

Gustav Schelling

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

10,616
citations

41344

49
h-index

30922

102
g-index

114
all docs

114
docs citations

114
times ranked

8077
citing authors

#	ARTICLE	IF	CITATIONS
1	Health-related quality of life and posttraumatic stress disorder in survivors of the acute respiratory distress syndrome. <i>Critical Care Medicine</i> , 1998, 26, 651-659.	0.9	1,106
2	Stress doses of hydrocortisone reverse hyperdynamic septic shock. <i>Critical Care Medicine</i> , 1999, 27, 723-732.	0.9	941
3	Health-related quality of life and post-traumatic stress disorder in patients after cardiac surgery and intensive care treatment. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2000, 120, 505-512.	0.8	700
4	Glucocorticoids and the regulation of memory in health and disease. <i>Frontiers in Neuroendocrinology</i> , 2009, 30, 358-370.	5.2	426
5	Glucocorticoids reduce phobic fear in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5585-5590.	7.1	387
6	The effect of stress doses of hydrocortisone during septic shock on posttraumatic stress disorder in survivors. <i>Biological Psychiatry</i> , 2001, 50, 978-985.	1.3	348
7	Stress doses of hydrocortisone, traumatic memories, and symptoms of posttraumatic stress disorder in patients after cardiac surgery: a randomized study. <i>Biological Psychiatry</i> , 2004, 55, 627-633.	1.3	321
8	Low-Dose Cortisol for Symptoms of Posttraumatic Stress Disorder. <i>American Journal of Psychiatry</i> , 2004, 161, 1488-1490.	7.2	310
9	Posttraumatic Stress Disorder and Health-Related Quality of Life in Long-Term Survivors of Acute Respiratory Distress Syndrome. <i>American Journal of Psychiatry</i> , 2004, 161, 45-52.	7.2	293
10	Endocannabinoids in the rat basolateral amygdala enhance memory consolidation and enable glucocorticoid modulation of memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4888-4893.	7.1	271
11	The relationship between cognitive performance and employment and health status in long-term survivors of the acute respiratory distress syndrome: results of an exploratory study. <i>General Hospital Psychiatry</i> , 2001, 23, 90-96.	2.4	260
12	White and gray matter abnormalities in the brain of patients with fibromyalgia: A diffusion tensor and volumetric imaging study. <i>Arthritis and Rheumatism</i> , 2008, 58, 3960-3969.	6.7	239
13	Exposure to high stress in the intensive care unit may have negative effects on health-related quality-of-life outcomes after cardiac surgery. <i>Critical Care Medicine</i> , 2003, 31, 1971-1980.	0.9	223
14	Stress doses of hydrocortisone reduce chronic stress symptoms and improve health-related quality of life in high-risk patients after cardiac surgery: A randomized study. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2006, 131, 277-282.e1.	0.8	191
15	The effect of stress doses of hydrocortisone during septic shock on posttraumatic stress disorder and health-related quality of life in survivors. <i>Critical Care Medicine</i> , 1999, 27, 2678-2683.	0.9	186
16	Evaluation of serum extracellular vesicle isolation methods for profiling miRNAs by next-generation sequencing. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1481321.	12.2	177
17	Plasma Concentrations of Endocannabinoids and Related Primary Fatty Acid Amides in Patients with Post-Traumatic Stress Disorder. <i>PLoS ONE</i> , 2013, 8, e62741.	2.5	162
18	Efficacy of Hydrocortisone in Preventing Posttraumatic Stress Disorder Following Critical Illness and Major Surgery. <i>Annals of the New York Academy of Sciences</i> , 2006, 1071, 46-53.	3.8	154

