Uwe Koedel

List of Publications by Year
in descending order

87 papers	5,881 citations	76326 40 h-index	74163 75 g-index
88 all docs	88 docs citations	88 times ranked	5431 citing authors

#	Article	IF	Citations
1	TLR13 Recognizes Bacterial 23 <i>S</i> rRNA Devoid of Erythromycin Resistanceâ€“Forming Modification. Science, 2012, 337, 1111-1115.	12.6	361
2	Pathogenesis and pathophysiology of pneumococcal meningitis. Lancet Infectious Diseases, The, 2002, 2, 721-736.	9.1	333
3	Pathophysiology of Bacterial Meningitis: Mechanism(s) of Neuronal Injury. Journal of Infectious Diseases, 2002, 186, S225-S233.	4.0	290
4	Toll-Like Receptor 2 Participates in Mediation of Immune Response in Experimental Pneumococcal Meningitis. Journal of Immunology, 2003, 170, 438-444.	0.8	208
5	Lyme neuroborreliosisâ€"epidemiology, diagnosis and management. Nature Reviews Neurology, 2015, 11, 446-456.	10.1	207
6	Community-acquired bacterial meningitis. Nature Reviews Disease Primers, 2016, 2, 16074.	30.5	193
7	The NLRP3 Inflammasome Contributes to Brain Injury in Pneumococcal Meningitis and Is Activated through ATP-Dependent Lysosomal Cathepsin B Release. Journal of Immunology, 2011, 187, 5440-5451.	0.8	192
8	Matrix metalloproteinases contribute to the blood?brain barrier disruption during bacterial meningitis. Annals of Neurology, 1998, 44, 592-600.	5.3	185
9	The Pathogenesis of Lyme Neuroborreliosis: From Infection to Inflammation. Molecular Medicine, 2008, 14, 205-212.	4.4	176
10	Apoptosis Is Essential for Neutrophil Functional Shutdown and Determines Tissue Damage in Experimental Pneumococcal Meningitis. PLoS Pathogens, 2009, 5, e1000461.	4.7	161
11	Identification of a T cell chemotactic factor in the cerebrospinal fluid of HIV-1-infected individuals as interferon-Î³ inducible protein 10. Journal of Neuroimmunology, 1999, 93, 172-181.	2.3	155
12	Global Cerebral Ischemia in the Rat: Online Monitoring of Oxygen Free Radical Production Using Chemiluminescence in vivo. Journal of Cerebral Blood Flow and Metabolism, 1995, 15, 929-940.	4.3	150
13	Experimental pneumococcal meningitis: Cerebrovascular alterations, brain edema, and meningeal inflammation are linked to the production of nitric oxide. Annals of Neurology, 1995, 37, 313-323.	5.3	148
14	MyD88 is required for mounting a robust host immune response to Streptococcus pneumoniae in the CNS. Brain, 2004, 127, 1437-1445.	7.6	137
15	Innate Immunity to Pneumococcal Infection of the Central Nervous System Depends on Tollâ€Like Receptor (TLR) 2 and TLR4. Journal of Infectious Diseases, 2008, 198, 1028-1036.	4.0	119
16	The chemokine CXCL13 is a key regulator of B cell recruitment to the cerebrospinal fluid in acute Lyme neuroborreliosis. Journal of Neuroinflammation, 2009, 6, 42.	7.2	118
17	Lack of IL-6 augments inflammatory response but decreases vascular permeability in bacterial meningitis. Brain, 2003, 126, 1873-1882.	7.6	112
18	New understandings on the pathophysiology of bacterial meningitis. Current Opinion in Infectious Diseases, 2010, 23, 217-223.	3.1	110

