Sudin Bhattacharya

List of Publications by Citations

35 papers	1,733 citations	15 h-index	41 g-index
45 ext. papers	2,102 ext. citations	5.4 avg, IF	4.25 L-index

#	Paper	IF	Citations
35	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, 1315-530	5.8	837
34	Toxicity testing in the 21 century: defining new risk assessment approaches based on perturbation of intracellular toxicity pathways. *PLoS ONE*, **2011**, 6, e20887	3.7	148
33	Ultrasensitive response motifs: basic amplifiers in molecular signalling networks. *Open Biology*, **2013**, 3, 130031	7	116
32	A deterministic map of Waddingtonâs epigenetic landscape for cell fate specification. *BMC Systems Biology*, **2011**, 5, 85	3.5	84
31	A map of the PPARÎ transcription regulatory network for primary human hepatocytes. *Chemico-Biological Interactions*, **2014**, 209, 14-24	5	79
30	Molecular signaling network motifs provide a mechanistic basis for cellular threshold responses. *Environmental Health Perspectives*, **2014**, 122, 1261-70	8.4	51
29	Modeling drug- and chemical-induced hepatotoxicity with systems biology approaches. *Frontiers in Physiology*, **2012**, 3, 462	4.6	48
28	Adaptive Posttranslational Control in Cellular Stress Response Pathways and Its Relationship to Toxicity Testing and Safety Assessment. *Toxicological Sciences*, **2015**, 147, 302-16	4.4	46
27	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, 253-76	8.6	42
26	Fractal dimensions of silica gels generated using reactive molecular dynamics simulations. *Journal of Chemical Physics*, **2005**, 122, 094715	3.9	40
25	Molecular Dynamics Simulation Study of Growth Regimes during Polycondensation of Silicic Acid: from Silica Nanoparticles to Porous Gels. *Journal of Physical Chemistry C*, **2008**, 112, 1764-1771	3.8	35
24	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	4.4	33
23	Bridging the Data Gap From Toxicity Testing to Chemical Safety Assessment Through Computational Modeling. *Frontiers in Public Health*, **2018**, 6, 261	6	24
22	Stochastic modeling of B lymphocyte terminal differentiation and its suppression by dioxin. *BMC Systems Biology*, **2010**, 4, 40	3.5	19
21	Aryl Hydrocarbon Receptor Activation Suppresses EBF1 and PAX5 and Impairs Human B Lymphopoiesis. *Journal of Immunology*, **2017**, 199, 3504-3515	5.3	16
20	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	4.6	14
19	CATMoS: Collaborative Acute Toxicity Modeling Suite. *Environmental Health Perspectives*, **2021**, 129, 47013	8.4	14

18	A Theoretical Model of the Wnt Signaling Pathway in the Epithelial Mesenchymal Transition. *Theoretical Biology and Medical Modelling*, **2017**, 14, 19	2.3	12
17	Embracing Systems Toxicology at Single-Cell Resolution. *Current Opinion in Toxicology*, **2019**, 16, 49-57	4.4	10
16	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	5.8	8
15	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	3.2	7
14	Identifying qualitative differences in PPARβ signaling networks in human and rat hepatocytes and their significance for next generation chemical risk assessment methods. *Toxicology in Vitro*, **2020**, 64, 104463	3.6	7
13	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	7.9	7
12	Identification of a unique gene expression signature in mercury and 2,3,7,8-tetrachlorodibenzo--dioxin co-exposed cells. *Toxicology Research*, **2017**, 6, 312-323	2.6	6
11	Pregnancy-specific physiologically-based toxicokinetic models for bisphenol A and bisphenol S. *Environment International*, **2021**, 147, 106301	12.9	6
10	Phenotypic Changes in T Cell and Macrophage Subtypes in Perivascular Adipose Tissues Precede High-Fat Diet-Induced Hypertension. *Frontiers in Physiology*, **2021**, 12, 616055	4.6	3
9	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	5.2	2
8	Ultrasensitive Response Motifs in Biochemical Networks199-217		2
7	Gene Coregulation and Coexpression in the Aryl Hydrocarbon Receptor-mediated Transcriptional Regulatory Network in the Mouse Liver		1
6	Bioengineering of Genetically Encoded Gene Promoter Repressed by the Flavonoid Apigenin for Constructing Intracellular Sensor for Molecular Events. *Biosensors*, **2021**, 11,	5.9	1
5	Gene and Protein Expression Modeling Nested Motifs in Cellular and Tissue Response Networks219-233		1
4	Bistable Signaling Motifs and Cell Fate Decisions181-198		1
3	Role of Core Biological Motifs in Dose-Response Modeling: An Example with Switchlike Circuits **2011**, 147-173		
2	Computational Systems Biology Modeling of Dosimetry and Cellular Response Pathways155-173		
1	Modeling the influence of cell-cell contact and TGF-β signaling on the epithelial mesenchymal transition in MCF7 breast carcinoma cells. *Journal of Theoretical Biology*, **2022**, 111160	2.3	