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19	Effects of dietary salt levels on monocytic cells and immune responses in healthy human subjects: a longitudinal study. <i>Translational Research</i> , 2015, 166, 103-110.	5.0	142
20	Real-time Monitoring of Propofol in Expired Air in Humans Undergoing Total Intravenous Anesthesia. <i>Anesthesiology</i> , 2007, 106, 665-674.	2.5	129
21	Psychiatric and psychosocial outcome of cardiac surgery with cardiopulmonary bypass: a prospective 12-month follow-up study. <i>General Hospital Psychiatry</i> , 2005, 27, 18-28.	2.4	123
22	A systemically administered β -adrenoceptor antagonist blocks corticosterone-induced impairment of contextual memory retrieval in rats. <i>Neurobiology of Learning and Memory</i> , 2004, 81, 150-154.	1.9	122
23	Glucocorticoids interact with the hippocampal endocannabinoid system in impairing retrieval of contextual fear memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3504-3509.	7.1	117
24	Motion Sickness, Stress and the Endocannabinoid System. <i>PLoS ONE</i> , 2010, 5, e10752.	2.5	117
25	Endogenous cannabinoid release within prefrontal-limbic pathways affects memory consolidation of emotional training. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18333-18338.	7.1	115
26	Corticotropin-Releasing Factor in the Basolateral Amygdala Enhances Memory Consolidation via an Interaction with the β -Adrenoceptor-cAMP Pathway: Dependence on Glucocorticoid Receptor Activation. <i>Journal of Neuroscience</i> , 2008, 28, 6642-6651.	3.6	109
27	Can Posttraumatic Stress Disorder Be Prevented with Glucocorticoids?. <i>Annals of the New York Academy of Sciences</i> , 2004, 1032, 158-166.	3.8	108
28	Relationship of a common polymorphism of the glucocorticoid receptor gene to traumatic memories and posttraumatic stress disorder in patients after intensive care therapy. <i>Critical Care Medicine</i> , 2011, 39, 643-650.	0.9	103
29	Stress doses of hydrocortisone in septic shock: beneficial effects on opsonization-dependent neutrophil functions. <i>Intensive Care Medicine</i> , 2008, 34, 344-349.	8.2	97
30	Toward reliable biomarker signatures in the age of liquid biopsies - how to standardize the small RNA-Seq workflow. <i>Nucleic Acids Research</i> , 2016, 44, 5995-6018.	14.5	97
31	Endocannabinoid concentrations in hair are associated with PTSD symptom severity. <i>Psychoneuroendocrinology</i> , 2016, 67, 198-206.	2.7	90
32	Stress doses of hydrocortisone in high-risk patients undergoing cardiac surgery: Effects on interleukin-6 to interleukin-10 ratio and early outcome*. <i>Critical Care Medicine</i> , 2009, 37, 1685-1690.	0.9	86
33	Cellular and extracellular miRNAs are blood compartment-specific diagnostic targets in sepsis. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 2403-2411.	3.6	84
34	Psychiatric and Psychosocial Outcome of Orthotopic Liver Transplantation. <i>Psychotherapy and Psychosomatics</i> , 2002, 71, 285-297.	8.8	82
35	Effects of low-dose intranasal (S)-ketamine in patients with neuropathic pain. <i>European Journal of Pain</i> , 2010, 14, 387-394.	2.8	81
36	Endocannabinoid Signaling within the Basolateral Amygdala Integrates Multiple Stress Hormone Effects on Memory Consolidation. <i>Neuropsychopharmacology</i> , 2015, 40, 1485-1494.	5.4	73

