

Jeppe Sturis

List of Publications by Year in descending order

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74
papers

6,275
citations

101543

36
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82547

72
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74
all docs

74
docs citations

74
times ranked

4838
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Non-Insulin-Dependent Diabetes Mellitus " A Genetically Programmed Failure of the Beta Cell to Compensate for Insulin Resistance. <i>New England Journal of Medicine</i> , 1996, 334, 777-783. | 27.0 | 542 |
| 2 | One Week's Treatment With the Long-Acting Glucagon-Like Peptide 1 Derivative Liraglutide (NN2211) Markedly Improves 24-h Glycemia and β - and α -Cell Function and Reduces Endogenous Glucose Release in Patients with Type 2 Diabetes. <i>Diabetes</i> , 2004, 53, 1187-1194. | 0.6 | 417 |
| 3 | Insulin secretory defects in polycystic ovary syndrome. Relationship to insulin sensitivity and family history of non-insulin-dependent diabetes mellitus.. <i>Journal of Clinical Investigation</i> , 1995, 96, 520-527. | 8.2 | 366 |
| 4 | Relative effects of calorie restriction and weight loss in noninsulin-dependent diabetes mellitus.. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1993, 77, 1287-1293. | 3.6 | 282 |
| 5 | Bedtime Administration of NN2211, a Long-Acting GLP-1 Derivative, Substantially Reduces Fasting and Postprandial Glycemia in Type 2 Diabetes. <i>Diabetes</i> , 2002, 51, 424-429. | 0.6 | 275 |
| 6 | Pharmacokinetics, Pharmacodynamics, Safety, and Tolerability of a Single-Dose of NN2211, a Long-Acting Glucagon-Like Peptide 1 Derivative, in Healthy Male Subjects. <i>Diabetes Care</i> , 2002, 25, 1398-1404. | 8.6 | 272 |
| 7 | Effects of Metformin on Insulin Secretion, Insulin Action, and Ovarian Steroidogenesis in Women with Polycystic Ovary Syndrome. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1997, 82, 524-530. | 3.6 | 260 |
| 8 | Insulin secretory abnormalities in subjects with hyperglycemia due to glucokinase mutations.. <i>Journal of Clinical Investigation</i> , 1994, 93, 1120-1130. | 8.2 | 254 |
| 9 | Altered Insulin Secretory Responses to Glucose in Diabetic and Nondiabetic Subjects With Mutations in the Diabetes Susceptibility Gene MODY3 on Chromosome 12. <i>Diabetes</i> , 1996, 45, 1503-1510. | 0.6 | 245 |
| 10 | The GLP-1 Derivative NN2211 Restores β -Cell Sensitivity to Glucose in Type 2 Diabetic Patients After a Single Dose. <i>Diabetes</i> , 2003, 52, 1786-1791. | 0.6 | 205 |
| 11 | Small-molecule agonists for the glucagon-like peptide 1 receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 937-942. | 7.1 | 204 |
| 12 | GLP-1 derivative liraglutide in rats with β -cell deficiencies: influence of metabolic state on β -cell mass dynamics. <i>British Journal of Pharmacology</i> , 2003, 140, 123-132. | 5.4 | 179 |
| 13 | Ultradian Oscillations of Leptin Secretion in Humans. <i>Biochemical and Biophysical Research Communications</i> , 1996, 228, 733-738. | 2.1 | 176 |
| 14 | Modeling the Insulin-Glucose Feedback System: The Significance of Pulsatile Insulin Secretion. <i>Journal of Theoretical Biology</i> , 2000, 207, 361-375. | 1.7 | 176 |
| 15 | Defects in Insulin Secretion and Action in Women With a History of Gestational Diabetes. <i>Diabetes</i> , 1995, 44, 506-512. | 0.6 | 149 |
| 16 | Glucose- and Interleukin-1 α -Induced β -Cell Apoptosis Requires Ca ²⁺ Influx and Extracellular Signal-Regulated Kinase (ERK) 1/2 Activation and Is Prevented by a Sulfonylurea Receptor 1/Inwardly Rectifying K ⁺ Channel 6.2 (SUR/Kir6.2) Selective Potassium Channel Opener in Human Islets. <i>Diabetes</i> , 2004, 53, 1706-1713. | 0.6 | 149 |
| 17 | Novel Tricyclic- β -alkyloxyphenylpropionic Acids: Dual PPAR α / β Agonists with Hypolipidemic and Antidiabetic Activity. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 789-804. | 6.4 | 139 |
| 18 | A novel high-affinity peptide antagonist to the insulin receptor. <i>Biochemical and Biophysical Research Communications</i> , 2008, 376, 380-383. | 2.1 | 136 |

