

**Table S2.** The 100 most-cited articles on scrub typhus

Rank	First author	Year	Article	TC	ACI	WoS category
1	Watt G	2003	Scrub typhus and tropical rickettsioses	227	15.13	Infectious Diseases
2	Kelly DJ	2009	Scrub typhus: the geographic distribution of phenotypic and genotypic variants of <i>Orientia tsutsugamushi</i>	216	24.00	mmunology; Infectious Diseases; Microbiology
3	Watt G	1996	Scrub typhus infections poorly responsive to antibiotics in northern Thailand	172	7.82	Medicine, General & Internal
4	Seong SY	2001	<i>Orientia tsutsugamushi</i> infection: overview and immune responses	161	9.47	Immunology; Infectious Diseases; Microbiology
5	Spitz S	1945	A comparative study of the pathology of scrub typhus ( <i>tsutsugamushi</i> disease) and other rickettsial diseases	158	2.16	Pathology
6	Traub R	1974	Ecology of chigger-borne rickettsiosis (scrub typhus) 1,2	153	3.48	Entomology; Veterinary Sciences
7	Bozeman FM	1963	Serological diagnosis of scrub typhus by indirect immunofluorescence	125	2.27	Medicine, Research & Experimental
8	Blacksell SD	2007	Scrub typhus serologic testing with the indirect immunofluorescence method as a diagnostic gold standard: a lack of consensus leads to a lot of confusion	124	11.27	Immunology; Infectious Diseases; Microbiology
9	Koh GC	2010	Diagnosis of scrub typhus	124	15.50	Public, Environmental & Occupational Health; Tropical Medicine
10	Paris DH	2013	Review article: unresolved problems related to scrub typhus: a seriously neglected life-threatening disease	118	23.60	Public, Environmental & Occupational Health; Tropical Medicine
11	Berman SJ	1973	Scrub typhus in South-Vietnam: study of 87 cases	114	2.53	Medicine, General & Internal
12	Ogawa M	2002	Scrub typhus in Japan: epidemiology and clinical features of cases reported in 1998	102	6.38	Public, Environmental & Occupational Health; Tropical Medicine
13	Brown GW	1976	Scrub typhus: common cause of illness in indigenous populations	96	2.29	Public, Environmental & Occupational Health; Tropical Medicine
14	Varghese GM	2006	Scrub typhus among hospitalised patients with febrile illness in South India: magnitude and clinical predictors	94	7.83	Infectious Diseases
15	Smadel JE	1949	Chloramphenicol (Chloromycetin) in the treatment of <i>tsutsugamushi</i> disease (scrub typhus)	92	1.33	Medicine, Research & Experimental
16	Moron CG	2001	Identification of the target cells of <i>Orientia tsutsugamushi</i> in human cases of scrub typhus	92	5.41	Pathology
17	Kim DM	2010	Clinical and laboratory findings associated with severe Scrub typhus	91	11.38	Infectious Diseases
18	Groves MG	1978	Host defenses in experimental scrub typhus: genetics of natural-resistance to infection	90	2.25	Immunology; Infectious Diseases
19	Ewing EP	1978	Experimental-infection of mouse peritoneal mesothelium with scrub typhus rickettsiae: ultrastructural-study	90	2.25	Immunology; Infectious Diseases
20	Shirai A	1976	Host defenses in experimental scrub typhus-role of cellular immunity in heterologous protection	89	2.12	Immunology; Infectious Diseases
21	Wang CC	2007	Acute respiratory distress syndrome in scrub typhus	88	8.00	Public, Environmental & Occupational Health; Tropical Medicine
22	Smadel JE	1948	Chloromycetin in the treatment of scrub typhus	85	1.21	Multidisciplinary Sciences
23	Watt G	2000	Doxycycline and rifampicin for mild scrub-typhus infections in northern Thailand: a randomised trial	84	4.67	Medicine, General & Internal
24	Weitzel T	2016	Endemic scrub typhus in South America	84	42.00	Medicine, General & Internal
25	Taylor AJ	2015	A systematic review of mortality from untreated scrub typhus ( <i>Orientia tsutsugamushi</i> )	83	27.67	Infectious Diseases; Parasitology; Tropical Medicine
26	Jackson EB	1951	Immunization against scrub typhus: 2. preparation of lyophilized living vaccine	81	1.21	Public, Environmental & Occupational Health