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37	Substantially altered expression pattern of cannabinoid receptor 2 and activated endocannabinoid system in patients with severe heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 1187-1193.	1.9	72
38	Towards human exploration of space: The THESEUS review series on immunology research priorities. <i>Npj Microgravity</i> , 2016, 2, 16040.	3.7	72
39	Anandamide and neutrophil function in patients with fibromyalgia. <i>Psychoneuroendocrinology</i> , 2008, 33, 676-685.	2.7	65
40	Release of anandamide from blood cells. <i>Clinical Chemistry and Laboratory Medicine</i> , 2006, 44, 488-91.	2.3	63
41	Stress Related Shift Toward Inflammaging in Cosmonauts After Long-Duration Space Flight. <i>Frontiers in Physiology</i> , 2019, 10, 85.	2.8	63
42	Post-traumatic stress disorder in somatic disease: lessons from critically ill patients. <i>Progress in Brain Research</i> , 2007, 167, 229-237.	1.4	61
43	Novelty-Induced Emotional Arousal Modulates Cannabinoid Effects on Recognition Memory and Adrenocortical Activity. <i>Neuropsychopharmacology</i> , 2013, 38, 1276-1286.	5.4	61
44	Lymphocyte Subsets and the Role of Th1/Th2 Balance in Stressed Chronic Pain Patients. <i>NeuroImmunoModulation</i> , 2007, 14, 272-280.	1.8	60
45	Propofol Enhances Memory Formation via an Interaction with the Endocannabinoid System. <i>Anesthesiology</i> , 2011, 114, 1380-1388.	2.5	59
46	The endocannabinoid system and Post Traumatic Stress Disorder (PTSD): From preclinical findings to innovative therapeutic approaches in clinical settings. <i>Pharmacological Research</i> , 2016, 111, 668-678.	7.1	57
47	Effects of Stress Hormones on Traumatic Memory Formation and the Development of Posttraumatic Stress Disorder in Critically Ill Patients. <i>Neurobiology of Learning and Memory</i> , 2002, 78, 596-609.	1.9	54
48	Traumatic memories, post-traumatic stress disorder and serum cortisol levels in long-term survivors of the acute respiratory distress syndrome. <i>Brain Research</i> , 2009, 1293, 114-120.	2.2	54
49	Effects of General Anesthesia on Anandamide Blood Levels in Humans. <i>Anesthesiology</i> , 2006, 104, 273-277.	2.5	52
50	COVID-19 Impairs Immune Response to <i>Candida albicans</i> . <i>Frontiers in Immunology</i> , 2021, 12, 640644.	4.8	52
51	Diagnostic Value of Concentration Profiles of Glucocorticosteroids and Endocannabinoids in Hair. <i>Therapeutic Drug Monitoring</i> , 2013, 35, 600-607.	2.0	48
52	Effects of parabolic flight and spaceflight on the endocannabinoid system in humans. <i>Reviews in the Neurosciences</i> , 2012, 23, 673-80.	2.9	47
53	Effects of ketamine, dexmedetomidine and propofol anesthesia on emotional memory consolidation in rats: Consequences for the development of post-traumatic stress disorder. <i>Behavioural Brain Research</i> , 2017, 329, 215-220.	2.2	45
54	The role of glucocorticoids, catecholamines and endocannabinoids in the development of traumatic memories and posttraumatic stress symptoms in survivors of critical illness. <i>Neurobiology of Learning and Memory</i> , 2014, 112, 68-74.	1.9	43

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55	Pitfalls in measuring the endocannabinoid 2-arachidonoyl glycerol in biological samples. <i>Clinical Chemistry and Laboratory Medicine</i> , 2007, 45, 1023-5.	2.3	42
56	Complex Interaction of Sensory and Motor Signs and Symptoms in Chronic CRPS. <i>PLoS ONE</i> , 2011, 6, e18775.	2.5	40
57	The Major Brain Endocannabinoid 2-AG Controls Neuropathic Pain and Mechanical Hyperalgesia in Patients with Neuromyelitis Optica. <i>PLoS ONE</i> , 2013, 8, e71500.	2.5	39
58	Application of a Fibrinogen-Thrombin-Collagen-Based Hemostyptic Agent in Experimental Injuries of Liver and Spleen. <i>Journal of Trauma</i> , 1988, 28, 472-475.	2.3	38
59	Reductions in circulating endocannabinoid 2-arachidonoylglycerol levels in healthy human subjects exposed to chronic stressors. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2016, 67, 92-97.	4.8	38
60	Treatment of Depression With Methylphenidate in Patients Difficult to Wean From Mechanical Ventilation in the Intensive Care Unit. <i>Journal of Clinical Psychiatry</i> , 2000, 61, 750-755.	2.2	38
61	Patient Controlled Analgesia for Shock Wave Lithotripsy: The Effect of Self-Administered Alfentanil on Pain Intensity and Drug Requirement. <i>Journal of Urology</i> , 1996, 155, 43-47.	0.4	35
62	Formation of the N-methylpyridinium ether derivative of propofol to improve sensitivity, specificity and reproducibility of its detection in blood by liquid chromatography-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 4055-4058.	2.3	34
63	Time course of expiratory propofol after bolus injection as measured by ion molecule reaction mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 555-561.	3.7	33
64	Immune sensitization during 1 year in the Antarctic high altitude Concordia Environment. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 64-77.	5.7	33
65	Glucocorticoid-endocannabinoid interaction in cardiac surgical patients: relationship to early cognitive dysfunction and late depression. <i>Reviews in the Neurosciences</i> , 2012, 23, 681-90.	2.9	30
66	Propofol Breath Monitoring as a Potential Tool to Improve the Prediction of Intraoperative Plasma Concentrations. <i>Clinical Pharmacokinetics</i> , 2016, 55, 849-859.	3.5	30
67	Propofol and Sevoflurane Differentially Impact MicroRNAs in Circulating Extracellular Vesicles during Colorectal Cancer Resection. <i>Anesthesiology</i> , 2020, 132, 107-120.	2.5	29
68	Comparison of Systemic and Renal Effects of Dopexamine and Dopamine in Norepinephrine-Treated Septic Shock. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2006, 20, 173-178.	1.3	28
69	Quantification of anandamide and 2-arachidonoylglycerol plasma levels to examine potential influences of tetrahydrocannabinol application on the endocannabinoid system in humans. <i>Drug Testing and Analysis</i> , 2014, 6, 17-23.	2.6	28
70	Preinterventional hydrocortisone sustains the endothelial glycocalyx in cardiac surgery. <i>Clinical Hemorheology and Microcirculation</i> , 2019, 71, 59-70.	1.7	28
71	The Effectiveness of a Fibrinogen-Thrombin- Collagen-based Hemostatic Agent in an Experimental Arterial Bleeding Model. <i>Annals of Surgery</i> , 1987, 205, 432-435.	4.2	25
72	Psychoneuroendocrine stress response may impair neutrophil function in complex regional pain syndrome. <i>Clinical Immunology</i> , 2007, 125, 103-111.	3.2	25

