Sudin Bhattacharya

List of Publications by Year
in descending order

37 papers	2,390 citations	394286 19 h-index	414303 32 g-index
45 all docs	45 docs citations	45 times ranked	3624 citing authors

#	Article	IF	Citations
1	Recent advances in 2D and 3D in vitro systems using primary hepatocytes, alternative hepatocyte sources and non-parenchymal liver cells and their use in investigating mechanisms of hepatotoxicity, cell signaling and ADME. Archives of Toxicology, 2013, 87, 1315-1530.	1.9	1,089
2	Toxicity Testing in the 21st Century: Defining New Risk Assessment Approaches Based on Perturbation of Intracellular Toxicity Pathways. PLoS ONE, 2011, 6, e20887.	1.1	175
3	Ultrasensitive response motifs: basic amplifiers in molecular signalling networks. Open Biology, 2013, 3, 130031.	1.5	165
4	A deterministic map of Waddington's epigenetic landscape for cell fate specification. BMC Systems Biology, 2011, 5, 85.	3.0	116
5	A map of the PPARÎ± transcription regulatory network for primary human hepatocytes. Chemico-Biological Interactions, 2014, 209, 14-24.	1.7	89
6	CATMoS: Collaborative Acute Toxicity Modeling Suite. Environmental Health Perspectives, 2021, 129, 47013.	2.8	63
7	Molecular Signaling Network Motifs Provide a Mechanistic Basis for Cellular Threshold Responses. Environmental Health Perspectives, 2014, 122, 1261-1270.	2.8	62
8	Adaptive Posttranslational Control in Cellular Stress Response Pathways and Its Relationship to Toxicity Testing and Safety Assessment. Toxicological Sciences, 2015, 147, 302-316.	1.4	61
9	Bridging the Data Gap From in vitro Toxicity Testing to Chemical Safety Assessment Through Computational Modeling. Frontiers in Public Health, 2018, 6, 261.	1.3	54
10	Modeling Drug- and Chemical-Induced Hepatotoxicity with Systems Biology Approaches. Frontiers in Physiology, 2012, 3, 462.	1.3	53
11	Computational Systems Biology and Dose-Response Modeling in Relation to New Directions in Toxicity Testing. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2010, 13, 253-276.	2.9	51
12	Fractal dimensions of silica gels generated using reactive molecular dynamics simulations. Journal of Chemical Physics, 2005, 122, 094715.	1.2	45
13	A Bistable Switch Underlying B-Cell Differentiation and Its Disruption by the Environmental Contaminant 2,3,7,8-Tetrachlorodibenzo-p-dioxin. Toxicological Sciences, 2010, 115, 51-65.	1.4	45
14	Single-Nuclei RNA Sequencing Assessment of the Hepatic Effects of 2,3,7,8-Tetrachlorodibenzo-p-dioxin. Cellular and Molecular Gastroenterology and Hepatology, 2021, 11, 147-159.	2.3	42
15	Molecular Dynamics Simulation Study of Growth Regimes during Polycondensation of Silicic Acid:â€‰ from Silica Nanoparticles to Porous Gels. Journal of Physical Chemistry C, 2008, 112, 1764-1771.	1.5	40
16	Aryl Hydrocarbon Receptor Activation Suppresses EBF1 and PAX5 and Impairs Human B Lymphopoiesis. Journal of Immunology, 2017, 199, 3504-3515.	0.4	31
17	Embracing systems toxicology at single-cell resolution. Current Opinion in Toxicology, 2019, 16, 49-57.	2.6	24
18	Stochastic Modeling of B Lymphocyte Terminal Differentiation and Its Suppression by Dioxin. BMC Systems Biology, 2010, 4, 40.	3.0	23

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19	Pregnancy-specific physiologically-based toxicokinetic models for bisphenol A and bisphenol S. Environment International, 2021, 147, 106301.	4.8	23
20	Toxicogenomics for transcription factor-governed molecular pathways: moving on to roles beyond classification and prediction. Archives of Toxicology, 2013, 87, 7-11.	1.9	20
21	A Theoretical Model of the Wnt Signaling Pathway in the Epithelial Mesenchymal Transition. Theoretical Biology and Medical Modelling, 2017, 14, 19.	2.1	19
22	All-or-none suppression of B cell terminal differentiation by environmental contaminant 2,3,7,8-tetrachlorodibenzo-p-dioxin. Toxicology and Applied Pharmacology, 2013, 268, 17-26.	1.3	16
23	The role of cellular contact and TGF-beta signaling in the activation of the epithelial mesenchymal transition (EMT). Cell Adhesion and Migration, 2019, 13, 63-75.	1.1	12
24	Identifying qualitative differences in PPARÎ± signaling networks in human and rat hepatocytes and their significance for next generation chemical risk assessment methods. Toxicology in Vitro, 2020, 64, 104463.	1.1	12
25	Gene co-regulation and co-expression in the aryl hydrocarbon receptor-mediated transcriptional regulatory network in the mouse liver. Archives of Toxicology, 2020, 94, 113-126.	1.9	11
26	Identification of a unique gene expression signature in mercury and 2,3,7,8-tetrachlorodibenzo-p-dioxin co-exposed cells. Toxicology Research, 2017, 6, 312-323.	0.9	9
27	Phenotypic Changes in T Cell and Macrophage Subtypes in Perivascular Adipose Tissues Precede High-Fat Diet-Induced Hypertension. Frontiers in Physiology, 2021, 12, 616055.	1.3	9
28	A Negative Feedback Loop and Transcription Factor Cooperation Regulate Zonal Gene Induction by 2, 3, 7, 8â€Tetrachlorodibenzoâ€pâ€Dioxin in the Mouse Liver. Hepatology Communications, 2022, 6, 750-764.	2.0	8
29	Benchmarking of a Bayesian single cell RNAseq differential gene expression test for doseâ€“response study designs. Nucleic Acids Research, 2022, 50, e48-e48.	6.5	7
30	Blood pressure changes PVAT function and transcriptome: use of the mid-thoracic aorta coarcted rat. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H1313-H1324.	1.5	4
31	Ultrasensitive Response Motifs in Biochemical Networks. , 0, , 199-217.		2
32	Bioengineering of Genetically Encoded Gene Promoter Repressed by the Flavonoid Apigenin for Constructing Intracellular Sensor for Molecular Events. Biosensors, 2021, 11, 137.	2.3	1
33	Single Cell Universal Differential Equations: A Machine Learning Framework for Extracting Ordinary Differential Equations for Gene Regulatory Network Inference. FASEB Journal, 2021, 35, .	0.2	1
34	Computational Systems Biology Modeling of Dosimetry and Cellular Response Pathways. , 0, , 155-173.		0
35	Abstract MP05: The Mechanism Of The Pvat Pro-inflammatory Micro-environment Formation During The Development Of High Fat Diet-induced Hypertension. Hypertension, 2021, 78, .	1.3	0
36	Generative Deep Learning of the Single Cell Dose Response of 2,3,7,8 Tetrachlorodibenzoâ€•p â€dioxin in Mouse Liver. FASEB Journal, 2022, 36, .	0.2	0

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37	Modeling the influence of cell-cell contact and TGF-Î² signaling on the epithelial mesenchymal transition in MCF7 breast carcinoma cells. Journal of Theoretical Biology, 2022, , 111160.	0.8	0