

Keith A Houck

List of Publications by Year in descending order

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112
papers

16,925
citations

25034

57
h-index

23533

111
g-index

115
all docs

115
docs citations

115
times ranked

12034
citing authors

#	ARTICLE	IF	CITATIONS
1	The <i>fms</i> -Like Tyrosine Kinase, a Receptor for Vascular Endothelial Growth Factor. <i>Science</i> , 1992, 255, 989-991.	12.6	1,974
2	Molecular and Biological Properties of the Vascular Endothelial Growth Factor Family of Proteins. <i>Endocrine Reviews</i> , 1992, 13, 18-32.	20.1	1,494
3	The Vascular Endothelial Growth Factor Family: Identification of a Fourth Molecular Species and Characterization of Alternative Splicing of RNA. <i>Molecular Endocrinology</i> , 1991, 5, 1806-1814.	3.7	1,242
4	The ToxCast Program for Prioritizing Toxicity Testing of Environmental Chemicals. <i>Toxicological Sciences</i> , 2007, 95, 5-12.	3.1	851
5	The vascular endothelial growth factor family of polypeptides. <i>Journal of Cellular Biochemistry</i> , 1991, 47, 211-218.	2.6	542
6	<i>In Vitro</i> Screening of Environmental Chemicals for Targeted Testing Prioritization: The ToxCast Project. <i>Environmental Health Perspectives</i> , 2010, 118, 485-492.	6.0	519
7	An environmentally benign antimicrobial nanoparticle based on a silver-infused lignin core. <i>Nature Nanotechnology</i> , 2015, 10, 817-823.	31.5	493
8	ToxCast Chemical Landscape: Paving the Road to 21st Century Toxicology. <i>Chemical Research in Toxicology</i> , 2016, 29, 1225-1251.	3.3	456
9	The Toxicity Data Landscape for Environmental Chemicals. <i>Environmental Health Perspectives</i> , 2009, 117, 685-695.	6.0	418
10	Update on EPA's ToxCast Program: Providing High Throughput Decision Support Tools for Chemical Risk Management. <i>Chemical Research in Toxicology</i> , 2012, 25, 1287-1302.	3.3	410
11	Integration of Dosimetry, Exposure, and High-Throughput Screening Data in Chemical Toxicity Assessment. <i>Toxicological Sciences</i> , 2012, 125, 157-174.	3.1	336
12	Increased AKT Activity Contributes to Prostate Cancer Progression by Dramatically Accelerating Prostate Tumor Growth and Diminishing p27Kip1 Expression. <i>Journal of Biological Chemistry</i> , 2000, 275, 24500-24505.	3.4	322
13	The Vascular Endothelial Growth Factor Proteins: Identification of Biologically Relevant Regions by Neutralizing Monoclonal Antibodies. <i>Growth Factors</i> , 1992, 7, 53-64.	1.7	282
14	Endocrine Profiling and Prioritization of Environmental Chemicals Using ToxCast Data. <i>Environmental Health Perspectives</i> , 2010, 118, 1714-1720.	6.0	274
15	Zebrafish developmental screening of the ToxCast [®] Phase I chemical library. <i>Reproductive Toxicology</i> , 2012, 33, 174-187.	2.9	267
16	Induction of DNA Synthesis in Cultured Rat Hepatocytes Through Stimulation of α_1 Adrenoreceptor by Norepinephrine. <i>Science</i> , 1985, 227, 749-751.	12.6	256
17	Integrated Model of Chemical Perturbations of a Biological Pathway Using <i>In Vitro</i> High-Throughput Screening Assays for the Estrogen Receptor. <i>Toxicological Sciences</i> , 2015, 148, 137-154.	3.1	251
18	The Next Generation Blueprint of Computational Toxicology at the U.S. Environmental Protection Agency. <i>Toxicological Sciences</i> , 2019, 169, 317-332.	3.1	225

