

David J Klinke II

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

8,372
citations

361296

20
h-index

175177

52
g-index

63
all docs

63
docs citations

63
times ranked

13732
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1535750.	5.5	6,961
2	Exosomes: improved methods to characterize their morphology, RNA content, and surface protein biomarkers. <i>Analyst</i> , 2015, 140, 6631-6642.	1.7	254
3	Extent of Beta Cell Destruction Is Important but Insufficient to Predict the Onset of Type 1 Diabetes Mellitus. <i>PLoS ONE</i> , 2008, 3, e1374.	1.1	83
4	A Theoretical Study of Carbon Chemisorption on Ni(111) and Co(0001) Surfaces. <i>Journal of Catalysis</i> , 1998, 178, 540-554.	3.1	70
5	Exosomes derived from B16F0 melanoma cells alter the transcriptome of cytotoxic T cells that impacts mitochondrial respiration. <i>FEBS Journal</i> , 2018, 285, 1033-1050.	2.2	61
6	A theoretical study of hydrogen chemisorption on Ni(111) and Co(0001) surfaces. <i>Surface Science</i> , 1999, 429, 169-177.	0.8	55
7	An empirical Bayesian approach for model-based inference of cellular signaling networks. <i>BMC Bioinformatics</i> , 2009, 10, 371.	1.2	52
8	Construction of a mechanistic model of Fischer-Tropsch synthesis on Ni(1 1 1) and Co(0 0 0 1) surfaces. <i>Chemical Engineering Science</i> , 1999, 54, 3379-3389.	1.9	47
9	Induction of Wnt-Inducible Signaling Protein-1 Correlates with Invasive Breast Cancer Oncogenesis and Reduced Type 1 Cell-Mediated Cytotoxic Immunity: A Retrospective Study. <i>PLoS Computational Biology</i> , 2014, 10, e1003409.	1.5	43
10	WNT1-inducible signaling pathway protein 1 (WISP1/CCN4) stimulates melanoma invasion and metastasis by promoting the epithelial-mesenchymal transition. <i>Journal of Biological Chemistry</i> , 2019, 294, 5261-5280.	1.6	43
11	Identification and Classification of <i>bcl</i> Genes and Proteins of <i>Bacillus cereus</i> Group Organisms and Their Application in <i>Bacillus anthracis</i> Detection and Fingerprinting. <i>Applied and Environmental Microbiology</i> , 2009, 75, 7163-7172.	1.4	41
12	Mechanism reduction during computer generation of compact reaction models. <i>AIChE Journal</i> , 1997, 43, 1828-1837.	1.8	40
13	Integrating Epidemiological Data into a Mechanistic Model of Type 2 Diabetes: Validating the Prevalence of Virtual Patients. <i>Annals of Biomedical Engineering</i> , 2008, 36, 321-334.	1.3	39
14	Melanoma exosomes deliver a complex biological payload that upregulates PTPN 11 to suppress T lymphocyte function. <i>Pigment Cell and Melanoma Research</i> , 2017, 30, 203-218.	1.5	39
15	Signal Transduction Networks in Cancer: Quantitative Parameters Influence Network Topology. <i>Cancer Research</i> , 2010, 70, 1773-1782.	0.4	32
16	An elastic-net logistic regression approach to generate classifiers and gene signatures for types of immune cells and T helper cell subsets. <i>BMC Bioinformatics</i> , 2019, 20, 433.	1.2	31
17	Identifying causal networks linking cancer processes and anti-tumor immunity using Bayesian network inference and metagene constructs. <i>Biotechnology Progress</i> , 2016, 32, 470-479.	1.3	30
18	Quantifying Crosstalk Among Interferon- γ , Interleukin-12, and Tumor Necrosis Factor Signaling Pathways Within a T _H 1 Cell Model. <i>Science Signaling</i> , 2012, 5, ra32.	1.6	25

