

# Jorn Lotsch

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76  
papers

2,466  
citations

29  
h-index

48  
g-index

89  
ext. papers

2,867  
ext. citations

5.3  
avg, IF

5.26  
L-index

#	Paper	IF	Citations
76	Explainable Artificial Intelligence (XAI) in Biomedicine: Making AI Decisions Trustworthy for Physicians and Patients. <i>BioMedInformatics</i> , <b>2022</b> , 2, 1-17		8
75	Visually guided preprocessing of bioanalytical laboratory data using an interactive R notebook (pguIMP). <i>CPT: Pharmacometrics and Systems Pharmacology</i> , <b>2021</b> , 10, 1371-1381	4.5	2
74	Interpretation of cluster structures in pain-related phenotype data using explainable artificial intelligence (XAI). <i>European Journal of Pain</i> , <b>2021</b> , 25, 442-465	3.7	4
73	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> , <b>2021</b> , 11, 7279	2.6	0
72	Optimal distribution-preserving downsampling of large biomedical data sets (opdisDownsampling). <i>PLoS ONE</i> , <b>2021</b> , 16, e0255838	3.7	1
71	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> , <b>2020</b> , 21,	6.3	1
70	Machine-learned identification of psychological subgroups with relation to pain interference in patients after breast cancer treatments. <i>Breast</i> , <b>2020</b> , 50, 71-80	3.6	2
69	Distribution Optimization: An evolutionary algorithm to separate Gaussian mixtures. <i>Scientific Reports</i> , <b>2020</b> , 10, 648	4.9	4
68	The Fundamental Clustering and Projection Suite (FCPS): A Dataset Collection to Test the Performance of Clustering and Data Projection Algorithms. <i>Data</i> , <b>2020</b> , 5, 13	2.3	2
67	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> , <b>2020</b> , 267, 469-478	5.5	4
66	A non-parametric effect-size measure capturing changes in central tendency and data distribution shape. <i>PLoS ONE</i> , <b>2020</b> , 15, e0239623	3.7	1
65	Central encoding of the strength of intranasal chemosensory trigeminal stimuli in a human experimental pain setting. <i>Human Brain Mapping</i> , <b>2020</b> , 41, 5240-5254	5.9	6
64	Clinical Usefulness of Self-Rated Olfactory Performance-A Data Science-Based Assessment of 6000 Patients. <i>Chemical Senses</i> , <b>2019</b> , 44, 357-364	4.8	57
63	Current Projection Methods-Induced Biases at Subgroup Detection for Machine-Learning Based Data-Analysis of Biomedical Data. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 21,	6.3	7
62	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> , <b>2019</b> , 11, 167	7.7	6
61	Delta-9-tetrahydrocannabinol reduces the performance in sensory delayed discrimination tasks. A pharmacological-fMRI study in healthy volunteers. <i>IBRO Reports</i> , <b>2019</b> , 7, 117-128	2	1
60	Machine Learning in Human Olfactory Research. <i>Chemical Senses</i> , <b>2019</b> , 44, 11-22	4.8	25

59	Human pharmacological approaches to TRP-ion-channel-based analgesic drug development. <i>Drug Discovery Today</i> , <b>2018</b> , 23, 2003-2012	8.8	33
58	Identification of disease-distinct complex biomarker patterns by means of unsupervised machine-learning using an interactive R toolbox (Umatrix). <i>Big Data Analytics</i> , <b>2018</b> , 3,	2.9	12
57	Machine-learning-derived classifier predicts absence of persistent pain after breast cancer surgery with high accuracy. <i>Breast Cancer Research and Treatment</i> , <b>2018</b> , 171, 399-411	4.4	28
56	Machine-learning based lipid mediator serum concentration patterns allow identification of multiple sclerosis patients with high accuracy. <i>Scientific Reports</i> , <b>2018</b> , 8, 14884	4.9	26
55	A data science based standardized Gini index as a Lorenz dominance preserving measure of the inequality of distributions. <i>PLoS ONE</i> , <b>2017</b> , 12, e0181572	3.7	14
54	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> , <b>2017</b> , 12, e0180116	3.7	4
53	Effects of oral Δ-tetrahydrocannabinol on the cerebral processing of olfactory input in healthy non-addicted subjects. <i>European Journal of Clinical Pharmacology</i> , <b>2017</b> , 73, 1579-1587	2.8	6
52	Data visualizations to detect systematic errors in laboratory assay results. <i>Pharmacology Research and Perspectives</i> , <b>2017</b> , 5, e00369	3.1	3
51	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> , <b>2017</b> , 18,	6.3	16
50	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> , <b>2016</b> , 463, 32-38	6.2	3
49	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> , <b>2016</b> , 20, 777-89	3.7	6
48	Brain lesion-pattern analysis in patients with olfactory dysfunctions following head trauma. <i>NeuroImage: Clinical</i> , <b>2016</b> , 11, 99-105	5.3	29
47	A machine-learned computational functional genomics-based approach to drug classification. <i>European Journal of Clinical Pharmacology</i> , <b>2016</b> , 72, 1449-1461	2.8	8
46	Olfactory drug effects approached from human-derived data. <i>Drug Discovery Today</i> , <b>2015</b> , 20, 1398-406	8.8	21
45	A more pessimistic life orientation is associated with experimental inducibility of a neuropathy-like pain pattern in healthy individuals. <i>Journal of Pain</i> , <b>2015</b> , 16, 791-800	5.2	8
44	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> , <b>2015</b> , 16, 25897-911	6.3	25
43	Computed ABC Analysis for Rational Selection of Most Informative Variables in Multivariate Data. <i>PLoS ONE</i> , <b>2015</b> , 10, e0129767	3.7	32
42	Similar maximum systemic but not local cyclooxygenase-2 inhibition by 50 mg lumiracoxib and 90 mg etoricoxib: a randomized controlled trial in healthy subjects. <i>Pharmaceutical Research</i> , <b>2014</b> , 31, 1813-22	4.5	1