#	Article	IF	Citations
19	Complement component 5 contributes to poor disease outcome in humans and mice with pneumococcal meningitis. Journal of Clinical Investigation, 2011, 121, 3943-3953.	8.2	98
20	Oxidative stress in pneumococcal meningitis: A future target for adjunctive therapy?. Progress in Neurobiology, 2006, 80, 269-280.	5.7	96
21	Presence of Matrix Metalloproteinaseâ€9 Activity in the Cerebrospinal Fluid of Human Immunodeficiency Virusâ€”Infected Patients. Journal of Infectious Diseases, 1998, 178, 854-857.	4.0	92
22	Differential expression of matrix metalloproteinases in bacterial meningitis. Brain, 1999, 122, 1579-1587.	7.6	91
23	Differential Expression of Nitric Oxide Synthases in Bacterial Meningitis: Role of the Inducible Isoform for Bloodâ€Brain Barrier Breakdown. Journal of Infectious Diseases, 2001, 183, 1749-1759.	4.0	89
24	Community-acquired bacterial meningitis. Lancet, The, 2021, 398, 1171-1183.	13.7	89
25	Oxidative Stress in Bacterial Meningitis. Brain Pathology, 1999, 9, 57-67.	4.1	83
26	Arterial cerebrovascular complications in 94 adults with acute bacterial meningitis. Critical Care, 2011, 15, R281.	5.8	83
27	Complement C1q and C3 Are Critical for the Innate Immune Response to <i>Streptococcus pneumoniae</i> in the Central Nervous System. Journal of Immunology, 2007, 178, 1861-1869.	0.8	78
28	Role of Caspase-1 in experimental pneumococcal meningitis: Evidence from pharmacologic Caspase inhibition and Caspase-1-deficient mice. Annals of Neurology, 2002, 51, 319-329.	5.3	76
29	Borrelia garinii Induces CXCL13 Production in Human Monocytes through Toll-Like Receptor 2. Infection and Immunity, 2007, 75, 4351-4356.	2.2	76
30	Meningitis-Associated Central Nervous System Complications are Mediated by the Activation of Poly(ADP-ribose) Polymerase. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 39-49.	4.3	75
31	Meningitis-associated hearing loss: Protection by adjunctive antioxidant therapy. Annals of Neurology, 2003, 54, 451-458.	5.3	75
32	Protective effect of the antioxidant N-acetyl-l-cysteine in pneumococcal meningitis in the rat. Neuroscience Letters, 1997, 225, 33-36.	2.1	69
33	Acute Brain Injury Triggers MyD88-Dependent, TLR2/4-Independent Inflammatory Responses. American Journal of Pathology, 2007, 171, 200-213.	3.8	63
34	Lack of Endothelial Nitric Oxide Synthase Aggravates Murine Pneumococcal Meningitis. Journal of Neuropathology and Experimental Neurology, 2001, 60, 1041-1050.	1.7	54
35	Patterns of protein expression in infectious meningitis: A cerebrospinal fluid protein array analysis. Journal of Neuroimmunology, 2005, 164, 134-139.	2.3	54
36	Protein expression pattern in experimental pneumococcal meningitis. Microbes and Infection, 2006, 8, 974-983.	1.9	54

