

Jorn Lotsch

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

3,187
citations

126858

33
h-index

161767

54
g-index

89
all docs

89
docs citations

89
times ranked

3218
citing authors

#	ARTICLE	IF	CITATIONS
1	Ziconotide for treatment of severe chronic pain. <i>Lancet, The</i> , 2010, 375, 1569-1577.	6.3	306
2	Genetic Predictors of the Clinical Response to Opioid Analgesics. <i>Clinical Pharmacokinetics</i> , 2004, 43, 983-1013.	1.6	230
3	Differential Opioid Action on Sensory and Affective Cerebral Pain Processing. <i>Clinical Pharmacology and Therapeutics</i> , 2008, 83, 577-588.	2.3	121
4	Epigenetics in pain and analgesia: An imminent research field. <i>European Journal of Pain</i> , 2011, 15, 11-16.	1.4	119
5	Current evidence for a genetic modulation of the response to analgesics. <i>Pain</i> , 2006, 121, 1-5.	2.0	113
6	Morphine-6-Glucuronide. <i>Clinical Pharmacokinetics</i> , 2001, 40, 485-499.	1.6	108
7	Pharmacokinetics of Non-Intravenous Formulations of Fentanyl. <i>Clinical Pharmacokinetics</i> , 2013, 52, 23-36.	1.6	107
8	Selective Antagonism of Opioid-Induced Ventilatory Depression by an Ampakine Molecule in Humans Without Loss of Opioid Analgesia. <i>Clinical Pharmacology and Therapeutics</i> , 2010, 87, 204-211.	2.3	105
9	Reduced hyperalgesia in homozygous carriers of a GTP cyclohydrolase 1 haplotype. <i>European Journal of Pain</i> , 2008, 12, 1069-1077.	1.4	97
10	Modulation of the central nervous effects of levomethadone by genetic polymorphisms potentially affecting its metabolism, distribution, and drug action. <i>Clinical Pharmacology and Therapeutics</i> , 2006, 79, 72-89.	2.3	91
11	Clinical Usefulness of Self-Rated Olfactory Performance—A Data Science-Based Assessment of 6000 Patients. <i>Chemical Senses</i> , 2019, 44, 357-364.	1.1	87
12	The human μ -opioid receptor gene polymorphism 118A > G decreases cortical activation in response to specific nociceptive stimulation.. <i>Behavioral Neuroscience</i> , 2006, 120, 1218-1224.	0.6	80
13	Relevance of frequent μ -opioid receptor polymorphisms for opioid activity in healthy volunteers. <i>Pharmacogenomics Journal</i> , 2006, 6, 200-210.	0.9	80
14	Fatal Respiratory Depression after Multiple Intravenous Morphine Injections. <i>Clinical Pharmacokinetics</i> , 2006, 45, 1051-1060.	1.6	75
15	Evidence for morphine-independent central nervous opioid effects after administration of codeine: Contribution of other codeine metabolites. <i>Clinical Pharmacology and Therapeutics</i> , 2006, 79, 35-48.	2.3	68
16	Computed ABC Analysis for Rational Selection of Most Informative Variables in Multivariate Data. <i>PLoS ONE</i> , 2015, 10, e0129767.	1.1	64
17	Machine-learning-derived classifier predicts absence of persistent pain after breast cancer surgery with high accuracy. <i>Breast Cancer Research and Treatment</i> , 2018, 171, 399-411.	1.1	53
18	Drug Interactions with Patient-Controlled Analgesia. <i>Clinical Pharmacokinetics</i> , 2002, 41, 31-57.	1.6	51

