Konstantin Sparrer

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63 papers	2,017 citations	23 h-index	44 g-index
71 ext. papers	3,046 ext. citations	11.4 avg, IF	5.29 L-index

#	Paper	IF	Citations
63	Structural basis for translational shutdown and immune evasion by the Nsp1 protein of SARS-CoV-2. *Science*, **2020**, 369, 1249-1255	33.3	352
62	SARS-CoV-2 infects and replicates in cells of the human endocrine and exocrine pancreas. *Nature Metabolism*, **2021**, 3, 149-165	14.6	176
61	Viral unmasking of cellular 5S rRNA pseudogene transcripts induces RIG-I-mediated immunity. *Nature Immunology*, **2018**, 19, 53-62	19.1	126
60	TRIM Proteins and Their Roles in Antiviral Host Defenses. *Annual Review of Virology*, **2018**, 5, 385-405	14.6	102
59	In vivo ligands of MDA5 and RIG-I in measles virus-infected cells. *PLoS Pathogens*, **2014**, 10, e1004081	7.6	96
58	TRIM23 mediates virus-induced autophagy via activation of TBK1. *Nature Microbiology*, **2017**, 2, 1543-1557	16.6	95
57	Mechanism of TRIM25 Catalytic Activation in the Antiviral RIG-I Pathway. *Cell Reports*, **2016**, 16, 1315-1325	8.6	85
56	Intracellular detection of viral nucleic acids. *Current Opinion in Microbiology*, **2015**, 26, 1-9	7.9	76
55	ATP hydrolysis by the viral RNA sensor RIG-I prevents unintentional recognition of self-RNA. *ELife*, **2015**, 4,	8.9	63
54	Systematic functional analysis of SARS-CoV-2 proteins uncovers viral innate immune antagonists and remaining vulnerabilities. *Cell Reports*, **2021**, 35, 109126	10.6	61
53	SARS-CoV-2 Is Restricted by Zinc Finger Antiviral Protein despite Preadaptation to the Low-CpG Environment in Humans. *MBio*, **2020**, 11,	7.8	60
52	Click-modified anandamide siRNA enables delivery and gene silencing in neuronal and immune cells. *Journal of the American Chemical Society*, **2012**, 134, 12330-3	16.4	59
51	Guanylate-Binding Proteins 2 and 5 Exert Broad Antiviral Activity by Inhibiting Furin-Mediated Processing of Viral Envelope Proteins. *Cell Reports*, **2019**, 27, 2092-2104.e10	10.6	53
50	Measles virus C protein interferes with Beta interferon transcription in the nucleus. *Journal of Virology*, **2012**, 86, 796-805	6.6	53
49	TRIM25 Binds RNA to Modulate Cellular Anti-viral Defense. *Journal of Molecular Biology*, **2018**, 430, 5280-5293	6.5	43
48	IFITM proteins promote SARS-CoV-2 infection and are targets for virus inhibition in vitro. *Nature Communications*, **2021**, 12, 4584	17.4	38
47	Cell-penetrating and neurotargeting dendritic siRNA nanostructures. *Angewandte Chemie - International Edition*, **2015**, 54, 1946-9	16.4	35

46	Drug Inhibition of SARS-CoV-2 Replication in Human Pluripotent Stem Cell-Derived Intestinal Organoids. *Cellular and Molecular Gastroenterology and Hepatology*, **2021**, 11, 935-948	7.9	33
45	Alpha-1 antitrypsin inhibits TMPRSS2 protease activity and SARS-CoV-2 infection. *Nature Communications*, **2021**, 12, 1726	17.4	32
44	CpG Frequency in the 5′Third of the Gene Determines Sensitivity of Primary HIV-1 Strains to the Zinc-Finger Antiviral Protein. *MBio*, **2020**, 11,	7.8	30
43	TRIM proteins: New players in virus-induced autophagy. *PLoS Pathogens*, **2018**, 14, e1006787	7.6	28
42	An enzyme-based immunodetection assay to quantify SARS-CoV-2 infection. *Antiviral Research*, **2020**, 181, 104882	10.8	25
41	Centrosomal protein TRIM43 restricts herpesvirus infection by regulating nuclear lamina integrity. *Nature Microbiology*, **2019**, 4, 164-176	26.6	23
40	Manipulation of autophagy by SARS-CoV-2 proteins. *Autophagy*, **2021**, 17, 2659-2661	10.2	23
39	The antiviral activities of TRIM proteins. *Current Opinion in Microbiology*, **2021**, 59, 50-57	7.9	20
38	Inhaled and systemic heparin as a repurposed direct antiviral drug for prevention and treatment of COVID-19. *Clinical Medicine*, **2020**, 20, e218-e221	1.9	19
37	Structural basis for translational shutdown and immune evasion by the Nsp1 protein of SARS-CoV-2		18
36	SIVcol Nef counteracts SERINC5 by promoting its proteasomal degradation but does not efficiently enhance HIV-1 replication in human CD4+ T cells and lymphoid tissue. *PLoS Pathogens*, **2018**, 14, e1007269	7.6	17
35	Omicron: what makes the latest SARS-CoV-2 variant of concern so concerning?. *Journal of Virology*, **2022**, jvi0207721	6.6	17
34	IFITM proteins promote SARS-CoV-2 infection and are targets for virus inhibition		14
33	HIV-1 infection activates endogenous retroviral promoters regulating antiviral gene expression. *Nucleic Acids Research*, **2020**, 48, 10890-10908	20.1	14
32	Supramolecular Mechanism of Viral Envelope Disruption by Molecular Tweezers. *Journal of the American Chemical Society*, **2020**, 142, 17024-17038	16.4	14
31	HIV-1 Nef counteracts autophagy restriction by enhancing the association between BECN1 and its inhibitor BCL2 in a PRKN-dependent manner. *Autophagy*, **2021**, 17, 553-577	10.2	14
30	Nuclear PYHIN proteins target the host transcription factor Sp1 thereby restricting HIV-1 in human macrophages and CD4+ T cells. *PLoS Pathogens*, **2020**, 16, e1008752	7.6	12
29	Remdesivir but not famotidine inhibits SARS-CoV-2 replication in human pluripotent stem cell-derived intestinal organoids		9