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|----|---|-----|-----------|
| 19 | Altered Insulin Secretory Responses to Glucose in Subjects with a Mutation in the MODY1 Gene on Chromosome 20. <i>Diabetes</i> , 1995, 44, 699-704. | 0.6 | 132 |
| 20 | Clinical Phenotypes, Insulin Secretion, and Insulin Sensitivity in Kindreds With Maternally Inherited Diabetes and Deafness Due to Mitochondrial tRNA ^{Leu} (UUR) Gene Mutation. <i>Diabetes</i> , 1996, 45, 478-487. | 0.6 | 121 |
| 21 | Lack of control by glucose of ultradian insulin secretory oscillations in impaired glucose tolerance and in non-insulin-dependent diabetes mellitus.. <i>Journal of Clinical Investigation</i> , 1993, 92, 262-271. | 8.2 | 112 |
| 22 | Entrainment of pulsatile insulin secretion by oscillatory glucose infusion.. <i>Journal of Clinical Investigation</i> , 1991, 87, 439-445. | 8.2 | 95 |
| 23 | Twenty-four-hour insulin secretion rates, circulating concentrations of fuel substrates and gut incretin hormones in healthy offspring of Type II (non-insulin-dependent) diabetic parents: evidence of several aberrations. <i>Diabetologia</i> , 1999, 42, 1314-1323. | 6.3 | 90 |
| 24 | Sleepiness, Performance, and Neuroendocrine Function during Sleep Deprivation: Effects of Exposure to Bright Light or Exercise. <i>Journal of Biological Rhythms</i> , 1997, 12, 245-258. | 2.6 | 78 |
| 25 | NN2211: a long-acting glucagon-like peptide-1 derivative with anti-diabetic effects in glucose-intolerant pigs. <i>European Journal of Pharmacology</i> , 2002, 451, 217-225. | 3.5 | 69 |
| 26 | Failure of physiological plasma glucose excursions to entrain high-frequency pulsatile insulin secretion in type 2 diabetes. <i>Diabetes</i> , 2000, 49, 1334-1340. | 0.6 | 66 |
| 27 | Glucocorticoid induced insulin resistance impairs basal but not glucose entrained high-frequency insulin pulsatility in humans. <i>Diabetologia</i> , 2002, 45, 49-55. | 6.3 | 62 |
| 28 | Dual PPAR α / β activation provides enhanced improvement of insulin sensitivity and glycemic control in ZDF rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003, 284, E841-E854. | 3.5 | 61 |
| 29 | 24-hour glucose profiles during continuous or oscillatory insulin infusion. Demonstration of the functional significance of ultradian insulin oscillations.. <i>Journal of Clinical Investigation</i> , 1995, 95, 1464-1471. | 8.2 | 61 |
| 30 | Elucidating the Mechanism of Absorption of Fast-Acting Insulin Aspart: The Role of Niacinamide. <i>Pharmaceutical Research</i> , 2019, 36, 49. | 3.5 | 60 |
| 31 | Abnormalities in the ultradian oscillations of insulin secretion and glucose levels in Type 2 (non-insulin-dependent) diabetic patients. <i>Diabetologia</i> , 1992, 35, 681-689. | 6.3 | 55 |
| 32 | NN414, a SUR1/Kir6.2-Selective Potassium Channel Opener, Reduces Blood Glucose and Improves Glucose Tolerance in the VDF Zucker Rat. <i>Diabetes</i> , 2003, 52, 2513-2518. | 0.6 | 49 |
| 33 | Temporal Profiles and Clinical Significance of Pulsatile Insulin Secretion. <i>Hormone Research in Paediatrics</i> , 1998, 49, 178-184. | 1.8 | 41 |
| 34 | Alterations in the kinetics of C-peptide and insulin secretion in hyperthyroidism.. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1993, 76, 79-84. | 3.6 | 39 |
| 35 | Abnormal temporal patterns of glucose tolerance in obesity: relationship to sleep-related growth hormone secretion and circadian cortisol rhythmicity.. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1994, 79, 1797-1805. | 3.6 | 39 |
| 36 | Measurements of insulin responses as predictive markers of pancreatic β -cell mass in normal and β -cell-reduced lean and obese GÅttingen minipigs in vivo. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 290, E670-E677. | 3.5 | 36 |