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19	Current evidence for a modulation of nociception by human genetic polymorphisms. <i>Pain</i> , 2007, 132, 18-22.	2.0	51
20	Pharmacogenetics of new analgesics. <i>British Journal of Pharmacology</i> , 2011, 163, 447-460.	2.7	51
21	The Partial 5-Hydroxytryptamine1A Receptor Agonist Buspirone does not Antagonize Morphine-induced Respiratory Depression in Humans. <i>Clinical Pharmacology and Therapeutics</i> , 2007, 81, 59-68.	2.3	50
22	Machine-learning based lipid mediator serum concentration patterns allow identification of multiple sclerosis patients with high accuracy. <i>Scientific Reports</i> , 2018, 8, 14884.	1.6	49
23	Population pharmacokinetics of fast release oral diclofenac in healthy volunteers: relation to pharmacodynamics in an experimental pain model. <i>Pharmaceutical Research</i> , 2000, 17, 77-84.	1.7	46
24	Machine Learning in Human Olfactory Research. <i>Chemical Senses</i> , 2019, 44, 11-22.	1.1	46
25	The 5-hydroxytryptamine 4 receptor agonist mosapride does not antagonize morphine-induced respiratory depression. <i>Clinical Pharmacology and Therapeutics</i> , 2005, 78, 278-287.	2.3	45
26	Sniffing out pharmacology: interactions of drugs with human olfaction. <i>Trends in Pharmacological Sciences</i> , 2012, 33, 193-199.	4.0	42
27	Explainable Artificial Intelligence (XAI) in Biomedicine: Making AI Decisions Trustworthy for Physicians and Patients. <i>BioMedInformatics</i> , 2022, 2, 1-17.	1.0	42
28	The Consequence of Concomitantly Present Functional Genetic Variants for the Identification of Functional Genotype-Phenotype Associations in Pain. <i>Clinical Pharmacology and Therapeutics</i> , 2009, 85, 25-30.	2.3	41
29	A critical appraisal of human genotyping for pain therapy. <i>Trends in Pharmacological Sciences</i> , 2010, 31, 312-317.	4.0	38
30	Identification of Molecular Fingerprints in Human Heat Pain Thresholds by Use of an Interactive Mixture Model R Toolbox (AdaptGauss). <i>International Journal of Molecular Sciences</i> , 2015, 16, 25897-25911.	1.8	38
31	Brain lesion-pattern analysis in patients with olfactory dysfunctions following head trauma. <i>NeuroImage: Clinical</i> , 2016, 11, 99-105.	1.4	37
32	Human pharmacological approaches to TRP-ion-channel-based analgesic drug development. <i>Drug Discovery Today</i> , 2018, 23, 2003-2012.	3.2	37
33	Pharmacokinetics of morphine-6-glucuronide and its formation from morphine after intravenous administration*. <i>Clinical Pharmacology and Therapeutics</i> , 1998, 63, 629-639.	2.3	36
34	Antinociceptive effects of morphine-6-glucuronide in homozygous MDR1a P-glycoprotein knockout and in wildtype mice in the hotplate test. <i>Life Sciences</i> , 2000, 66, 2393-2403.	2.0	34
35	The cyclooxygenase 2 genetic variant $\text{C}6765\text{G}>\text{C}$ does not modulate the effects of celecoxib on prostaglandin E2 production. <i>Clinical Pharmacology and Therapeutics</i> , 2006, 80, 621-632.	2.3	30
36	Low-dose drug combinations along molecular pathways could maximize therapeutic effectiveness while minimizing collateral adverse effects. <i>Drug Discovery Today</i> , 2011, 16, 1001-1006.	3.2	30

