

Harish Shankaran

List of Publications by Year in descending order

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27
papers

1,151
citations

471509

17
h-index

552781

26
g-index

27
all docs

27
docs citations

27
times ranked

1667
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid and sustained nuclearâ€“cytoplasmic ERK oscillations induced by epidermal growth factor. <i>Molecular Systems Biology</i> , 2009, 5, 332.	7.2	216
2	Aspects of hydrodynamic shear regulating shear-induced platelet activation and self-association of von Willebrand factor in suspension. <i>Blood</i> , 2003, 101, 2637-2645.	1.4	210
3	Cell Surface Receptors for Signal Transduction and Ligand Transport: A Design Principles Study. <i>PLoS Computational Biology</i> , 2007, 3, e101.	3.2	75
4	Receptor downregulation and desensitization enhance the information processing ability of signalling receptors. <i>BMC Systems Biology</i> , 2007, 1, 48.	3.0	64
5	Modeling the Effects of HER/ErbB1-3 Coexpression on Receptor Dimerization and Biological Response. <i>Biophysical Journal</i> , 2006, 90, 3993-4009.	0.5	62
6	Solution Structure of Human von Willebrand Factor Studied Using Small Angle Neutron Scattering*. <i>Journal of Biological Chemistry</i> , 2006, 281, 38266-38275.	3.4	60
7	Hydrodynamic Forces Applied on Intercellular Bonds, Soluble Molecules, and Cell-Surface Receptors. <i>Biophysical Journal</i> , 2004, 86, 576-588.	0.5	57
8	Shear and Time-Dependent Changes in Mac-1, LFA-1, and ICAM-3 Binding Regulate Neutrophil Homotypic Adhesion. <i>Journal of Immunology</i> , 2000, 164, 3798-3805.	0.8	56
9	HER/ErbB receptor interactions and signaling patterns in human mammary epithelial cells. <i>BMC Cell Biology</i> , 2009, 10, 78.	3.0	34
10	Oscillatory dynamics of the extracellular signal-regulated kinase pathway. <i>Current Opinion in Genetics and Development</i> , 2010, 20, 650-655.	3.3	34
11	The Ability of Poloxamers to Inhibit Platelet Aggregation Depends on their Physicochemical Properties. <i>Thrombosis and Haemostasis</i> , 2001, 86, 1532-1539.	3.4	30
12	Physiologically-based pharmacokinetic model for Fentanyl in support of the development of Provisional Advisory Levels. <i>Toxicology and Applied Pharmacology</i> , 2013, 273, 464-476.	2.8	29
13	Nonlinear Flow Affects Hydrodynamic Forces and Neutrophil Adhesion Rates in Coneâ€“Plate Viscometers. <i>Biophysical Journal</i> , 2001, 80, 2631-2648.	0.5	27
14	Biomechanics of P-Selectin PSGL-1 Bonds: Shear Threshold and Integrin-Independent Cell Adhesion. <i>Biophysical Journal</i> , 2006, 90, 2221-2234.	0.5	24
15	Basic Fibroblast Growth Factor Regulates Persistent ERK Oscillations in Premalignant but Not Malignant JB6 Cells. <i>Journal of Investigative Dermatology</i> , 2010, 130, 1444-1456.	0.7	24
16	Structure of the EGF receptor transactivation circuit integrates multiple signals with cell context. <i>Molecular BioSystems</i> , 2010, 6, 1293.	2.9	23
17	Quantifying the effects of co-expressing EGFR and HER2 on HER activation and trafficking. <i>Biochemical and Biophysical Research Communications</i> , 2008, 371, 220-224.	2.1	20
18	Cell typeâ€“dependent gene transcription profile in a threeâ€“dimensional human skin tissue model exposed to low doses of ionizing radiation: Implications for medical exposures. <i>Environmental and Molecular Mutagenesis</i> , 2012, 53, 247-259.	2.2	17

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19	Model-Based Analysis of HER Activation in Cells Co-Expressing EGFR, HER2 and HER3. PLoS Computational Biology, 2013, 9, e1003201.	3.2	16
20	Integrated experimental and model-based analysis reveals the spatial aspects of EGFR activation dynamics. Molecular BioSystems, 2012, 8, 2868.	2.9	15
21	Integrated analysis reveals that STAT3 is central to the crosstalk between HER/ErbB receptor signaling pathways in human mammary epithelial cells. Molecular BioSystems, 2015, 11, 146-158.	2.9	14
22	ERK Oscillation-Dependent Gene Expression Patterns and Deregulation by Stress Response. Chemical Research in Toxicology, 2014, 27, 1496-1503.	3.3	13
23	Spatial Aspects in Biological System Simulations. Methods in Enzymology, 2011, 487, 485-511.	1.0	10
24	Smad Signaling Dynamics: Insights from a Parsimonious Model. Science Signaling, 2008, 1, pe41.	3.6	8
25	Inhibition of ERK oscillations by ionizing radiation and reactive oxygen species. Molecular Carcinogenesis, 2011, 50, 424-432.	2.7	7
26	Integrated experimental and computational approach to understand the effects of heavy ion radiation on skin homeostasis. Integrative Biology (United Kingdom), 2013, 5, 1229-1243.	1.3	6
27	Using Imaging Methods to Interrogate Radiation-Induced Cell Signaling. Radiation Research, 2012, 177, 496-507.	1.5	0