

# Martin S Angst

## List of Publications by Year in descending order

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Version: 2024-02-01

82

papers

6,809

citations

94433

37

h-index

66911

78

g-index

87

all docs

87

docs citations

87

times ranked

8096

citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.2	7
2	Proteomic signatures predict preeclampsia in individual cohorts but not across cohorts â€“ implications for clinical biomarker studies. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2022, 35, 5621-5628.	1.5	20
3	Stimulant use for Self-Management of Pain among Safety-Net Patients with Chronic Non-Cancer Pain. <i>Substance Abuse</i> , 2022, 43, 179-186.	2.3	8
4	Maternal stress and its consequences â€“ biological strain. <i>American Journal of Perinatology</i> , 2022, 0, .	1.4	0
5	A data-driven health index for neonatal morbidities. <i>IScience</i> , 2022, 25, 104143.	4.1	2
6	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.	4.2	11
7	Integrated plasma proteomic and single-cell immune signaling network signatures demarcate mild, moderate, and severe COVID-19. <i>Cell Reports Medicine</i> , 2022, 3, 100680.	6.5	19
8	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.	1.9	0
9	Towards personalized medicine in maternal and child health: integrating biologic and social determinants. <i>Pediatric Research</i> , 2021, 89, 252-258.	2.3	19
10	Predicting Acute Pain After Surgery. <i>Annals of Surgery</i> , 2021, 273, 289-298.	4.2	22
11	Patient phenotyping in clinical trials of chronic pain treatments: IMMPACT recommendations. <i>Pain Reports</i> , 2021, 6, e896.	2.7	22
12	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.	2.5	5
13	Deleterious and Protective Psychosocial and Stress-Related Factors Predict Risk of Spontaneous Preterm Birth. <i>American Journal of Perinatology</i> , 2021, , .	1.4	10
14	Integrated trajectories of the maternal metabolome, proteome, and immunome predict labor onset. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	82
15	Single-Cell Analysis of the Neonatal Immune System Across the Gestational Age Continuum. <i>Frontiers in Immunology</i> , 2021, 12, 714090.	4.8	13
16	Data-Driven Modeling of Pregnancy-Related Complications. <i>Trends in Molecular Medicine</i> , 2021, 27, 762-776.	6.7	29
17	Plasma Biomarkers of Tau and Neurodegeneration During Major Cardiac and Noncardiac Surgery. <i>JAMA Neurology</i> , 2021, 78, 1407.	9.0	9
18	A Peripheral Immune Signature of Labor Induction. <i>Frontiers in Immunology</i> , 2021, 12, 725989.	4.8	9

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19	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.	3.2	18
20	Preoperative Opioid Utilization Patterns and Postoperative Opioid Utilization: A Retrospective Cohort Study. <i>Anesthesiology</i> , 2021, 135, 1015-1026.	2.5	7
21	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.	1.5	112
22	Integration of mechanistic immunological knowledge into a machine learning pipeline improves predictions. <i>Nature Machine Intelligence</i> , 2020, 2, 619-628.	16.0	52
23	VoPo leverages cellular heterogeneity for predictive modeling of single-cell data. <i>Nature Communications</i> , 2020, 11, 3738.	12.8	30
24	Systematic Immunophenotyping Reveals Sex-Specific Responses After Painful Injury in Mice. <i>Frontiers in Immunology</i> , 2020, 11, 1652.	4.8	21
25	Preferential inhibition of adaptive immune system dynamics by glucocorticoids in patients after acute surgical trauma. <i>Nature Communications</i> , 2020, 11, 3737.	12.8	18
26	A longitudinal study of the post-stroke immune response and cognitive functioning: the StrokeCog study protocol. <i>BMC Neurology</i> , 2020, 20, 313.	1.8	4
27	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.	10.1	224
28	Changes in pregnancy-related serum biomarkers early in gestation are associated with later development of preeclampsia. <i>PLoS ONE</i> , 2020, 15, e0230000.	2.5	17
29	Multiomic immune clockworks of pregnancy. <i>Seminars in Immunopathology</i> , 2020, 42, 397-412.	6.1	47
30	Multiomics Characterization of Preterm Birth in Low- and Middle-Income Countries. <i>JAMA Network Open</i> , 2020, 3, e2029655.	5.9	53
31	Multiomics modeling of the immunome, transcriptome, microbiome, proteome and metabolome adaptations during human pregnancy. <i>Bioinformatics</i> , 2019, 35, 95-103.	4.1	162
32	Differential Dynamics of the Maternal Immune System in Healthy Pregnancy and Preeclampsia. <i>Frontiers in Immunology</i> , 2019, 10, 1305.	4.8	65
33	A year-long immune profile of the systemic response in acute stroke survivors. <i>Brain</i> , 2019, 142, 978-991.	7.6	59
34	In Response. <i>Anesthesia and Analgesia</i> , 2019, 129, e112-e113.	2.2	0
35	Understanding health disparities. <i>Journal of Perinatology</i> , 2019, 39, 354-358.	2.0	14
36	A proteomic clock of human pregnancy. <i>American Journal of Obstetrics and Gynecology</i> , 2018, 218, 347.e1-347.e14.	1.3	82