#	Article	IF	Citations
37	Impact of Glutamine Transporters on Pneumococcal Fitness under Infection-Related Conditions. Infection and Immunity, 2011, 79, 44-58.	2.2	52
38	Dramatic reduction of mortality in pneumococcal meningitis. Critical Care, 2016, 20, 312.	5.8	46
39	Morphological Correlates of Acute and Permanent Hearing Loss During Experimental Pneumococcal Meningitis. Brain Pathology, 2003, 13, 123-132.	4.1	44
40	Lyme neuroborreliosis. Current Opinion in Infectious Diseases, 2017, 30, 101-107.	3.1	44
41	MODELS OF EXPERIMENTAL BACTERIAL MENINGITIS. Infectious Disease Clinics of North America, 1999, 13, 549-577.	5.1	42
42	TGFÂ receptor II gene deletion in leucocytes prevents cerebral vasculitis in bacterial meningitis. Brain, 2006, 129, 2404-2415.	7.6	41
43	Increased Intrathecal Release of Soluble Fractalkine in HIV-Infected Patients. AIDS Research and Human Retroviruses, 2003, 19, 111-116.	1.1	40
44	Toll-Like Receptors in Bacterial Meningitis. Current Topics in Microbiology and Immunology, 2009, 336, 15-40.	1.1	35
45	High mobility group box 1 prolongs inflammation and worsens disease in pneumococcal meningitis. Brain, 2013, 136, 1746-1759.	7.6	34
46	Myeloid-Related Protein 14 Promotes Inflammation and Injury in Meningitis. Journal of Infectious Diseases, 2015, 212, 247-257.	4.0	30
47	Urokinaseâ€Type Plasminogen Activator Receptor Regulates Leukocyte Recruitment during Experimental Pneumococcal Meningitis. Journal of Infectious Diseases, 2005, 191, 776-782.	4.0	29
48	Inhibition of matrix metalloproteinases attenuates brain damage in experimental meningococcal meningitis. BMC Infectious Diseases, 2014, 14, 726.	2.9	29
49	Increased Endothelin Levels in Cerebrospinal Fluid Samples from Adults with Bacterial Meningitis. Clinical Infectious Diseases, 1997, 25, 329-330.	5.8	28
50	CXCL16 Contributes to Neutrophil Recruitment to Cerebrospinal Fluid in Pneumococcal Meningitis. Journal of Infectious Diseases, 2010, 202, 1389-1396.	4.0	27
51	CXCL11 is involved in leucocyte recruitment to the central nervous system in neuroborreliosis. Journal of Neurology, 2005, 252, 820-823.	3.6	26
52	Reduced spiral ganglion neuronal loss by adjunctive neurotrophin-3 in experimental pneumococcal meningitis. Journal of Neuroinflammation, 2011, 8, 7.	7.2	26
53	Leukocyte Attraction by CCL20 and Its Receptor CCR6 in Humans and Mice with Pneumococcal Meningitis. PLoS ONE, 2014, 9, e93057.	2.5	26
54	In vivo proteomics identifies the competence regulon and AliB oligopeptide transporter as pathogenic factors in pneumococcal meningitis. PLoS Pathogens, 2019, 15, e1007987.	4.7	25

#	Article	IF	Citations
55	Mannitol, but not allopurinol, modulates changes in cerebral blood flow, intracranial pressure, and brain water content during pneumococcal meningitis in the rat. Critical Care Medicine, 1996, 24, 1874-1880.	0.9	25
56	Experimental meningitis in the rat: protection by uric acid at human physiological blood concentrations. European Journal of Pharmacology, 2001, 425, 149-152.	3.5	24
57	Bacterial Meningitis: The Role of Transforming Growth Factor-Beta in Innate Immunity and Secondary Brain Damage. Neurodegenerative Diseases, 2007, 4, 43-50.	1.4	23
58	MyD88â€Dependent Immune Response Contributes to Hearing Loss in Experimental Pneumococcal Meningitis. Journal of Infectious Diseases, 2007, 195, 1189-1193.	4.0	23
59	APRIL and BAFF: novel biomarkers for central nervous system lymphoma. Journal of Hematology and Oncology, 2019, 12, 102.	17.0	22
60	7-Nitroindazole Inhibits Pial Arteriolar Vasodilation in a Rat Model of Pneumococcal Meningitis. Journal of Cerebral Blood Flow and Metabolism, 1997, 17, 985-991.	4.3	21
61	Experimental bacterial meningitis in rats: Demonstration of hydrocephalus and meningeal enhancement by magnetic resonance imaging. Neurological Research, 2002, 24, 307-310.	1.3	21
62	Protective Effect of a 21-Aminosteroid during Experimental Pneumococcal Meningitis. Journal of Infectious Diseases, 1995, 172, 113-118.	4.0	20
63	Inflammatory response during bacterial meningitis is unchanged in Fas- and Fas ligand-deficient mice. Journal of Neuroimmunology, 2004, 152, 78-82.	2.3	20
64	Adjuvant glycerol is not beneficial in experimental pneumococcal meningitis. BMC Infectious Diseases, 2010, 10, 84.	2.9	20
65	Bacterial meningitis: current therapy and possible future treatment options. Expert Review of Anti-Infective Therapy, 2011, 9, 1053-1065.	4.4	20
66	Inhibition of DAMP signaling as an effective adjunctive treatment strategy in pneumococcal meningitis. Journal of Neuroinflammation, 2017, 14, 214.	7.2	20
67	Methylprednisolone attenuates inflammation, increase of brain water content and intracranial pressure, but does not influence cerebral blood flow changes in experimental pneumococcal meningitis. Brain Research, 1994, 644, 25-31.	2.2	19
68	Involvement of substance P in pial arteriolar vasodilatation during pneumococcal meningitis in the rat. NeuroReport, 1995, 6, 1301-1305.	1.2	18
69	Myeloid Src kinases regulate phagocytosis and oxidative burst in pneumococcal meningitis by activating NADPH oxidase. Journal of Leukocyte Biology, 2008, 84, 1141-1150.	3.3	18
70	Endothelin B Receptorâ€"Mediated Increase of Cerebral Blood Flow in Experimental Pneumococcal Meningitis. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 67-74.	4.3	17
71	Protective role of NF-Î°B1 (p50) in experimental pneumococcal meningitis. European Journal of Pharmacology, 2004, 498, 315-318.	3.5	17
72	Adhesion of Borrelia garinii to neuronal cells is mediated by the interaction of OspA with proteoglycans. Journal of Neuroimmunology, 2006, 175, 5-11.	2.3	17