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|----|---|-----|-----------|
| 37 | Oscillatory Insulin Secretion After Pancreas Transplant. <i>Diabetes</i> , 1993, 42, 855-861. | 0.6 | 34 |
| 38 | Phase-locked regions in a forced model of slow insulin and glucose oscillations. <i>Chaos</i> , 1995, 5, 193-199. | 2.5 | 34 |
| 39 | Concordant induction of rapid in vivo pulsatile insulin secretion by recurrent punctuated glucose infusions. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 278, E162-E170. | 3.5 | 33 |
| 40 | GLP-1 derivatives as novel compounds for the treatment of type 2 diabetes: Selection of NN2211 for clinical development. <i>Drugs of the Future</i> , 2001, 26, 677. | 0.1 | 32 |
| 41 | Combination of the insulin sensitizer, pioglitazone, and the long-acting GLP-1 human analog, liraglutide, exerts potent synergistic glucose-lowering efficacy in severely diabetic ZDF rats. <i>Diabetes, Obesity and Metabolism</i> , 2008, 10, 301-311. | 4.4 | 31 |
| 42 | Improved β -Cell Survival and Reduced Insulinitis in a Type 1 Diabetic Rat Model After Treatment With a β -Cell-Selective KATP Channel Opener. <i>Diabetes</i> , 2004, 53, 1089-1095. | 0.6 | 30 |
| 43 | Repaglinide acutely amplifies pulsatile insulin secretion by augmentation of burst mass with no effect on burst frequency. <i>Diabetes Care</i> , 2000, 23, 675-681. | 8.6 | 29 |
| 44 | Insulin detemir is a fully efficacious, low affinity agonist at the insulin receptor. <i>Diabetes, Obesity and Metabolism</i> , 2010, 12, 665-673. | 4.4 | 27 |
| 45 | High-frequency oscillations in circulating amylin concentrations in healthy humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 278, E484-E490. | 3.5 | 26 |
| 46 | Sensory nerve inactivation by resiniferatoxin improves insulin sensitivity in male obese Zucker rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 288, E1137-E1145. | 3.5 | 25 |
| 47 | Attenuation of hyperinsulinemia by NN414, a SUR1/Kir6.2 selective K ⁺ -adenosine triphosphate channel opener, improves glucose tolerance and lipid profile in obese Zucker rats. <i>Metabolism: Clinical and Experimental</i> , 2004, 53, 441-447. | 3.4 | 23 |
| 48 | Commemorating insulin's centennial: engineering insulin pharmacology towards physiology. <i>Trends in Pharmacological Sciences</i> , 2021, 42, 620-639. | 8.7 | 22 |
| 49 | Generic bifurcation structures of Arnold tongues in forced oscillators. <i>Physical Review A</i> , 1991, 44, 3503-3510. | 2.5 | 20 |
| 50 | Differential effects of glucose stimulation upon rapid pulses and ultradian oscillations of insulin secretion. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1993, 76, 895-901. | 3.6 | 20 |
| 51 | Explosion of limit cycles and chaotic waves in a simple nonlinear chemical system. <i>Physical Review E</i> , 2001, 64, 026209. | 2.1 | 20 |
| 52 | Acute hyperglycemia alters the ability of the normal β -cell to sense and respond to glucose. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002, 282, E917-E922. | 3.5 | 20 |
| 53 | Repaglinide treatment amplifies first-phase insulin secretion and high-frequency pulsatile insulin release in Type 2 diabetes. <i>Diabetic Medicine</i> , 2005, 22, 1408-1413. | 2.3 | 19 |
| 54 | Alterations in the Patterns of Insulin Secretion Before and After Diagnosis of IDDM. <i>Diabetes Care</i> , 1995, 18, 568-571. | 8.6 | 16 |