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19	Incorporating Human Dosimetry and Exposure into High-Throughput <i>In Vitro</i> Toxicity Screening. <i>Toxicological Sciences</i> , 2010, 117, 348-358.	3.1	222
20	ACToR – Aggregated Computational Toxicology Resource. <i>Toxicology and Applied Pharmacology</i> , 2008, 233, 7-13.	2.8	195
21	Impact of Environmental Chemicals on Key Transcription Regulators and Correlation to Toxicity End Points within EPA's ToxCast Program. <i>Chemical Research in Toxicology</i> , 2010, 23, 578-590.	3.3	190
22	Incorporating High-Throughput Exposure Predictions With Dosimetry-Adjusted <i>In Vitro</i> Bioactivity to Inform Chemical Toxicity Testing. <i>Toxicological Sciences</i> , 2015, 148, 121-136.	3.1	190
23	Chemical Genomics Profiling of Environmental Chemical Modulation of Human Nuclear Receptors. <i>Environmental Health Perspectives</i> , 2011, 119, 1142-1148.	6.0	189
24	Estimating Toxicity-Related Biological Pathway Altering Doses for High-Throughput Chemical Risk Assessment. <i>Chemical Research in Toxicology</i> , 2011, 24, 451-462.	3.3	188
25	Phenotypic screening of the ToxCast chemical library to classify toxic and therapeutic mechanisms. <i>Nature Biotechnology</i> , 2014, 32, 583-591.	17.5	175
26	Editor's Highlight: Analysis of the Effects of Cell Stress and Cytotoxicity on <i>In Vitro</i> Assay Activity Across a Diverse Chemical and Assay Space. <i>Toxicological Sciences</i> , 2016, 152, 323-339.	3.1	171
27	Profiling of the Tox21 10K compound library for agonists and antagonists of the estrogen receptor alpha signaling pathway. <i>Scientific Reports</i> , 2014, 4, 5664.	3.3	167
28	Development and Validation of a Computational Model for Androgen Receptor Activity. <i>Chemical Research in Toxicology</i> , 2017, 30, 946-964.	3.3	163
29	Analysis of Eight Oil Spill Dispersants Using Rapid, <i>In Vitro</i> Tests for Endocrine and Other Biological Activity. <i>Environmental Science & Technology</i> , 2010, 44, 5979-5985.	10.0	162
30	Profiling 976 ToxCast Chemicals across 331 Enzymatic and Receptor Signaling Assays. <i>Chemical Research in Toxicology</i> , 2013, 26, 878-895.	3.3	162
31	T0901317 is a dual LXR/FXR agonist. <i>Molecular Genetics and Metabolism</i> , 2004, 83, 184-187.	1.1	160
32	Computational Toxicology – A State of the Science Mini Review. <i>Toxicological Sciences</i> , 2008, 103, 14-27.	3.1	152
33	The Tox21 10K Compound Library: Collaborative Chemistry Advancing Toxicology. <i>Chemical Research in Toxicology</i> , 2021, 34, 189-216.	3.3	145
34	Predictive Model of Rat Reproductive Toxicity from ToxCast High Throughput Screening1. <i>Biology of Reproduction</i> , 2011, 85, 327-339.	2.7	142
35	Informing Selection of Nanomaterial Concentrations for ToxCast <i>In Vitro</i> Testing Based on Occupational Exposure Potential. <i>Environmental Health Perspectives</i> , 2011, 119, 1539-1546.	6.0	142
36	Molecular and biological properties of the vascular endothelial growth factor family of proteins. , 1992, 13, 18-32.		137