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37	Best Practices for Postoperative Brain Health. <i>Anesthesia and Analgesia</i> , 2018, 127, 1406-1413.	2.2	183
38	GateFinder: projection-based gating strategy optimization for flow and mass cytometry. <i>Bioinformatics</i> , 2018, 34, 4131-4133.	4.1	20
39	Multicenter Systems Analysis of Human Blood Reveals Immature Neutrophils in Males and During Pregnancy. <i>Journal of Immunology</i> , 2017, 198, 2479-2488.	0.8	66
40	Human umbilical cord plasma proteins revitalize hippocampal function in aged mice. <i>Nature</i> , 2017, 544, 488-492.	27.8	317
41	Deep Immune Profiling in Trauma and Sepsis. <i>Critical Care Medicine</i> , 2017, 45, 1577-1578.	0.9	4
42	An immune clock of human pregnancy. <i>Science Immunology</i> , 2017, 2, .	11.9	371
43	Deep Immune Profiling of an Arginine-Enriched Nutritional Intervention in Patients Undergoing Surgery. <i>Journal of Immunology</i> , 2017, 199, 2171-2180.	0.8	19
44	Risky Business: Meeting the Structural Needs of Transdisciplinary Science. <i>Journal of Pediatrics</i> , 2017, 191, 255-258.	1.8	11
45	Patient phenotyping in clinical trials of chronic pain treatments: IMMPACT recommendations. <i>Pain</i> , 2016, 157, 1851-1871.	4.2	270
46	Mapping the Fetomaternal Peripheral Immune System at Term Pregnancy. <i>Journal of Immunology</i> , 2016, 197, 4482-4492.	0.8	34
47	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.	1.5	52
48	Patient-specific Immune States before Surgery Are Strong Correlates of Surgical Recovery. <i>Anesthesiology</i> , 2015, 123, 1241-1255.	2.5	70
49	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.	1.3	77
50	Clinical recovery from surgery correlates with single-cell immune signatures. <i>Science Translational Medicine</i> , 2014, 6, 255ra131.	12.4	285
51	Editorial Comment. <i>A &amp; A Case Reports</i> , 2014, 3, 145.	0.7	0
52	In Reply. <i>Anesthesiology</i> , 2013, 118, 230-231.	2.5	0
53	Necessity and Risks of Arterial Blood Sampling in Healthy Volunteer Studies. <i>Clinical Pharmacokinetics</i> , 2012, 51, 629-638.	3.5	6
54	Sex Differences in Reported Pain Across 11,000 Patients Captured in Electronic Medical Records. <i>Journal of Pain</i> , 2012, 13, 228-234.	1.4	184

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55	Aversive and Reinforcing Opioid Effects. <i>Anesthesiology</i> , 2012, 117, 22-37.	2.5	60
56	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.	2.3	49
57	Pain sensitivity and opioid analgesia: A pharmacogenomic twin study. <i>Pain</i> , 2012, 153, 1397-1409.	4.2	119
58	Selective Nociceptor Activation in Volunteers by Infrared Diode Laser. <i>Molecular Pain</i> , 2011, 7, 1744-8069-7-18.	2.1	32
59	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.	1.9	15
60	Opioid Pharmacogenomics Using a Twin Study Paradigm: Methods and Procedures for Determining Familial Aggregation and Heritability. <i>Twin Research and Human Genetics</i> , 2010, 13, 412-425.	0.6	29
61	Cytokine evaluation in individuals with low back pain using discographic lavage. <i>Spine Journal</i> , 2010, 10, 212-218.	1.3	40
62	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.	1.4	153
63	Intrathecal Cyclooxygenase Inhibitors in Humans. <i>Anesthesiology</i> , 2010, 112, 1082-1083.	2.5	2
64	Ketamine for Managing Perioperative Pain in Opioid-dependent Patients with Chronic Pain. <i>Anesthesiology</i> , 2010, 113, 514-515.	2.5	22
65	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.	4.2	53
66	Epidural Interferon Gamma-Immunoreactivity. <i>Spine</i> , 2009, 34, 2311-2317.	2.0	30
67	Determining heat and mechanical pain threshold in inflamed skin of human subjects. <i>Journal of Visualized Experiments</i> , 2009, , .	0.3	15
68	Opioid-induced Hyperalgesia in Humans. <i>Clinical Journal of Pain</i> , 2008, 24, 479-496.	1.9	511
69	Human In-Vivo Bioassay for the Tissue-Specific Measurement of Nociceptive and Inflammatory Mediators. <i>Journal of Visualized Experiments</i> , 2008, , .	0.3	1
70	When Opioids Cause Pain. <i>Journal of Clinical Oncology</i> , 2007, 25, 4497-4498.	1.6	44
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.	4.2	5
72	Pharmacology of Drugs Formulated with DepoFoam???. <i>Clinical Pharmacokinetics</i> , 2006, 45, 1153-1176.	3.5	135

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73	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.	1.4	367
74	Opioid-induced Hyperalgesia. <i>Anesthesiology</i> , 2006, 104, 570-587.	2.5	1,055
75	Comparative Analgesic and Mental Effects of Increasing Plasma Concentrations of Dexmedetomidine and Alfentanil in Humans. <i>Anesthesiology</i> , 2004, 101, 744-752.	2.5	94
76	Management of Perioperative Pain in Patients Chronically Consuming Opioids. <i>Regional Anesthesia and Pain Medicine</i> , 2004, 29, 576-591.	2.3	149
77	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.	4.2	43
78	Short-term infusion of the $\frac{1}{4}$ -opioid agonist remifentanyl in humans causes hyperalgesia during withdrawal. <i>Pain</i> , 2003, 106, 49-57.	4.2	374
79	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.	2.2	93
80	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.	2.2	40
81	Orthotopic liver transplantation for carcinoid tumour metastatic to the liver: anesthetic management. <i>Canadian Journal of Anaesthesia</i> , 2000, 47, 334-337.	1.6	26
82	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.	4.7	5