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37	Olfactory drug effects approached from human-derived data. <i>Drug Discovery Today</i> , 2015, 20, 1398-1406.	3.2	28
38	Consequences of a Human TRPA1 Genetic Variant on the Perception of Nociceptive and Olfactory Stimuli. <i>PLoS ONE</i> , 2014, 9, e95592.	1.1	26
39	Machine-Learned Data Structures of Lipid Marker Serum Concentrations in Multiple Sclerosis Patients Differ from Those in Healthy Subjects. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1217.	1.8	22
40	Effects of the opioid remifentanyl on olfactory function in healthy volunteers. <i>Life Sciences</i> , 2001, 69, 2279-2285.	2.0	21
41	Association of Saquinavir Plasma Concentrations with Side Effects but Not with Antiretroviral Outcome in Patients Infected with Protease Inhibitor-Susceptible Human Immunodeficiency Virus Type 1. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 3264-3272.	1.4	21
42	A data science based standardized Gini index as a Lorenz dominance preserving measure of the inequality of distributions. <i>PLoS ONE</i> , 2017, 12, e0181572.	1.1	20
43	Simultaneous screening for three mutations in the ABCB1 gene. <i>Genomics</i> , 2003, 82, 503-510.	1.3	19
44	Identification of disease-distinct complex biomarker patterns by means of unsupervised machine-learning using an interactive R toolbox (Umatrix). <i>Big Data Analytics</i> , 2018, 3, .	2.2	19
45	Congenital taurine deficiency in mice is associated with reduced sensitivity to nociceptive chemical stimulation. <i>Neuroscience</i> , 2014, 259, 63-70.	1.1	17
46	Current Projection Methods-Induced Biases at Subgroup Detection for Machine-Learning Based Data-Analysis of Biomedical Data. <i>International Journal of Molecular Sciences</i> , 2020, 21, 79.	1.8	15
47	Distribution Optimization: An evolutionary algorithm to separate Gaussian mixtures. <i>Scientific Reports</i> , 2020, 10, 648.	1.6	15
48	Bedside-to-Bench Pharmacology: A Complementary Concept to Translational Pharmacology. <i>Clinical Pharmacology and Therapeutics</i> , 2010, 87, 647-649.	2.3	14
49	Single and combined <i>IL28B</i> , <i>ITPA</i> and <i>SLC28A3</i> host genetic markers modulating response to anti-hepatitis C therapy. <i>Pharmacogenomics</i> , 2011, 12, 1729-1740.	0.6	14
50	The influence of inhibition of probenecid sensitive transporters on the central nervous system (CNS) uptake and the antinociceptive activity of morphine-6-glucuronide in rats. <i>Neuroscience Letters</i> , 2002, 329, 145-148.	1.0	13
51	A machine-learned computational functional genomics-based approach to drug classification. <i>European Journal of Clinical Pharmacology</i> , 2016, 72, 1449-1461.	0.8	12
52	Central encoding of the strength of intranasal chemosensory trigeminal stimuli in a human experimental pain setting. <i>Human Brain Mapping</i> , 2020, 41, 5240-5254.	1.9	12
53	Effects of oral δ^9 -tetrahydrocannabinol on the cerebral processing of olfactory input in healthy non-addicted subjects. <i>European Journal of Clinical Pharmacology</i> , 2017, 73, 1579-1587.	0.8	11
54	Machine-learned analysis of global and glial/opioid intersection-related DNA methylation in patients with persistent pain after breast cancer surgery. <i>Clinical Epigenetics</i> , 2019, 11, 167.	1.8	11

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55	Interpretation of cluster structures in pain-related phenotype data using explainable artificial intelligence (XAI). <i>European Journal of Pain</i> , 2021, 25, 442-465.	1.4	11
56	The Fundamental Clustering and Projection Suite (FCPS): A Dataset Collection to Test the Performance of Clustering and Data Projection Algorithms. <i>Data</i> , 2020, 5, 13.	1.2	11
57	Machine-learning-derived rules set excludes risk of Parkinson's disease in patients with olfactory or gustatory symptoms with high accuracy. <i>Journal of Neurology</i> , 2020, 267, 469-478.	1.8	10
58	Drugs and Epigenetic Molecular Functions. A Pharmacological Data Scientometric Analysis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7250.	1.8	10
59	Optimal distribution-preserving downsampling of large biomedical data sets (opdisDownsampling). <i>PLoS ONE</i> , 2021, 16, e0255838.	1.1	10
60	Next-generation sequencing of the human TRPV1 gene and the regulating co-players LTB4R and LTB4R2 based on a custom AmpliSeq panel. <i>PLoS ONE</i> , 2017, 12, e0180116.	1.1	9
61	Machine-learned identification of psychological subgroups with relation to pain interference in patients after breast cancer treatments. <i>Breast</i> , 2020, 50, 71-80.	0.9	9
62	A More Pessimistic Life Orientation Is Associated With Experimental Inducibility of a Neuropathy-like Pain Pattern in Healthy Individuals. <i>Journal of Pain</i> , 2015, 16, 791-800.	0.7	8
63	A non-parametric effect-size measure capturing changes in central tendency and data distribution shape. <i>PLoS ONE</i> , 2020, 15, e0239623.	1.1	8
64	Verapamil decreases glucuronidase activity in the gut. <i>Biochemical Pharmacology</i> , 2002, 63, 1575-1578.	2.0	7
65	A small yet comprehensive subset of human experimental pain models emerging from correlation analysis with a clinical quantitative sensory testing protocol in healthy subjects. <i>European Journal of Pain</i> , 2016, 20, 777-789.	1.4	7
66	Machine Learning and Pathway Analysis-Based Discovery of Metabolomic Markers Relating to Chronic Pain Phenotypes. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5085.	1.8	7
67	Rapid screening for potentially relevant polymorphisms in the human fatty acid amide hydrolase gene using Pyrosequencing. <i>Prostaglandins and Other Lipid Mediators</i> , 2007, 84, 128-137.	1.0	6
68	Higher pain scores, similar opioid doses and side effects associated with antipyretic analgesics in specialised tertiary pain care. <i>Inflammation Research</i> , 2010, 59, 989-995.	1.6	6
69	Necessity and Risks of Arterial Blood Sampling in Healthy Volunteer Studies. <i>Clinical Pharmacokinetics</i> , 2012, 51, 629-638.	1.6	6
70	Programming of a flexible computer simulation to visualize pharmacokinetic-pharmacodynamic models. <i>International Journal of Clinical Pharmacology and Therapeutics</i> , 2004, 42, 15-22.	0.3	6
71	Next-generation sequencing of human opioid receptor genes based on a custom AmpliSeq library and ion torrent personal genome machine. <i>Clinica Chimica Acta</i> , 2016, 463, 32-38.	0.5	5
72	Self-Ratings of Olfactory Function and Their Relation to Olfactory Test Scores. A Data Science-Based Analysis in Patients with Nasal Polyposis. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7279.	1.3	5

