

# Martin S Angst

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3137947/publications.pdf>

Version: 2024-02-01

82  
papers

6,809  
citations

94381

37  
h-index

66879

78  
g-index

87  
all docs

87  
docs citations

87  
times ranked

8096  
citing authors

#	ARTICLE	IF	CITATIONS
1	Opioid-induced Hyperalgesia. <i>Anesthesiology</i> , 2006, 104, 570-587.	1.3	1,055
2	Opioid-induced Hyperalgesia in Humans. <i>Clinical Journal of Pain</i> , 2008, 24, 479-496.	0.8	511
3	Short-term infusion of the $\mu$ -opioid agonist remifentanyl in humans causes hyperalgesia during withdrawal. <i>Pain</i> , 2003, 106, 49-57.	2.0	374
4	An immune clock of human pregnancy. <i>Science Immunology</i> , 2017, 2, .	5.6	371
5	Opioid Tolerance and Hyperalgesia in Chronic Pain Patients After One Month of Oral Morphine Therapy: A Preliminary Prospective Study. <i>Journal of Pain</i> , 2006, 7, 43-48.	0.7	367
6	Human umbilical cord plasma proteins revitalize hippocampal function in aged mice. <i>Nature</i> , 2017, 544, 488-492.	13.7	317
7	Clinical recovery from surgery correlates with single-cell immune signatures. <i>Science Translational Medicine</i> , 2014, 6, 255ra131.	5.8	285
8	Patient phenotyping in clinical trials of chronic pain treatments: IMMPACT recommendations. <i>Pain</i> , 2016, 157, 1851-1871.	2.0	270
9	Discovery and validation of biomarkers to aid the development of safe and effective pain therapeutics: challenges and opportunities. <i>Nature Reviews Neurology</i> , 2020, 16, 381-400.	4.9	224
10	Sex Differences in Reported Pain Across 11,000 Patients Captured in Electronic Medical Records. <i>Journal of Pain</i> , 2012, 13, 228-234.	0.7	184
11	Best Practices for Postoperative Brain Health. <i>Anesthesia and Analgesia</i> , 2018, 127, 1406-1413.	1.1	183
12	Multimomics modeling of the immunome, transcriptome, microbiome, proteome and metabolome adaptations during human pregnancy. <i>Bioinformatics</i> , 2019, 35, 95-103.	1.8	162
13	Opioid Pharmacotherapy for Chronic Non-Cancer Pain in the United States: A Research Guideline for Developing an Evidence-Base. <i>Journal of Pain</i> , 2010, 11, 807-829.	0.7	153
14	Management of Perioperative Pain in Patients Chronically Consuming Opioids. <i>Regional Anesthesia and Pain Medicine</i> , 2004, 29, 576-591.	1.1	149
15	Pharmacology of Drugs Formulated with DepoFoam???. <i>Clinical Pharmacokinetics</i> , 2006, 45, 1153-1176.	1.6	135
16	Pain sensitivity and opioid analgesia: A pharmacogenomic twin study. <i>Pain</i> , 2012, 153, 1397-1409.	2.0	119
17	CytoNorm: A Normalization Algorithm for Cytometry Data. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020, 97, 268-278.	1.1	112
18	Comparative Analgesic and Mental Effects of Increasing Plasma Concentrations of Dexmedetomidine and Alfentanil in Humans. <i>Anesthesiology</i> , 2004, 101, 744-752.	1.3	94

