain) case study. Environmental Research, 2018, 166, 25-34.	7.5	78
31	Development of a human physiologically based pharmacokinetic (PBPK) model for phthalate (DEHP) and its metabolites: A bottom up modeling approach. Toxicology Letters, 2018, 296, 152-162.	0.8	30
32	Differential protein expression of hippocampal cells associated with heavy metals (Pb, As, and MeHg) neurotoxicity: Deepening into the molecular mechanism of neurodegenerative diseases. Journal of Proteomics, 2018, 187, 106-125.	2.4	38
33	Finding synergies for 3Rs – Toxicokinetics and read-across: Report from an EPAA partners' Forum. Regulatory Toxicology and Pharmacology, 2018, 99, 5-21.	2.7	31
34	Performance of Raphidocelis subcapitata exposed to heavy metal mixtures. Science of the Total Environment, 2017, 601-602, 865-873.	8.0	24
35	Effects on the reproductive system of young male rats of subcutaneous exposure to n-butylparaben. Food and Chemical Toxicology, 2017, 106, 47-57.	3.6	25
36	Prenatal exposure estimation of BPA and DEHP using integrated external and internal dosimetry: A case study. Environmental Research, 2017, 158, 566-575.	7.5	39

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37	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
38	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
39	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
40	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
41	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
42	Managing reverse exchanges in service supply chains. <i>Supply Chain Management</i> , 2016, 21, 157-165.	6.4	15
43	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
44	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
45	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
46	A decision support system to find the best water allocation strategies in a Mediterranean river basin in future scenarios of global change. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2016, 28, 331-350.	2.8	7
47	Physiologically based pharmacokinetic modeling of perfluoroalkyl substances in the human body. <i>Toxicological and Environmental Chemistry</i> , 2015, 97, 814-827.	1.2	16
48	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
49	Special Issue – Applications of reference models for supply-chain integration. <i>Production Planning and Control</i> , 2014, 25, 1059-1064.	8.8	6
50	Bayesian Network Application to Land Suitability Classification in the Sewage Sludge Amendment of Agricultural Soils. <i>Human and Ecological Risk Assessment (HERA)</i> , 2014, 20, 1077-1098.	3.4	7
51	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
52	PBPK modeling for PFOS and PFOA: Validation with human experimental data. <i>Toxicology Letters</i> , 2014, 230, 244-251.	0.8	73
53	Bis(Methylpyridine)EDTA Derivative as a Potential Ligand for PET Imaging: Synthesis, Complexation, and Biological Evaluation. <i>Chemical Biology and Drug Design</i> , 2014, 84, 704-711.	3.2	1
54	Dynamic interactions between hydrogeological and exposure parameters in daily dose prediction under uncertainty and temporal variability. <i>Journal of Hazardous Materials</i> , 2013, 263, 197-206.	12.4	7

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55	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
56	Integrated modelling for Sustainability Appraisal of Urban river corridors: Going beyond compartmentalised thinking. <i>Water Research</i> , 2013, 47, 7221-7234.	11.3	18
57	Investigation for the Interaction of Tyramine-Based Anthraquinone Analogue with Human Serum Albumin by Optical Spectroscopic Technique. <i>Chemical Biology and Drug Design</i> , 2013, 81, 343-348.	3.2	4
58	A Multi-Agent Architecture Framework to Improve Wine Supply Chain Coordination. <i>Lecture Notes in Mechanical Engineering</i> , 2013, , 1077-1088.	0.4	4
59	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
60	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
61	Does it help? Testing the usefulness of a tool to aid Integrated Catchment Management. <i>Procedia Environmental Sciences</i> , 2012, 13, 797-806.	1.4	2
62	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
63	Challenges in developing an integrated catchment management model. <i>Water and Environment Journal</i> , 2011, 25, 345-354.	2.2	22
64	A Multi-Agent Self Correcting Architecture for Distributed Manufacturing Supply Chain. <i>IEEE Systems Journal</i> , 2011, 5, 6-15.	4.6	20
65	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
66	Health Risk Map of a Petrochemical Complex through GIS-Fuzzy Integration of Air Pollution Monitoring Data. <i>Human and Ecological Risk Assessment (HERA)</i> , 2011, 17, 873-891.	3.4	9
67	Integrated fuzzy framework to incorporate uncertainty in risk management. <i>International Journal of Environment and Pollution</i> , 2010, 42, 270.	0.2	4
68	A Multi-agent Framework for Agile Outsourced Supply Chains. , 2010, , 207-226.		6
69	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
70	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
71	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
72	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

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73	Definition and GIS-based characterization of an integral risk index applied to a chemical/petrochemical area. Chemosphere, 2006, 64, 1526-1535.	8.2	45
74	Fuzzy uncertainty analysis in system modelling. Computer Aided Chemical Engineering, 2005, 20, 391-396.	0.5	13