#	Article	IF	Citations
73	Plasminogen activator inhibitor-1 influences cerebrovascular complications and death in pneumococcal meningitis. Acta Neuropathologica, 2014, 127, 553-564.	7.7	17
74	Modulation of Brain Injury as a Target of Adjunctive Therapy in Bacterial Meningitis. Current Infectious Disease Reports, 2010, 12, 266-273.	3.0	16
75	Simvastatin attenuates leukocyte recruitment in experimental bacterial meningitis. International Immunopharmacology, 2009, 9, 371-374.	3.8	13
76	Development of Adjunctive Therapies for Bacterial Meningitis and Lessons From Knockout Mice. Neurocritical Care, 2005, 2, 313-324.	2.4	12
77	Role of purinergic signaling in experimental pneumococcal meningitis. Scientific Reports, 2017, 7, 44625.	3.3	12
78	Novel and preclinical treatment strategies in pneumococcal meningitis. Current Opinion in Infectious Diseases, 2018, 31, 85-92.	3.1	12
79	Reduction of intracranial pressure by nimodipine in experimental pneumococcal meningitis. Critical Care Medicine, 2000, 28, 2552-2556.	0.9	10
80	Differential regulation of bloodâ€“brain barrier permeability in brain trauma and pneumococcal meningitisâ€"role of Src kinases. Experimental Neurology, 2007, 203, 158-167.	4.1	10
81	Acute meningitis. Current Infectious Disease Reports, 1999, 1, 153-159.	3.0	9
82	Adjunctive <i>N</i> -Acetyl- <scp>l</scp> -Cysteine in Treatment of Murine Pneumococcal Meningitis. Antimicrobial Agents and Chemotherapy, 2013, 57, 4825-4830.	3.2	9
83	Mast Cells Are Activated by Streptococcus pneumoniae In Vitro but Dispensable for the Host Defense Against Pneumococcal Central Nervous System Infection In Vivo. Frontiers in Immunology, 2018, 9, 550.	4.8	9
84	Virulence Traits of a Serogroup C Meningococcus and Isogenic <i>cssA</i> Mutant, Defective in Surface-Exposed Sialic Acid, in a Murine Model of Meningitis. Infection and Immunity, 2019, 87, .	2.2	7
85	Disease models of acute bacterial meningitis. Drug Discovery Today: Disease Models, 2006, 3, 105-112.	1.2	4
86	Combined therapy with ceftriaxone and doxycycline does not improve the outcome of meningococcal meningitis in mice compared to ceftriaxone monotherapy. BMC Infectious Diseases, 2020, 20, 505.	2.9	1
87	Immunopathogenesis of Bacterial Meningitis. , 2014, , 387-404.		0