41	Congenital taurine deficiency in mice is associated with reduced sensitivity to nociceptive chemical stimulation. <i>Neuroscience</i> , <b>2014</b> , 259, 63-70	3.9	16
40	Consequences of a human TRPA1 genetic variant on the perception of nociceptive and olfactory stimuli. <i>PLoS ONE</i> , <b>2014</b> , 9, e95592	3.7	20
39	Non-invasive combined surrogates of remifentanyl blood concentrations with relevance to analgesia. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , <b>2013</b> , 386, 865-73	3.4	3
38	Pharmacokinetics of non-intravenous formulations of fentanyl. <i>Clinical Pharmacokinetics</i> , <b>2013</b> , 52, 23-36.2	6.2	72
37	Necessity and risks of arterial blood sampling in healthy volunteer studies. <i>Clinical Pharmacokinetics</i> , <b>2012</b> , 51, 629-38	6.2	4
36	Sniffing out pharmacology: interactions of drugs with human olfaction. <i>Trends in Pharmacological Sciences</i> , <b>2012</b> , 33, 193-9	13.2	34
35	Pharmacogenetics of new analgesics. <i>British Journal of Pharmacology</i> , <b>2011</b> , 163, 447-60	8.6	37
34	Low-dose drug combinations along molecular pathways could maximize therapeutic effectiveness while minimizing collateral adverse effects. <i>Drug Discovery Today</i> , <b>2011</b> , 16, 1001-6	8.8	25
33	Single and combined IL28B, ITPA and SLC28A3 host genetic markers modulating response to anti-hepatitis C therapy. <i>Pharmacogenomics</i> , <b>2011</b> , 12, 1729-40	2.6	14
32	Epigenetics in pain and analgesia: an imminent research field. <i>European Journal of Pain</i> , <b>2011</b> , 15, 11-6	3.7	84
31	Selective antagonism of opioid-induced ventilatory depression by an ampakine molecule in humans without loss of opioid analgesia. <i>Clinical Pharmacology and Therapeutics</i> , <b>2010</b> , 87, 204-11	6.1	91
30	Bedside-to-bench pharmacology: a complementary concept to translational pharmacology. <i>Clinical Pharmacology and Therapeutics</i> , <b>2010</b> , 87, 647-9	6.1	12
29	A critical appraisal of human genotyping for pain therapy. <i>Trends in Pharmacological Sciences</i> , <b>2010</b> , 31, 312-7	13.2	35
28	Ziconotide for treatment of severe chronic pain. <i>Lancet, The</i> , <b>2010</b> , 375, 1569-77	4.0	249
27	Higher pain scores, similar opioid doses and side effects associated with antipyretic analgesics in specialised tertiary pain care. <i>Inflammation Research</i> , <b>2010</b> , 59, 989-95	7.2	6
26	The consequence of concomitantly present functional genetic variants for the identification of functional genotype-phenotype associations in pain. <i>Clinical Pharmacology and Therapeutics</i> , <b>2009</b> , 85, 25-30	6.1	37
25	Differential opioid action on sensory and affective cerebral pain processing. <i>Clinical Pharmacology and Therapeutics</i> , <b>2008</b> , 83, 577-88	6.1	100
24	Reduced hyperalgesia in homozygous carriers of a GTP cyclohydrolase 1 haplotype. <i>European Journal of Pain</i> , <b>2008</b> , 12, 1069-77	3.7	90