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37	Using <i>in Vitro</i> High Throughput Screening Assays to Identify Potential Endocrine-Disrupting Chemicals. <i>Environmental Health Perspectives</i> , 2013, 121, 7-14.	6.0	134
38	Nanomaterial Categorization for Assessing Risk Potential To Facilitate Regulatory Decision-Making. <i>ACS Nano</i> , 2015, 9, 3409-3417.	14.6	129
39	The Hypolipidemic Natural Product Guggulsterone Is a Promiscuous Steroid Receptor Ligand. <i>Molecular Pharmacology</i> , 2005, 67, 948-954.	2.3	124
40	Activity profiles of 309 ToxCast chemicals evaluated across 292 biochemical targets. <i>Toxicology</i> , 2011, 282, 1-15.	4.2	124
41	Perspectives on validation of high-throughput assays supporting 21st century toxicity testing. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2013, 30, 51-66.	1.5	118
42	<i>In Vitro</i> and Modelling Approaches to Risk Assessment from the U.S. Environmental Protection Agency ToxCast Programme. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2014, 115, 69-76.	2.5	114
43	Evaluation of high-throughput genotoxicity assays used in profiling the US EPA ToxCast chemicals. <i>Regulatory Toxicology and Pharmacology</i> , 2009, 55, 188-199.	2.7	105
44	Profiling Bioactivity of the ToxCast Chemical Library Using BioMAP Primary Human Cell Systems. <i>Journal of Biomolecular Screening</i> , 2009, 14, 1054-1066.	2.6	96
45	Tiered High-Throughput Screening Approach to Identify Thyroperoxidase Inhibitors Within the ToxCast Phase I and II Chemical Libraries. <i>Toxicological Sciences</i> , 2016, 151, 160-180.	3.1	95
46	Multi-well microelectrode array recordings detect neuroactivity of ToxCast compounds. <i>NeuroToxicology</i> , 2014, 44, 204-217.	3.0	91
47	Understanding mechanisms of toxicity: Insights from drug discovery research. <i>Toxicology and Applied Pharmacology</i> , 2008, 227, 163-178.	2.8	90
48	Altered responses of regenerating hepatocytes to norepinephrine and transforming growth factor type β . <i>Journal of Cellular Physiology</i> , 1989, 141, 503-509.	4.1	81
49	Retinoid X Receptor Is a Nonsilent Major Contributor to Vitamin D Receptor-Mediated Transcriptional Activation. <i>Molecular Endocrinology</i> , 2003, 17, 2320-2328.	3.7	81
50	An "EAR" on Environmental Surveillance and Monitoring: A Case Study on the Use of Exposure-Activity Ratios (EARs) to Prioritize Sites, Chemicals, and Bioactivities of Concern in Great Lakes Waters. <i>Environmental Science & Technology</i> , 2017, 51, 8713-8724.	10.0	81
51	Potential Toxicity of Complex Mixtures in Surface Waters from a Nationwide Survey of United States Streams: Identifying <i>in Vitro</i> Bioactivities and Causative Chemicals. <i>Environmental Science & Technology</i> , 2019, 53, 973-983.	10.0	75
52	Norepinephrine modulates the growth-inhibitory effect of transforming growth factor β in primary rat hepatocyte cultures. <i>Journal of Cellular Physiology</i> , 1988, 135, 551-555.	4.1	73
53	Predictive Endocrine Testing in the 21st Century Using <i>in Vitro</i> Assays of Estrogen Receptor Signaling Responses. <i>Environmental Science & Technology</i> , 2014, 48, 8706-8716.	10.0	71
54	Environmental surveillance and monitoring—The next frontiers for high-throughput toxicology. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 513-525.	4.3	70

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55	In Vitro Perturbations of Targets in Cancer Hallmark Processes Predict Rodent Chemical Carcinogenesis. <i>Toxicological Sciences</i> , 2013, 131, 40-55.	3.1	67
56	Using ToxCast [®] Data to Reconstruct Dynamic Cell State Trajectories and Estimate Toxicological Points of Departure. <i>Environmental Health Perspectives</i> , 2016, 124, 910-919.	6.0	65
57	Comprehensive Analyses and Prioritization of Tox21 10K Chemicals Affecting Mitochondrial Function by in-Depth Mechanistic Studies. <i>Environmental Health Perspectives</i> , 2018, 126, 077010.	6.0	60
58	A Natural Product Ligand of the Oxysterol Receptor, Liver X Receptor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 307, 291-296.	2.5	58
59	Bioactivity profiling of per- and polyfluoroalkyl substances (PFAS) identifies potential toxicity pathways related to molecular structure. <i>Toxicology</i> , 2021, 457, 152789.	4.2	57
60	Limited Chemical Structural Diversity Found to Modulate Thyroid Hormone Receptor in the Tox21 Chemical Library. <i>Environmental Health Perspectives</i> , 2019, 127, 97009.	6.0	56
61	Xenobiotic-Metabolizing Enzyme and Transporter Gene Expression in Primary Cultures of Human Hepatocytes Modulated by Toxcast Chemicals. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2010, 13, 329-346.	6.5	53
62	Evaluation of food-relevant chemicals in the ToxCast high-throughput screening program. <i>Food and Chemical Toxicology</i> , 2016, 92, 188-196.	3.6	53
63	The Key Characteristics of Carcinogens: Relationship to the Hallmarks of Cancer, Relevant Biomarkers, and Assays to Measure Them. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2020, 29, 1887-1903.	2.5	52
64	Quantitative High-Throughput Profiling of Environmental Chemicals and Drugs that Modulate Farnesoid X Receptor. <i>Scientific Reports</i> , 2014, 4, 6437.	3.3	51
65	Using Nuclear Receptor Activity to Stratify Hepatocarcinogens. <i>PLoS ONE</i> , 2011, 6, e14584.	2.5	48
66	Proline is required for the stimulation of DNA synthesis in hepatocyte cultures by EGF. <i>In Vitro</i> , 1985, 21, 121-124.	1.2	47
67	Screening the ToxCast phase II libraries for alterations in network function using cortical neurons grown on multi-well microelectrode array (mwMEA) plates. <i>Archives of Toxicology</i> , 2018, 92, 487-500.	4.2	46
68	Nontarget Screening of Per- and Polyfluoroalkyl Substances Binding to Human Liver Fatty Acid Binding Protein. <i>Environmental Science & Technology</i> , 2020, 54, 5676-5686.	10.0	45
69	Differential effect of growth factors on growth stimulation and phenotypic stability of glutamine-synthetase-positive and -negative hepatocytes in primary culture. <i>Differentiation</i> , 1986, 33, 45-55.	1.9	44
70	Dosimetric Anchoring of In Vivo and In Vitro Studies for Perfluorooctanoate and Perfluorooctanesulfonate. <i>Toxicological Sciences</i> , 2013, 136, 308-327.	3.1	44
71	High-Content Screening Assay for Activators of the Wnt/Fzd Pathway in Primary Human Cells. <i>Assay and Drug Development Technologies</i> , 2005, 3, 133-141.	1.2	43
72	Real-Time Growth Kinetics Measuring Hormone Mimicry for ToxCast Chemicals in T-47D Human Ductal Carcinoma Cells. <i>Chemical Research in Toxicology</i> , 2013, 26, 1097-1107.	3.3	41