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73	Extracellular Vesicle Associated miRNAs Regulate Signaling Pathways Involved in COVID-19 Pneumonia and the Progression to Severe Acute Respiratory Corona Virus-2 Syndrome. <i>Frontiers in Immunology</i> , 2021, 12, 784028.	4.8	25
74	Diagnostic potential of circulating cell-free microRNAs for community-acquired pneumonia and pneumonia-related sepsis. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 12054-12064.	3.6	24
75	Early Adaption to the Antarctic Environment at Dome C: Consequences on Stress-Sensitive Innate Immune Functions. <i>High Altitude Medicine and Biology</i> , 2014, 15, 341-348.	0.9	23
76	Effect of an Acute Consumption of a Moderate Amount of Ethanol on Plasma Endocannabinoid Levels in Humans. <i>Alcohol and Alcoholism</i> , 2012, 47, 226-232.	1.6	21
77	Effect of stress doses of hydrocortisone on S-100B vs. interleukin-8 and polymorphonuclear elastase levels in human septic shock. <i>Clinical Chemistry and Laboratory Medicine</i> , 2005, 43, 259-68.	2.3	20
78	Transcriptomic profiling of cell-free and vesicular microRNAs from matched arterial and venous sera. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1670935.	12.2	20
79	Detection of Atherosclerosis by Small RNA-Sequencing Analysis of Extracellular Vesicle Enriched Serum Samples. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 729061.	3.7	20
80	Patient controlled analgesia for extracorporeal shock wave lithotripsy of gallstones. <i>Pain</i> , 1992, 48, 355-359.	4.2	19
81	Modulations of Neuroendocrine Stress Responses During Confinement in Antarctica and the Role of Hypobaric Hypoxia. <i>Frontiers in Physiology</i> , 2018, 9, 1647.	2.8	17
82	Surviving the ICU Does Not Mean That the War Is Over. <i>Chest</i> , 2013, 144, 1-3.	0.8	15
83	The CYCLOCALYX study: Ovulatory cycle affects circulating compartments of the endothelial glycocalyx in blood. <i>American Journal of Reproductive Immunology</i> , 2018, 79, e12767.	1.2	15
84	Associating Emergency Medical Services personnel's workload, trauma exposure, and health with the cortisol, endocannabinoid, and N-acylethanolamine concentrations in their hair. <i>Scientific Reports</i> , 2020, 10, 22403.	3.3	14
85	Adenosine A2A receptor modulates the oxidative stress response of primed polymorphonuclear leukocytes after parabolic flight. <i>Human Immunology</i> , 2011, 72, 547-552.	2.4	13
86	Breath isoprene concentrations in persons undergoing general anesthesia and in healthy volunteers. <i>Journal of Breath Research</i> , 2012, 6, 046004.	3.0	13
87	Gram-negative and -positive bacteria differentiation in blood culture samples by headspace volatile compound analysis. <i>Journal of Biological Research</i> , 2016, 23, 3.	2.1	13
88	Changes of brain DTI in healthy human subjects after 520 days isolation and confinement on a simulated mission to Mars. <i>Life Sciences in Space Research</i> , 2020, 24, 83-90.	2.3	12
89	Circulating inflammatory markers, cell-free mitochondrial DNA, cortisol, endocannabinoids, and N-acylethanolamines in female depressed outpatients. <i>World Journal of Biological Psychiatry</i> , 2023, 24, 58-69.	2.6	11
90	Pain Control during Extracorporeal Shock Wave Lithotripsy of Gallstones by Titrated Alfentanil Infusion. <i>Anesthesiology</i> , 1989, 70, 1022-1022.	2.5	10