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|----|---|-----|-----------|
| 55 | Detecting functional relationships between simultaneous time series. <i>Physical Review E</i> , 2001, 64, 026221. | 2.1 | 13 |
| 56 | The conscious Göttingen minipig as a model for studying rapid pulsatile insulin secretion in vivo. <i>Diabetologia</i> , 2002, 45, 1389-1396. | 6.3 | 13 |
| 57 | Bifurcation sequence in a simple model of migratory dynamics. <i>System Dynamics Review</i> , 1988, 4, 208-217. | 1.9 | 12 |
| 58 | Synergistic effect of the human GLP-1 analogue liraglutide and a dual PPAR α/β agonist on glycaemic control in Zucker diabetic fatty rats. <i>Diabetes, Obesity and Metabolism</i> , 2009, 11, 795-803. | 4.4 | 12 |
| 59 | Chaotic structures in generic management models: Pedagogical principles and examples. <i>System Dynamics Review</i> , 1988, 4, 218-245. | 1.9 | 11 |
| 60 | Local and global bifurcations in a model of the economic long wave. <i>System Dynamics Review</i> , 1991, 7, 41-60. | 1.9 | 11 |
| 61 | Beta-cell selective KATP-channel activation protects beta-cells and human islets from human islet amyloid polypeptide induced toxicity. <i>Regulatory Peptides</i> , 2010, 165, 158-162. | 1.9 | 10 |
| 62 | Acute Insulin Responses to Intravenous Glucose and GLP-1 are Independent of Preceding High-frequency Insulin Pulse-defects Induced by Glucose Entrainment in Healthy Humans. <i>Hormone and Metabolic Research</i> , 2005, 37, 40-44. | 1.5 | 6 |
| 63 | Pharmacokinetics and pharmacodynamics of different modes of insulin pump delivery. A randomized, controlled study comparing subcutaneous and intravenous administration of insulin aspart. <i>Diabetic Medicine</i> , 2011, 28, 230-236. | 2.3 | 6 |
| 64 | Fast-acting insulin aspart (Fiasp $\text{\textcircled{R}}$) improves glycemic outcomes when used with MiniMed TM 670G hybrid closed-loop system in simulated trials compared to NovoLog $\text{\textcircled{R}}$. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 205, 106087. | 4.7 | 6 |
| 65 | Local and global bifurcations at infinity in models of glycolytic oscillations. <i>Journal of Mathematical Biology</i> , 1997, 36, 119-132. | 1.9 | 5 |
| 66 | HOMOCLINIC BIFURCATION TO INFINITY IN A MODEL OF THE ECONOMIC LONG WAVE. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1992, 02, 129-136. | 1.7 | 3 |
| 67 | Modelling Seasonal Predator-Prey Interactions. <i>Journal of Theoretical Biology</i> , 1996, 178, 99-103. | 1.7 | 3 |
| 68 | Comparison of the pharmacokinetics of three concentrations of insulin aspart during continuous subcutaneous insulin infusion (CSII) in a pig model. <i>Journal of Pharmacy and Pharmacology</i> , 2012, 65, 230-235. | 2.4 | 3 |
| 69 | Hopf bifurcation analysis applied to predator-prey modeling. <i>System Dynamics Review</i> , 1992, 8, 179-186. | 1.9 | 2 |
| 70 | CHAOS AND CHAOTIC TRANSIENTS IN A FORCED MODEL OF THE ECONOMIC LONG WAVE: THE ROLE OF HOMOCLINIC BIFURCATION TO INFINITY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1995, 05, 741-749. | 1.7 | 2 |
| 71 | Explorative Study of Pharmacokinetics and Pharmacodynamics after Change in Basal Insulin Infusion Rate. <i>Journal of Diabetes Science and Technology</i> , 2011, 5, 120-128. | 2.2 | 2 |
| 72 | Continuous Glucose Monitoring Sensor Glucose Levels and Insulin Pump Infusion Set Wear-Time During Treatment with Fast-Acting Insulin Aspart: A Post Hoc Analysis of Onset 5. <i>Diabetes Technology and Therapeutics</i> , 2022, 24, 10-17. | 4.4 | 2 |

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|----|--|-----|-----------|
| 73 | Irish endocrine society. Irish Journal of Medical Science, 1994, 163, 246-253. | 1.5 | 0 |
| 74 | Techniques for Assessing Ultradian Rhythms in Hormonal Secretion. Methods in Neurosciences, 1995, , 139-155. | 0.5 | 0 |