23	The partial 5-hydroxytryptamine <sub>1A</sub> receptor agonist buspirone does not antagonize morphine-induced respiratory depression in humans. <i>Clinical Pharmacology and Therapeutics</i> , <b>2007</b> , 81, 59-68	6.1	42
22	Rapid screening for potentially relevant polymorphisms in the human fatty acid amide hydrolase gene using Pyrosequencing. <i>Prostaglandins and Other Lipid Mediators</i> , <b>2007</b> , 84, 128-37	3.7	6
21	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> , <b>2007</b> , 51, 3264-72	5.9	19
20	Current evidence for a modulation of nociception by human genetic polymorphisms. <i>Pain</i> , <b>2007</b> , 132, 18-22	8	43
19	Fatal respiratory depression after multiple intravenous morphine injections. <i>Clinical Pharmacokinetics</i> , <b>2006</b> , 45, 1051-60	6.2	57
18	Current evidence for a genetic modulation of the response to analgesics. <i>Pain</i> , <b>2006</b> , 121, 1-5	8	100
17	The human mu-opioid receptor gene polymorphism 118A > G decreases cortical activation in response to specific nociceptive stimulation. <i>Behavioral Neuroscience</i> , <b>2006</b> , 120, 1218-24	2.1	73
16	Relevance of frequent mu-opioid receptor polymorphisms for opioid activity in healthy volunteers. <i>Pharmacogenomics Journal</i> , <b>2006</b> , 6, 200-10	3.5	74
15	Evidence for morphine-independent central nervous opioid effects after administration of codeine: contribution of other codeine metabolites. <i>Clinical Pharmacology and Therapeutics</i> , <b>2006</b> , 79, 35-48	6.1	62
14	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> , <b>2006</b> , 79, 72-89	6.1	81
13	The cyclooxygenase 2 genetic variant -765G>C does not modulate the effects of celecoxib on prostaglandin E <sub>2</sub> production. <i>Clinical Pharmacology and Therapeutics</i> , <b>2006</b> , 80, 621-32	6.1	28
12	The 5-hydroxytryptamine <sub>4</sub> receptor agonist mosapride does not antagonize morphine-induced respiratory depression. <i>Clinical Pharmacology and Therapeutics</i> , <b>2005</b> , 78, 278-87	6.1	40
11	Genetic predictors of the clinical response to opioid analgesics: clinical utility and future perspectives. <i>Clinical Pharmacokinetics</i> , <b>2004</b> , 43, 983-1013	6.2	201
10	Programming of a flexible computer simulation to visualize pharmacokinetic-pharmacodynamic models. <i>International Journal of Clinical Pharmacology and Therapeutics</i> , <b>2004</b> , 42, 15-22	2	5
9	Simultaneous screening for three mutations in the ABCB1 gene. <i>Genomics</i> , <b>2003</b> , 82, 503-10	4.3	19
8	Verapamil decreases glucuronidase activity in the gut. <i>Biochemical Pharmacology</i> , <b>2002</b> , 63, 1575-8	6	7
7	Drug interactions with patient-controlled analgesia. <i>Clinical Pharmacokinetics</i> , <b>2002</b> , 41, 31-57	6.2	45
6	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> , <b>2002</b> , 329, 145-8	3.3	13

5	Morphine-6-glucuronide: an analgesic of the future?. <i>Clinical Pharmacokinetics</i> , <b>2001</b> , 40, 485-99	6.2	88
4	Effects of the opioid remifentanil on olfactory function in healthy volunteers. <i>Life Sciences</i> , <b>2001</b> , 69, 2279-85	6.8	17
3	Population pharmacokinetics of fast release oral diclofenac in healthy volunteers: relation to pharmacodynamics in an experimental pain model. <i>Pharmaceutical Research</i> , <b>2000</b> , 17, 77-84	4.5	41
2	Antinociceptive effects of morphine-6-glucuronide in homozygous MDR1a P-glycoprotein knockout and in wildtype mice in the hotplate test. <i>Life Sciences</i> , <b>2000</b> , 66, 2393-403	6.8	31
1	Pharmacokinetics of morphine-6-glucuronide and its formation from morphine after intravenous administration. <i>Clinical Pharmacology and Therapeutics</i> , <b>1998</b> , 63, 629-39	6.1	33