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Rank	First author	Year	Article	TC	ACI	WoS category
27	Mahajan SK	2006	Scrub typhus in Malayas	81	6.75	Immunology; Infectious Diseases
28	Phimda K	2007	Doxycycline versus azithromycin for treatment of leptospirosis and scrub typhus	79	7.18	Microbiology; Pharmacology & Pharmacy
29	Chrispal A	2010	Scrub typhus: an unrecognized threat in South India-clinical profile and predictors of mortality	78	9.75	Public, Environmental & Occupational Health; Tropical Medicine
30	Groves MG	1980	Host defenses in experimental scrub typhus: mapping the gene that controls natural resistance in mice	77	2.03	Immunology
31	Pai HJ	1997	Central nervous system involvement in patients with scrub typhus	76	3.62	Immunology; Infectious Diseases; Microbiology
32	Blake FG	1946	Studies on tsutsugamushi disease (scrub typhus, mite-borne typhus) in New-Guinea and adjacent islands: epidemiology, clinical observations, and etiology in the dobadura area	75	1.03	Public, Environmental & Occupational Health
33	Sayen JJ	1945	Scrub typhus in assam and burma: a clinical study of 616 cases	75	1.04	Medicine, General & Internal
34	Balcells ME	2011	Endemic scrub typhus-like illness, Chile	74	10.57	Immunology; Infectious Diseases
35	Brown GW	1983	Diagnostic-criteria for scrub typhus: probability values for immunofluorescent antibody and proteus oxk agglutinin titers	71	2.03	Public, Environmental & Occupational Health; Tropical Medicine
36	Smadel JE	1952	Persistence of rickettsia-tsutsugamushi in tissues of patients recovered from scrub typhus	69	1.05	Public, Environmental & Occupational Health
37	Varghese GM	2014	Clinical profile and improving mortality trend of scrub typhus in South India	69	17.25	Infectious Diseases
38	Sirisanthana V	2003	Epidemiologic, clinical and laboratory features of scrub typhus in thirty Thai children	68	4.53	Immunology; Infectious Diseases; Pediatrics
39	Kim YS	2004	A comparative trial of a single dose of azithromycin versus doxycycline for the treatment of mild scrub typhus	68	4.86	Immunology; Infectious Diseases; Microbiology
40	Xu G	2007	A review of the global epidemiology of scrub typhus	68	68.00	Infectious Diseases; Parasitology; Tropical Medicine
41	Kim DM	2007	Distribution of eschars on the body of scrub typhus patients: a prospective study	66	6.00	Public, Environmental & Occupational Health; Tropical Medicine
42	Smadel JE	1949	Chloramphenicol (chloromycetin) in the chemoprophylaxis of scrub typhus (tsutsugamushi disease): 2. results with volunteers exposed in hyperendemic areas of scrub typhus	65	0.94	Public, Environmental & Occupational Health
43	Bonell A	2017	Estimating the burden of scrub typhus: a systematic review	63	63.00	Infectious Diseases; Parasitology; Tropical Medicine
44	Strickman D	1995	In-vitro effectiveness of azithromycin against doxycycline-resistant and doxycycline-susceptible strains of rickettsia-tsutsugamushi, etiologic agent of scrub typhus	60	2.61	Microbiology; Pharmacology & Pharmacy
45	Sharma A	2005	Investigation of an outbreak of scrub typhus in the Himalayan region of India	60	4.62	Infectious Diseases
46	Nacy CA	1979	Host defenses in experimental scrub typhus: role of normal and activated macrophages	59	1.51	Immunology; Infectious Diseases
47	Watt G	2000	HIV-1 suppression during acute scrub-typhus infection	58	3.22	Medicine, General & Internal
48	Rights FL	1948	Studies on scrub typhus (tsutsugamushi disease): 3. heterogeneity of strains of R-tsutsugamushi as demonstrated by cross-vaccination studies	57	0.81	Immunology; Medicine, Research & Experimental
49	Paris DH	2012	Orientia tsutsugamushi in human scrub typhus eschars shows tropism for dendritic cells and monocytes rather than endothelium	57	9.50	Infectious Diseases; Parasitology; Tropical Medicine