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73	On selecting a minimal set of inÂvitro assays to reliably determine estrogen agonist activity. <i>Regulatory Toxicology and Pharmacology</i> , 2017, 91, 39-49.	2.7	39
74	Acidic fibroblast growth factor (HBGF-1) stimulates DNA synthesis in primary rat hepatocyte cultures. <i>Journal of Cellular Physiology</i> , 1990, 143, 129-132.	4.1	37
75	Profiling the ToxCast Library With a Pluripotent Human (H9) Stem Cell Line-Based Biomarker Assay for Developmental Toxicity. <i>Toxicological Sciences</i> , 2020, 174, 189-209.	3.1	34
76	High-Throughput Screening to Predict Chemical-Assay Interference. <i>Scientific Reports</i> , 2020, 10, 3986.	3.3	28
77	High-throughput toxicogenomic screening of chemicals in the environment using metabolically competent hepatic cell cultures. <i>Npj Systems Biology and Applications</i> , 2021, 7, 7.	3.0	28
78	Identifying environmental chemicals as agonists of the androgen receptor by using a quantitative high-throughput screening platform. <i>Toxicology</i> , 2017, 385, 48-58.	4.2	24
79	Conditional transformation of rat embryo fibroblast cells by a cyclin D1-cdk4 fusion gene. <i>Oncogene</i> , 1999, 18, 6343-6356.	5.9	21
80	Incorporating Biological, Chemical, and Toxicological Knowledge Into Predictive Models of Toxicity. <i>Toxicological Sciences</i> , 2012, 130, 440-441.	3.1	21
81	Identification of Thyroid Hormone Receptor Active Compounds Using a Quantitative High-Throughput Screening Platform. <i>Current Chemical Genomics and Translational Medicine</i> , 2014, 8, 36-46.	4.3	21
82	Use of high-throughput enzyme-based assay with xenobiotic metabolic capability to evaluate the inhibition of acetylcholinesterase activity by organophosphorous pesticides. <i>Toxicology in Vitro</i> , 2019, 56, 93-100.	2.4	19
83	A 15-ketosterol is a liver X receptor ligand that suppresses sterol-responsive element binding protein-2 activity. <i>Journal of Lipid Research</i> , 2006, 47, 1037-1044.	4.2	17
84	Evaluating biological activity of compounds by transcription factor activity profiling. <i>Science Advances</i> , 2018, 4, eaar4666.	10.3	16
85	Selecting a minimal set of androgen receptor assays for screening chemicals. <i>Regulatory Toxicology and Pharmacology</i> , 2020, 117, 104764.	2.7	15
86	Comprehensive interpretation of in vitro micronucleus test results for 292 chemicals: from hazard identification to risk assessment application. <i>Archives of Toxicology</i> , 2022, 96, 2067-2085.	4.2	15
87	New approach methods for testing chemicals for endocrine disruption potential. <i>Current Opinion in Toxicology</i> , 2018, 9, 40-47.	5.0	14
88	Cyclic AMP-independent activation of CYP3A4 gene expression by forskolin. <i>European Journal of Pharmacology</i> , 2005, 512, 9-13.	3.5	13
89	An evaluation of 25 selected <sc>T</sc>ox<sc>C</sc>ast chemicals in mediumâ€throughput assays to detect genotoxicity. <i>Environmental and Molecular Mutagenesis</i> , 2015, 56, 468-476.	2.2	13
90	Methods for evaluating variability in human health doseâ€response characterization. <i>Human and Ecological Risk Assessment (HERA)</i> , 2020, 26, 1755-1778.	3.4	13