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91	A genotype-specific, randomized controlled behavioral intervention to improve the neuroemotional outcome of cardiac surgery: study protocol for a randomized controlled trial. <i>Trials</i> , 2013, 14, 89.	1.6	10
92	Glucocorticoid receptor overexpression slightly shifts microRNA expression patterns in triple-negative breast cancer. <i>International Journal of Oncology</i> , 2018, 52, 1765-1776.	3.3	10
93	Determination of breath isoprene allows the identification of the expiratory fraction of the propofol breath signal during real-time propofol breath monitoring. <i>Journal of Clinical Monitoring and Computing</i> , 2013, 27, 509-516.	1.6	9
94	Hair-based biomarkers in women with major depressive disorder: Glucocorticoids, endocannabinoids, N-acylethanolamines, and testosterone. <i>Comprehensive Psychoneuroendocrinology</i> , 2021, 7, 100068.	1.7	9
95	Patient Controlled Analgesia for Shock Wave Lithotripsy. <i>Journal of Urology</i> , 1996, , 43-47.	0.4	9
96	Exhaled breath volatile organic and inorganic compound composition in end-stage renal disease. <i>Clinical Nephrology</i> , 2016, 86, 132-140.	0.7	9
97	Decrease in adhesion molecules on polymorphonuclear leukocytes of patients with fibromyalgia. <i>Rheumatology International</i> , 2009, 29, 1109-1111.	3.0	8
98	Ketamine anesthesia enhances fear memory consolidation via noradrenergic activation in the basolateral amygdala. <i>Neurobiology of Learning and Memory</i> , 2021, 178, 107362.	1.9	7
99	Progranulin signaling in sepsis, community-acquired bacterial pneumonia and COVID-19: a comparative, observational study. <i>Intensive Care Medicine Experimental</i> , 2021, 9, 43.	1.9	7
100	Oxidative burst and Dectin-1-triggered phagocytosis affected by norepinephrine and endocannabinoids: implications for fungal clearance under stress. <i>International Immunology</i> , 2018, 30, 79-89.	4.0	5
101	Molecular RNA Correlates of the SOFA Score in Patients with Sepsis. <i>Diagnostics</i> , 2021, 11, 1649.	2.6	5
102	Exhaled Breath and Oxygenator Sweep Gas Propionaldehyde in Acute Respiratory Distress Syndrome. <i>Molecules</i> , 2021, 26, 145.	3.8	4
103	Endocannabinoids, "New-Old" Mediators of Stress Homeostasis. , 2020, , 181-204.		4
104	Indications and practical use of replacement dose of corticosteroids in critical illness. <i>Current Opinion in Internal Medicine</i> , 2007, 6, 461-466.	1.5	3
105	Breath Gas Analysis. , 2012, , 289-297.		3
106	Single nucleotide polymorphism creating a variable upstream open reading frame regulates glucocorticoid receptor expression. <i>Gene</i> , 2015, 563, 24-28.	2.2	2
107	Exploratory RNA-seq analysis in healthy subjects reveals vulnerability to viral infections during a 12-month period of isolation and confinement. <i>Brain, Behavior, & Immunity - Health</i> , 2020, 9, 100145.	2.5	2
108	Replacement of albumin by hydroxyethylstarch could increase the risk for acute kidney injury in patients with severe ARDS. <i>Intensive Care Medicine</i> , 2011, 37, 719-720.	8.2	1

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109	Breath Gas Analysis. , 2020, , 451-461.		1
110	Endocannabinoids, â€œNew-Oldâ€•Mediators of Stress Homeostasis. , 2012, , 107-126.		0