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Rank	First author	Year	Article	TC	ACI	WoS category
50	Brown GW	1978	Single dose doxycycline therapy for scrub typhus	56	1.40	Public, Environmental & Occupational Health, Tropical Medicine
51	Bourgeois AL	1982	Humoral and cellular-responses in scrub typhus patients reflecting primary infection and reinfection with rickettsia-tsutsugamushi	56	1.56	Public, Environmental & Occupational Health, Tropical Medicine
52	Sonthayanon P	2009	Association of high Orientia tsutsugamushi DNA loads with disease of greater severity in adults with scrub typhus	56	6.22	Microbiology
53	Viswanathan S	2013	Scrub typhus meningitis in South India: a retrospective study	56	11.20	Multidisciplinary Sciences
54	Rapmund G	1969	Transovarial development of scrub typhus rickettsiae in a colony of vector mites	55	1.12	Public, Environmental & Occupational Health, Tropical Medicine
55	Dasch Ga	1979	Sensitive microplate enzyme-linked immunosorbent assay for detection of antibodies against the scrub typhus rickettsia, rickettsia-tsutsugamushi	55	1.41	Microbiology
56	Richards AL	2007	Scrub typhus vaccines: past history and recent developments human vaccines	55	5.00	Biotechnology & Applied Microbiology; Immunology
57	Lee CS	2009	Risk factors leading to fatal outcome in scrub typhus patients	54	6.00	Public, Environmental & Occupational Health, Tropical Medicine
58	Song SW	2004	Clinical role of interstitial pneumonia in patients with scrub typhus: a possible marker of disease severity	53	3.79	Medicine, General & Internal
59	Phillip CB	1948	Tsutsugamushi disease (scrub typhus) in World-War-II	52	0.74	Parasitology
60	Lee YS	2006	Epidemiology of scrub typhus in eastern Taiwan, 2000-2004	52	4.33	Infectious Diseases
61	Smadel JE	1952	Immunization against scrub typhus: duration of immunity in volunteers following combined living vaccine and chemoprophylaxis	51	0.77	Public, Environmental & Occupational Health, Tropical Medicine
62	Cracco C	2000	Multiple organ failure complicating probable scrub typhus	51	2.83	Immunology; Infectious Diseases; Microbiology
63	Silpapojakul K	2004	Paediatric scrub typhus in Thailand: a study of 73 confirmed cases	51	3.64	Public, Environmental & Occupational Health, Tropical Medicine
64	Richards AL	1997	Seroepidemiologic evidence for murine and scrub typhus in Malang, Indonesia	50	2.38	Public, Environmental & Occupational Health, Tropical Medicine
65	Bengtson IA	1945	Apparent serological heterogeneity among strains of tsutsugamushi disease (scrub typhus)	49	0.67	Public, Environmental & Occupational Health
66	Chi WC	1997	Scrub typhus associated with multiorgan failure: a case report	49	2.33	Infectious Diseases
67	Hu ML	2005	Short report: abnormal liver function in scrub typhus	49	3.77	Public, Environmental & Occupational Health, Tropical Medicine
68	Sheehy TW	1973	Scrub typhus: comparison of chloramphenicol and tetracycline in its treatment	48	1.07	Medicine, General & Internal
69	Kim DM	2006	Usefulness of nested PCR for the diagnosis of scrub typhus in clinical practice: a prospective study	48	4.00	Public, Environmental & Occupational Health, Tropical Medicine
70	Paris DH	2016	State of the art of diagnosis of rickettsial diseases: the use of blood specimens for diagnosis of scrub typhus, spotted fever group rickettsiosis, and murine typhus	48	24.00	Infectious Diseases
71	Levine HD	1946	Pathologic study of 31 cases of scrub typhus fever with especial reference to the cardiovascular system	47	0.65	Cardiac & Cardiovascular Systems
72	Jerrells TR	1982	Host defenses in experimental scrub typhus: delayed-type hypersensitivity responses of inbred mice	47	1.31	Immunology; Infectious Diseases
73	Choi YH	2000	Scrub typhus: radiological and clinical findings	47	2.61	Radiology, Nuclear Medicine & Medical Imaging