#	ARTICLE	IF	CITATIONS
19	The Site of Action of Epidural Fentanyl in Humans: The Difference Between Infusion and Bolus Administration. <i>Anesthesia and Analgesia</i> , 2003, 97, 1428-1438.	1.1	93
20	A proteomic clock of human pregnancy. <i>American Journal of Obstetrics and Gynecology</i> , 2018, 218, 347.e1-347.e14.	0.7	82
21	Integrated trajectories of the maternal metabolome, proteome, and immunome predict labor onset. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	82
22	Intraoperative Use of Remifentanyl for TIVA: Postoperative Pain, Acute Tolerance, and Opioid-Induced Hyperalgesia. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2015, 29, S16-S22.	0.6	77
23	Patient-specific Immune States before Surgery Are Strong Correlates of Surgical Recovery. <i>Anesthesiology</i> , 2015, 123, 1241-1255.	1.3	70
24	Multicenter Systems Analysis of Human Blood Reveals Immature Neutrophils in Males and During Pregnancy. <i>Journal of Immunology</i> , 2017, 198, 2479-2488.	0.4	66
25	Differential Dynamics of the Maternal Immune System in Healthy Pregnancy and Preeclampsia. <i>Frontiers in Immunology</i> , 2019, 10, 1305.	2.2	65
26	Aversive and Reinforcing Opioid Effects. <i>Anesthesiology</i> , 2012, 117, 22-37.	1.3	60
27	A year-long immune profile of the systemic response in acute stroke survivors. <i>Brain</i> , 2019, 142, 978-991.	3.7	59
28	No evidence for the development of acute tolerance to analgesic, respiratory depressant and sedative opioid effects in humans. <i>Pain</i> , 2009, 142, 17-26.	2.0	53
29	Multiomics Characterization of Preterm Birth in Low- and Middle-Income Countries. <i>JAMA Network Open</i> , 2020, 3, e2029655.	2.8	53
30	Implementing Mass Cytometry at the Bedside to Study the Immunological Basis of Human Diseases: Distinctive Immune Features in Patients with a History of Term or Preterm Birth. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2015, 87, 817-829.	1.1	52
31	Integration of mechanistic immunological knowledge into a machine learning pipeline improves predictions. <i>Nature Machine Intelligence</i> , 2020, 2, 619-628.	8.3	52
32	Sensitivity of gait parameters to the effects of anti-inflammatory and opioid treatments in knee osteoarthritis patients. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1118-1124.	1.2	49
33	Multiomic immune clockworks of pregnancy. <i>Seminars in Immunopathology</i> , 2020, 42, 397-412.	2.8	47
34	When Opioids Cause Pain. <i>Journal of Clinical Oncology</i> , 2007, 25, 4497-4498.	0.8	44
35	The $\frac{1}{4}$ -opioid agonist remifentanyl attenuates hyperalgesia evoked by blunt and punctuated stimuli with different potency: a pharmacological evaluation of the freeze lesion in humans. <i>Pain</i> , 2003, 102, 151-161.	2.0	43
36	The Site of Action of Epidural Fentanyl Infusions in the Presence of Local Anesthetics: A Minimum Local Analgesic Concentration Infusion Study in Nulliparous Labor. <i>Anesthesia and Analgesia</i> , 2003, 97, 1439-1445.	1.1	40

#	ARTICLE	IF	CITATIONS
37	Cytokine evaluation in individuals with low back pain using discographic lavage. Spine Journal, 2010, 10, 212-218.	0.6	40
38	Mapping the Fetomaternal Peripheral Immune System at Term Pregnancy. Journal of Immunology, 2016, 197, 4482-4492.	0.4	34
39	Selective Nociceptor Activation in Volunteers by Infrared Diode Laser. Molecular Pain, 2011, 7, 1744-8069-7-18.	1.0	32
40	Epidural Interferon Gamma-Immunoreactivity. Spine, 2009, 34, 2311-2317.	1.0	30
41	VoPo leverages cellular heterogeneity for predictive modeling of single-cell data. Nature Communications, 2020, 11, 3738.	5.8	30
42	Opioid Pharmacogenomics Using a Twin Study Paradigm: Methods and Procedures for Determining Familial Aggregation and Heritability. Twin Research and Human Genetics, 2010, 13, 412-425.	0.3	29
43	Data-Driven Modeling of Pregnancy-Related Complications. Trends in Molecular Medicine, 2021, 27, 762-776.	3.5	29
44	Orthotopic liver transplantation for carcinoid tumour metastatic to the liver: anesthetic management. Canadian Journal of Anaesthesia, 2000, 47, 334-337.	0.7	26
45	Predicting Acute Pain After Surgery. Annals of Surgery, 2021, 273, 289-298.	2.1	22
46	Patient phenotyping in clinical trials of chronic pain treatments: IMMPACT recommendations. Pain Reports, 2021, 6, e896.	1.4	22
47	Ketamine for Managing Perioperative Pain in Opioid-dependent Patients with Chronic Pain. Anesthesiology, 2010, 113, 514-515.	1.3	22
48	Systematic Immunophenotyping Reveals Sex-Specific Responses After Painful Injury in Mice. Frontiers in Immunology, 2020, 11, 1652.	2.2	21
49	GateFinder: projection-based gating strategy optimization for flow and mass cytometry. Bioinformatics, 2018, 34, 4131-4133.	1.8	20
50	Proteomic signatures predict preeclampsia in individual cohorts but not across cohorts â€“ implications for clinical biomarker studies. Journal of Maternal-Fetal and Neonatal Medicine, 2022, 35, 5621-5628.	0.7	20
51	Deep Immune Profiling of an Arginine-Enriched Nutritional Intervention in Patients Undergoing Surgery. Journal of Immunology, 2017, 199, 2171-2180.	0.4	19
52	Towards personalized medicine in maternal and child health: integrating biologic and social determinants. Pediatric Research, 2021, 89, 252-258.	1.1	19
53	Integrated plasma proteomic and single-cell immune signaling network signatures demarcate mild, moderate, and severe COVID-19. Cell Reports Medicine, 2022, 3, 100680.	3.3	19
54	Preferential inhibition of adaptive immune system dynamics by glucocorticoids in patients after acute surgical trauma. Nature Communications, 2020, 11, 3737.	5.8	18