28	Alpha-1 antitrypsin inhibits SARS-CoV-2 infection		9
27	Implications of Innate Immunity in Post-Acute Sequelae of Non-Persistent Viral Infections. *Cells*, **2021**, 10,	7.9	9
26	An improved method for high-throughput quantification of autophagy in mammalian cells. *Scientific Reports*, **2020**, 10, 12241	4.9	8
25	Vpu modulates DNA repair to suppress innate sensing and hyper-integration of HIV-1. *Nature Microbiology*, **2020**, 5, 1247-1261	26.6	6
24	Narrow Stimulated Resonance Raman Scattering and WGM Lasing in Small Conjugated Polymer Particles for Live Cell Tagging and Tracking. *Advanced Optical Materials*, **2021**, 9, 2001553	8.1	6
23	Dendritische Nanostrukturen zur rezeptorvermittelten Aufnahme von siRNA in neurale Zellen. *Angewandte Chemie*, **2015**, 127, 1968-1971	3.6	5
22	The Delta variant of SARS-CoV-2 maintains high sensitivity to interferons in human lung cells		5
21	The Zinc Finger Antiviral Protein restricts SARS-CoV-2		5
20	SARS-CoV-2 causes senescence in human cells and exacerbates the senescence-associated secretory phenotype through TLR-3. *Aging*, **2021**, 13, 21838-21854	5.6	4
19	SARS-CoV-2 Variants of Concern Hijack IFITM2 for Efficient Replication in Human Lung Cells.. *Journal of Virology*, **2022**, e0059422	6.6	4
18	Spike residue 403 affects binding of coronavirus spikes to human ACE2. *Nature Communications*, **2021**, 12, 6855	17.4	3
17	Interferon antagonists encoded by SARS-CoV-2 at a glance.. *Medical Microbiology and Immunology*, **2022**, 1	4	3
16	Complete Genome Sequence of a Wild-Type Measles Virus Isolated during the Spring 2013 Epidemic in Germany. *Genome Announcements*, **2014**, 2,		2
15	Imperfect innate immune antagonism renders SARS-CoV-2 vulnerable towards IFN-and -		2
14	Natural cystatin C fragments inhibit GPR15-mediated HIV and SIV infection without interfering with GPR15L signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	2
13	RINT1 Regulates SUMOylation and the DNA Damage Response to Preserve Cellular Homeostasis in Pancreatic Cancer. *Cancer Research*, **2021**, 81, 1758-1774	10.1	2
12	Luciferase reporter assays to monitor interferon signaling modulation by SARS-CoV-2 proteins. *STAR Protocols*, **2021**, 2, 100781	1.4	2
11	CRISPA: A Non-viral, Transient Cas9 Delivery System Based on Reengineered Anthrax Toxin. *Frontiers in Pharmacology*, **2021**, 12, 770283	5.6	1

10	IFITM dependency of SARS-CoV-2 variants of concern		1
9	Cellular Protrusions Engage Viral Infection Enhancing EF-C Peptide Nanofibrils		1
8	SARS-CoV-2 variants of concern remain dependent on IFITM2 for efficient replication in human lung cells		1
7	HIV protease: late action to prevent immune detection. *Signal Transduction and Targeted Therapy*, **2021**, 6, 157	21	0
6	Viral Transduction Enhancing Effect of EF-C Peptide Nanofibrils Is Mediated by Cellular Protrusions. *Advanced Functional Materials*, **2021**, 31, 2104814	15.6	
5	An additional NF-B site allows HIV-1 subtype C to evade restriction by nuclear PYHIN proteins. *Cell Reports*, **2021**, 36, 109735	10.6	
4	Nuclear PYHIN proteins target the host transcription factor Sp1 thereby restricting HIV-1 in human macrophages and CD4+ T cells **2020**, 16, e1008752		
3	Nuclear PYHIN proteins target the host transcription factor Sp1 thereby restricting HIV-1 in human macrophages and CD4+ T cells **2020**, 16, e1008752		
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