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Rank	First author	Year	Article	TC	ACI	WoS category
74	Watt G	2003	Possible scrub typhus coinfections in Thai agricultural workers hospitalized with leptospirosis	47	3.13	Public, Environmental & Occupational Health, Tropical Medicine
75	Kim DM	2006	Clinical usefulness of eschar polymerase chain reaction for the diagnosis of scrub typhus: a prospective study	47	3.92	Immunology; Infectious Diseases; Microbiology
76	Catanzaro PJ	1976	Host defenses in experimental scrub typhus: histopathological correlates	46	1.10	Immunology; Infectious Diseases
77	Ching WM	2001	Early diagnosis of scrub typhus with a rapid flow assay using recombinant major outer membrane protein antigen (r56) of <i>Orientia tsutsugamushi</i>	46	2.71	Immunology; Infectious Diseases; Microbiology
78	Settle EB	1945	A pathologic study of tsutsugamushi disease (scrub-typhus) with notes on clinicopathologic correlation	45	0.62	Medical Laboratory Technology; Medicine, General & Internal; Medicine, Research & Experimental
79	Smadel JE	1950	Immunity in scrub typhus: resistance to induced reinfection	45	0.66	Pathology
80	Twartz JC	1982	Doxycycline prophylaxis for human scrub typhus	45	1.25	Immunology; Infectious Diseases; Microbiology
81	Premaratna R	2006	Acute hearing loss due to scrub typhus: a forgotten complication of a reemerging disease	45	3.75	Immunology; Infectious Diseases; Microbiology
82	Kohls GM	1945	Studies on Tsutsugamushi disease (scrub typhus, mite-borne typhus) in New-Guinea and adjacent Islands: further observations on epidemiology and etiology	44	0.60	Microbiology
83	Blacksell SD	2008	Genetic typing of the 56-kDa type-specific antigen gene of contemporary <i>Orientia tsutsugamushi</i> isolates causing human scrub typhus at two sites in north-eastern and western Thailand	44	4.40	Immunology; Infectious Diseases; Microbiology
84	Zhang SY	2010	Scrub typhus in previously unrecognized areas of endemicity in China	44	5.50	Microbiology
85	Paris DH	2011	Diagnostic accuracy of a loop-mediated isothermal PCR assay for detection of <i>Orientia tsutsugamushi</i> during acute scrub typhus infection	44	6.29	Infectious Diseases; Parasitology; Tropical Medicine
86	Kuo CC	2011	Spatial analysis of scrub typhus infection and its association with environmental and socioeconomic factors in Taiwan	43	6.14	Parasitology; Tropical Medicine
87	Varghese GM	2013	Scrub typhus in South India: clinical and laboratory manifestations, genetic variability, and outcome	43	8.60	Infectious Diseases
88	Tierney NA	1946	Effect of para-aminobenzoic acid in tsutsugamushi disease	42	0.58	Medicine, General & Internal
89	Oaks SC	1997	Plaque assay and cloning of scrub typhus rickettsiae in irradiated I-929 cells	41	1.00	Microbiology
90	Kim IS	1993	Rapid diagnosis of scrub typhus by a passive hemagglutination assay using recombinant 56-kilodalton polypeptides	41	1.64	Microbiology
91	Kim DE	2000	Scrub typhus encephalomyelitis with prominent focal neurologic signs	41	2.28	Clinical Neurology
92	Sonthayanon P	2006	Rapid diagnosis of scrub typhus in rural Thailand using polymerase chain reaction	41	3.42	Public, Environmental & Occupational Health; Tropical Medicine
93	Rajapakse S	2012	Scrub typhus: pathophysiology, clinical manifestations and prognosis	41	6.83	Public, Environmental & Occupational Health, Tropical Medicine
94	Varghese GM	2015	Molecular epidemiology and genetic diversity of <i>Orientia tsutsugamushi</i> from patients with scrub typhus in 3 regions of India	41	13.67	Immunology; Infectious Diseases
95	Jerrells TR	1981	Host defenses in experimental scrub typhus - inflammatory response of congenic c3H mice differing at the ric-gene	40	1.08	Immunology; Infectious Diseases
96	Iwasaki H	1997	Increased levels of macrophage colony-stimulating factor, gamma interferon, and tumor necrosis factor alpha in sera of patients with <i>Orientia tsutsugamushi</i> infection	40	1.90	Microbiology

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Rank	First author	Year	Article	TC	ACI	WoS category
97	Prakash JA	2006	Evaluation of tests for serological diagnosis of scrub typhus	40	3.33	Public, Environmental & Occupational Health; Tropical Medicine
98	Chierakul W	2004	Differential expression of interferon-gamma and interferon-gamma-inducing cytokines in Thai patients with scrub typhus or leptospirosis	39	2.79	Immunology
99	Narvencar KP	2012	Scrub typhus in patients reporting with acute febrile illness at a tertiary health care institution in Goa	39	6.50	Immunology; Medicine, General & Internal; Medicine, Research & Experimental
100	Maina AN	2016	Q fever, scrub typhus, and rickettsial diseases in children, Kenya, 2011-2012	39	19.50	Immunology; Infectious Diseases

TC, total number of citations; ACI, Adjusted Citation Index; WoS, Web of Science.