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73	Machine-Learning Points at Endoscopic, Quality of Life, and Olfactory Parameters as Outcome Criteria for Endoscopic Paranasal Sinus Surgery in Chronic Rhinosinusitis. <i>Journal of Clinical Medicine</i> , 2021, 10, 4245.	1.0	4
74	Visually guided preprocessing of bioanalytical laboratory data using an interactive R notebook (<i>ipgulMP</i>). <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2021, 10, 1371-1381.	1.3	4
75	Machine-Learning Analysis of Serum Proteomics in Neuropathic Pain after Nerve Injury in Breast Cancer Surgery Points at Chemokine Signaling via SIRT2 Regulation. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3488.	1.8	4
76	Non-invasive combined surrogates of remifentanyl blood concentrations with relevance to analgesia. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2013, 386, 865-873.	1.4	3
77	Data visualizations to detect systematic errors in laboratory assay results. <i>Pharmacology Research and Perspectives</i> , 2017, 5, e00369.	1.1	3
78	Delta-9-tetrahydrocannabinol reduces the performance in sensory delayed discrimination tasks. A pharmacological-fMRI study in healthy volunteers. <i>IBRO Reports</i> , 2019, 7, 117-128.	0.3	3
79	Biomedinformatics: A New Journal for the New Decade to Publish Biomedical Informatics Research. <i>BioMedInformatics</i> , 2021, 1, 1-5.	1.0	3
80	Machine-Learned Association of Next-Generation Sequencing-Derived Variants in Thermosensitive Ion Channels Genes with Human Thermal Pain Sensitivity Phenotypes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4367.	1.8	2
81	Data Science-Based Analysis of Patient Subgroup Structures Suggest Effects of Rhinitis on All Chemosensory Perceptions in the Upper Airways. <i>Chemical Senses</i> , 2021, 46, .	1.1	2
82	Sorting of Odor Dilutions Is a Meaningful Addition to Assessments of Olfactory Function as Suggested by Machine-Learning-Based Analyses. <i>Journal of Clinical Medicine</i> , 2022, 11, 4012.	1.0	2
83	Similar Maximum Systemic but not Local Cyclooxygenase-2 Inhibition by 50Âmg Lumiracoxib and 90Âmg Etoricoxib: A Randomized Controlled Trial in Healthy Subjects. <i>Pharmaceutical Research</i> , 2014, 31, 1813-22.	1.7	1
84	Computational Functional Genomics-Based AmpliSeqâ„¢ Panel for Next-Generation Sequencing of Key Genes of Pain. <i>International Journal of Molecular Sciences</i> , 2021, 22, 878.	1.8	1
85	Machine Learning Refutes Loss of Smell as a Risk Indicator of Diabetes Mellitus. <i>Journal of Clinical Medicine</i> , 2021, 10, 4971.	1.0	1