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91	Workflow for Defining Reference Chemicals for Assessing Performance of In Vitro Assays. ALTEX: Alternatives To Animal Experimentation, 2019, 36, 261-276.	1.5	11
92	Characterization of physicochemical properties of nanomaterials and their immediate environments in high-throughput screening of nanomaterial biological activity. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2013, 5, 430-448.	6.1	10
93	Use of Neural Models of Proliferation and Neurite Outgrowth to Screen Environmental Chemicals in the ToxCast Phase I Library. Applied in Vitro Toxicology, 2015, 1, 131-139.	1.1	10
94	Exploration of xenobiotic metabolism within cell lines used for Tox21 chemical screening. Toxicology in Vitro, 2021, 73, 105109.	2.4	10
95	Confirmation of high-throughput screening data and novel mechanistic insights into VDR-xenobiotic interactions by orthogonal assays. Scientific Reports, 2018, 8, 8883.	3.3	8
96	Assessing bioactivity-exposure profiles of fruit and vegetable extracts in the BioMAP profiling system. Toxicology in Vitro, 2019, 54, 41-57.	2.4	8
97	Evaluation of a multiplexed, multispecies nuclear receptor assay for chemical hazard assessment. Toxicology in Vitro, 2021, 72, 105016.	2.4	8
98	The discovery of a new structural class of cyclin-dependent kinase inhibitors, aminoimidazo[1,2-a]pyridines. Molecular Cancer Therapeutics, 2004, 3, 1-9.	4.1	8
99	Screening for Activators of the Wnt/Wingless Type/ Frizzled Pathway by Automated Fluorescent Microscopy. Methods in Enzymology, 2006, 414, 140-150.	1.0	7
100	Comment on "On the Utility of ToxCast, ToxPi as Methods for Identifying New Obesogens". Environmental Health Perspectives, 2017, 125, A8-A11.	6.0	6
101	A gene expression biomarker for predictive toxicology to identify chemical modulators of NF- κ B. PLoS ONE, 2022, 17, e0261854.	2.5	6
102	Hepatopoietins A and B and hepatocyte growth. Digestive Diseases and Sciences, 1991, 36, 681-686.	2.3	5
103	Development of a quantitative morphological assessment of toxicant-treated zebrafish larvae using brightfield imaging and high-content analysis. Journal of Applied Toxicology, 2016, 36, 1214-1222.	2.8	5
104	Characterisation and validation of an in vitro transactivation assay based on the 22Rv1/MMTV_GR-KO cell line to detect human androgen receptor agonists and antagonists. Food and Chemical Toxicology, 2021, 152, 112206.	3.6	5
105	Carcinogenicity of isobutyl nitrite, β -picoline, and some acrylates. Lancet Oncology, The, 2018, 19, 1020-1022.	10.7	4
106	Harmonized Cross-Species Assessment of Endocrine and Metabolic Disruptors by Ecotox FACTORIAL Assay. Environmental Science & Technology, 2020, 54, 12142-12153.	10.0	4
107	Tox21BodyMap: a webtool to map chemical effects on the human body. Nucleic Acids Research, 2020, 48, W472-W476.	14.5	4
108	Quantitative Chemical Proteomics Reveals Interspecies Variations on Binding Schemes of L-FABP with Perfluorooctanesulfonate. Environmental Science & Technology, 2021, 55, 9012-9023.	10.0	4

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109	The benefits of data mining. <i>ELife</i> , 2017, 6, .	6.0	3
110	Comprehensive assessment of NR ligand polypharmacology by a multiplex reporter NR assay. <i>Scientific Reports</i> , 2022, 12, 3115.	3.3	2
111	Primary Cell Phenotypic Screening Illuminates ADRs and AOPs. <i>Cell Chemical Biology</i> , 2017, 24, 781-782.	5.2	1
112	Differential effect of growth factors on growth stimulation and phenotypic stability of glutamine-synthetase-positive and -negative hepatocytes in primary culture. <i>Differentiation</i> , 1987, 33, 45-55.	1.9	0