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19	A quantitative systems approach to identify paracrine mechanisms that locally suppress immune response to Interleukin-12 in the B16 melanoma model. Integrative Biology (United Kingdom), 2012, 4, 925.	0.6	25
20	Inferring relevant control mechanisms for interleukin-12 signaling in naïve CD4 ⁺ T cells. Immunology and Cell Biology, 2011, 89, 100-110.	1.0	24
21	Inferring alterations in cell-cell communication in HER2+ breast cancer using secretome profiling of three cell models. Biotechnology and Bioengineering, 2014, 111, 1853-1863.	1.7	23
22	A theoretical study of methylidyne chemisorption on Ni(111) and Co(0001) surfaces. Surface Science, 1999, 425, 334-342.	0.8	20
23	Modulating Temporal Control of NF- κ B Activation: Implications for Therapeutic and Assay Selection. Biophysical Journal, 2008, 94, 4249-4259.	0.2	20
24	The ratio of P40 monomer to dimer is an important determinant of IL-12 bioactivity. Journal of Theoretical Biology, 2006, 240, 323-335.	0.8	19
25	Scalable analysis of flow cytometry data using R/Bioconductor. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2009, 75A, 699-706.	1.1	18
26	Inferring predominant pathways in cellular models of breast cancer using limited sample proteomic profiling. BMC Cancer, 2010, 10, 291.	1.1	18
27	In silico model-based inference: A contemporary approach for hypothesis testing in network biology. Biotechnology Progress, 2014, 30, 1247-1261.	1.3	18
28	Human Breast Cancer Xenograft Model Implicates Peroxisome Proliferator-activated Receptor Signaling as Driver of Cancer-induced Muscle Fatigue. Clinical Cancer Research, 2019, 25, 2336-2347.	3.2	18
29	Timescale analysis of rule-based biochemical reaction networks. Biotechnology Progress, 2012, 28, 33-44.	1.3	17
30	Enhancing the discovery and development of immunotherapies for cancer using quantitative and systems pharmacology: Interleukin-12 as a case study. , 2015, 3, 27.		17
31	CD8 + T cell response to adenovirus vaccination and subsequent suppression of tumor growth: modeling, simulation and analysis. BMC Systems Biology, 2015, 9, 27.	3.0	16
32	A multiscale systems perspective on cancer, immunotherapy, and Interleukin-12. Molecular Cancer, 2010, 9, 242.	7.9	15
33	Age-Corrected Beta Cell Mass Following Onset of Type 1 Diabetes Mellitus Correlates with Plasma C-Peptide in Humans. PLoS ONE, 2011, 6, e26873.	1.1	15
34	An evolutionary perspective on anti-tumor immunity. Frontiers in Oncology, 2012, 2, 202.	1.3	15
35	Quantifying spontaneous metastasis in a syngeneic mouse melanoma model using real time PCR. Analyst, The, 2017, 142, 2945-2953.	1.7	14
36	Interlocked positive and negative feedback network motifs regulate β -catenin activity in the adherens junction pathway. Molecular Biology of the Cell, 2015, 26, 4135-4148.	0.9	12

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37	Cell Communication Network Factor 4 (CCN4/WISP1) Shifts Melanoma Cells from a Fragile Proliferative State to a Resilient Metastatic State. <i>Cellular and Molecular Bioengineering</i> , 2020, 13, 45-60.	1.0	11
38	A Multi-Scale Model of Dendritic Cell Education and Trafficking in the Lung: Implications for T Cell Polarization. <i>Annals of Biomedical Engineering</i> , 2007, 35, 937-955.	1.3	10
39	A Quantitative Systems Pharmacology Perspective on Cancer Immunology. <i>Processes</i> , 2015, 3, 235-256.	1.3	8
40	An Unsupervised Strategy for Identifying Epithelial-Mesenchymal Transition State Metrics in Breast Cancer and Melanoma. <i>IScience</i> , 2020, 23, 101080.	1.9	8
41	Protein-based identification of quantitative trait loci associated with malignant transformation in two HER2+ cellular models of breast cancer. <i>Proteome Science</i> , 2012, 10, 11.	0.7	7
42	An age-structured model of dendritic cell trafficking in the lung. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006, 291, L1038-L1049.	1.3	6
43	Eavesdropping on altered cell-to-cell signaling in cancer by secretome profiling. <i>Molecular and Cellular Oncology</i> , 2016, 3, e1029061.	0.3	6
44	Cell Communication Network factor 4 promotes tumor-induced immunosuppression in melanoma. <i>EMBO Reports</i> , 2022, 23, e54127.	2.0	6
45	Validating a Dimensionless Number for Glucose Homeostasis in Humans. <i>Annals of Biomedical Engineering</i> , 2009, 37, 1886-1896.	1.3	5
46	Differential proteomic analysis of caveolin-1 KO cells reveals Sh2b3 and Clec12b as novel interaction partners of caveolin-1 and Capns1 as a potential mediator of caveolin-1-induced apoptosis. <i>Analyst</i> , The, 2013, 138, 6986.	1.7	5
47	In silico model-based inference: an emerging approach for inverse problems in engineering better medicines. <i>Current Opinion in Chemical Engineering</i> , 2015, 10, 14-24.	3.8	5
48	Interleukin-12 elicits a non-canonical response in B16 melanoma cells to enhance survival. <i>Cell Communication and Signaling</i> , 2020, 18, 78.	2.7	4
49	Inferring the Impact of Regulatory Mechanisms that Underpin CD8+ T Cell Control of B16 Tumor Growth In vivo Using Mechanistic Models and Simulation. <i>Frontiers in Pharmacology</i> , 2017, 7, 515.	1.6	3
50	Data-driven learning how oncogenic gene expression locally alters heterocellular networks. <i>Nature Communications</i> , 2022, 13, 1986.	5.8	3
51	Understanding Immunology via Engineering Design: The Role of Mathematical Prototyping. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-9.	0.7	2
52	Is immune checkpoint modulation a potential therapeutic option in triple negative breast cancer?. <i>Breast Cancer Research</i> , 2014, 16, 457.	2.2	2
53	An in silico exploration of combining Interleukin-12 with Oxaliplatin to treat liver-metastatic colorectal cancer. <i>BMC Cancer</i> , 2020, 20, 26.	1.1	1
54	Identifying local mechanisms for tumor-derived immunosuppression: an integrated phenotypic screening approach. , 2014, 2, .		0