#	ARTICLE	IF	CITATIONS
55	Measuring the human immune response to surgery: multiomics for the prediction of postoperative outcomes. <i>Current Opinion in Critical Care</i> , 2021, 27, 717-725.	1.6	18
56	Changes in pregnancy-related serum biomarkers early in gestation are associated with later development of preeclampsia. <i>PLoS ONE</i> , 2020, 15, e0230000.	1.1	17
57	Determining heat and mechanical pain threshold in inflamed skin of human subjects. <i>Journal of Visualized Experiments</i> , 2009, , .	0.2	15
58	Identification of a complex between fibronectin and aggrecan G3 domain in synovial fluid of patients with painful meniscal pathology. <i>Clinical Biochemistry</i> , 2010, 43, 808-814.	0.8	15
59	Understanding health disparities. <i>Journal of Perinatology</i> , 2019, 39, 354-358.	0.9	14
60	Single-Cell Analysis of the Neonatal Immune System Across the Gestational Age Continuum. <i>Frontiers in Immunology</i> , 2021, 12, 714090.	2.2	13
61	Risky Business: Meeting the Structural Needs of Transdisciplinary Science. <i>Journal of Pediatrics</i> , 2017, 191, 255-258.	0.9	11
62	Integrated Single-cell and Plasma Proteomic Modeling to Predict Surgical Site Complications: A Prospective Cohort Study. <i>Annals of Surgery</i> , 2022, 275, 582-590.	2.1	11
63	Deleterious and Protective Psychosocial and Stress-Related Factors Predict Risk of Spontaneous Preterm Birth. <i>American Journal of Perinatology</i> , 2021, , .	0.6	10
64	Plasma Biomarkers of Tau and Neurodegeneration During Major Cardiac and Noncardiac Surgery. <i>JAMA Neurology</i> , 2021, 78, 1407.	4.5	9
65	A Peripheral Immune Signature of Labor Induction. <i>Frontiers in Immunology</i> , 2021, 12, 725989.	2.2	9
66	Stimulant use for Self-Management of Pain among Safety-Net Patients with Chronic Non-Cancer Pain. <i>Substance Abuse</i> , 2022, 43, 179-186.	1.1	8
67	Objective Activity Parameters Track Patient-specific Physical Recovery Trajectories After Surgery and Link With Individual Preoperative Immune States. <i>Annals of Surgery</i> , 2023, 277, e503-e512.	2.1	7
68	Preoperative Opioid Utilization Patterns and Postoperative Opioid Utilization: A Retrospective Cohort Study. <i>Anesthesiology</i> , 2021, 135, 1015-1026.	1.3	7
69	Necessity and Risks of Arterial Blood Sampling in Healthy Volunteer Studies. <i>Clinical Pharmacokinetics</i> , 2012, 51, 629-638.	1.6	6
70	Pharmacokinetics, cortisol release, and hemodynamics after intravenous and subcutaneous injection of human corticotropin-releasing factor in humans*. <i>Clinical Pharmacology and Therapeutics</i> , 1998, 64, 499-510.	2.3	5
71	Comment on Koltzenburg et al.: Differential sensitivity of three experimental pain models in detecting the analgesic effects of transdermal fentanyl and buprenorphine. <i>Pain</i> 2006;126:165â€“74. <i>Pain</i> , 2007, 128, 292-294.	2.0	5
72	Understanding how biologic and social determinants affect disparities in preterm birth and outcomes of preterm infants in the NICU. <i>Seminars in Perinatology</i> , 2021, 45, 151408.	1.1	5

#	ARTICLE	IF	CITATIONS
73	Deep Immune Profiling in Trauma and Sepsis. <i>Critical Care Medicine</i> , 2017, 45, 1577-1578.	0.4	4
74	A longitudinal study of the post-stroke immune response and cognitive functioning: the StrokeCog study protocol. <i>BMC Neurology</i> , 2020, 20, 313.	0.8	4
75	Intrathecal Cyclooxygenase Inhibitors in Humans. <i>Anesthesiology</i> , 2010, 112, 1082-1083.	1.3	2
76	A data-driven health index for neonatal morbidities. <i>IScience</i> , 2022, 25, 104143.	1.9	2
77	Human In-Vivo Bioassay for the Tissue-Specific Measurement of Nociceptive and Inflammatory Mediators. <i>Journal of Visualized Experiments</i> , 2008, , .	0.2	1
78	In Reply. <i>Anesthesiology</i> , 2013, 118, 230-231.	1.3	0
79	Editorial Comment. <i>A &amp; A Case Reports</i> , 2014, 3, 145.	0.7	0
80	In Response. <i>Anesthesia and Analgesia</i> , 2019, 129, e112-e113.	1.1	0
81	Maternal stress and its consequences “ biological strain. <i>American Journal of Perinatology</i> , 2022, 0, .	0.6	0
82	Signature for Pain Recovery IN Teens (SPRINT): protocol for a multisite prospective signature study in chronic musculoskeletal pain. <i>BMJ Open</i> , 2022, 12, e061548.	0.8	0