Konstantin Sparrer

List of Publications by Year
in descending order

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52 papers	3,858 citations	172457 29 h-index	197818 49 g-index
71 all docs	71 docs citations	71 times ranked	6664 citing authors

#	Article	IF	Citations
1	Structural basis for translational shutdown and immune evasion by the Nsp1 protein of SARS-CoV-2. Science, 2020, 369, 1249-1255.	12.6	635
2	SARS-CoV-2 infects and replicates in cells of the human endocrine and exocrine pancreas. Nature Metabolism, 2021, 3, 149-165.	11.9	378
3	TRIM Proteins and Their Roles in Antiviral Host Defenses. Annual Review of Virology, 2018, 5, 385-405.	6.7	211
4	Viral unmasking of cellular 5S rRNA pseudogene transcripts induces RIG-I-mediated immunity. Nature Immunology, 2018, 19, 53-62.	14.5	179
5	Systematic functional analysis of SARS-CoV-2 proteins uncovers viral innate immune antagonists and remaining vulnerabilities. Cell Reports, 2021, 35, 109126.	6.4	176
6	TRIM23 mediates virus-induced autophagy via activation of TBK1. Nature Microbiology, 2017, 2, 1543-1557.	13.3	160
7	Omicron: What Makes the Latest SARS-CoV-2 Variant of Concern So Concerning?. Journal of Virology, 2022, 96, jvi0207721.	3.4	143
8	IFITM proteins promote SARS-CoV-2 infection and are targets for virus inhibition in vitro. Nature Communications, 2021, 12, 4584.	12.8	129
9	Mechanism of TRIM25 Catalytic Activation in the Antiviral RIG-I Pathway. Cell Reports, 2016, 16, 1315-1325.	6.4	114
10	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.	6.4	112
11	In Vivo Ligands of MDA5 and RIG-I in Measles Virus-Infected Cells. PLoS Pathogens, 2014, 10, e1004081.	4.7	111
12	SARS-CoV-2 Is Restricted by Zinc Finger Antiviral Protein despite Preadaptation to the Low-CpG Environment in Humans. MBio, 2020, 11, .	4.1	106
13	Intracellular detection of viral nucleic acids. Current Opinion in Microbiology, 2015, 26, 1-9.	5.1	103
14	Alpha-1 antitrypsin inhibits TMPRSS2 protease activity and SARS-CoV-2 infection. Nature Communications, 2021, 12, 1726.	12.8	86
15	ATP hydrolysis by the viral RNA sensor RIG-I prevents unintentional recognition of self-RNA. ELife, 2015, 4, .	6.0	75
16	Drug Inhibition of SARS-CoV-2 Replication in Human Pluripotent Stem Cellâ€"Derived Intestinal Organoids. Cellular and Molecular Gastroenterology and Hepatology, 2021, 11, 935-948.	4.5	69
17	Click-Modified Anandamide siRNA Enables Delivery and Gene Silencing in Neuronal and Immune Cells. Journal of the American Chemical Society, 2012, 134, 12330-12333.	13.7	67
18	TRIM25 Binds RNA to Modulate Cellular Anti-viral Defense. Journal of Molecular Biology, 2018, 430, 5280-5293.	4.2	66

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19	Manipulation of autophagy by SARS-CoV-2 proteins. Autophagy, 2021, 17, 2659-2661.	9.1	65
20	Measles Virus C Protein Interferes with Beta Interferon Transcription in the Nucleus. Journal of Virology, 2012, 86, 796-805.	3.4	60
21	The antiviral activities of TRIM proteins. Current Opinion in Microbiology, 2021, 59, 50-57.	5.1	56
22	HIV-1 infection activates endogenous retroviral promoters regulating antiviral gene expression. Nucleic Acids Research, 2020, 48, 10890-10908.	14.5	54
23	SARS-CoV-2 causes senescence in human cells and exacerbates the senescence-associated secretory phenotype through TLR-3. Aging, 2021, 13, 21838-21854.	3.1	51
24	CpG Frequency in the 5â€² Third of the env Gene Determines Sensitivity of Primary HIV-1 Strains to the Zinc-Finger Antiviral Protein. MBio, 2020, 11, .	4.1	46
25	Cellâ€Penetrating and Neurotargeting Dendritic siRNA Nanostructures. Angewandte Chemie - International Edition, 2015, 54, 1946-1949.	13.8	44
26	TRIM proteins: New players in virus-induced autophagy. PLoS Pathogens, 2018, 14, e1006787.	4.7	39
27	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	39
28	Centrosomal protein TRIM43 restricts herpesvirus infection by regulating nuclear lamina integrity. Nature Microbiology, 2019, 4, 164-176.	13.3	37
29	An enzyme-based immunodetection assay to quantify SARS-CoV-2 infection. Antiviral Research, 2020, 181, 104882.	4.1	34
30	Supramolecular Mechanism of Viral Envelope Disruption by Molecular Tweezers. Journal of the American Chemical Society, 2020, 142, 17024-17038.	13.7	31
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.	9.1	31
32	Implications of Innate Immunity in Post-Acute Sequelae of Non-Persistent Viral Infections. Cells, 2021, 10, 2134.	4.1	29
33	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.	4.7	26
34	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.	4.7	25
35	Spike residue 403 affects binding of coronavirus spikes to human ACE2. Nature Communications, 2021, 12, 6855.	12.8	25
36	Vpu modulates DNA repair to suppress innate sensing and hyper-integration of HIV-1. Nature Microbiology, 2020, 5, 1247-1261.	13.3	22

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37	An improved method for high-throughput quantification of autophagy in mammalian cells. Scientific Reports, 2020, 10, 12241.	3.3	21
38	SARS-CoV-2 Variants of Concern Hijack IFITM2 for Efficient Replication in Human Lung Cells. Journal of Virology, 2022, 96, e0059422.	3.4	21
39	Interferon antagonists encoded by SARS-CoV-2 at a glance. Medical Microbiology and Immunology, 2023, 212, 125-131.	4.8	20
40	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, .	7.1	11
41	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.	7.3	7
42	Luciferase reporter assays to monitor interferon signaling modulation by SARS-CoV-2 proteins. STAR Protocols, 2021, 2, 100781.	1.2	7
43	RINT1 Regulates SUMOylation and the DNA Damage Response to Preserve Cellular Homeostasis in Pancreatic Cancer. Cancer Research, 2021, 81, 1758-1774.	0.9	6
44	Viral Transduction Enhancing Effect of EFâ€€ Peptide Nanofibrils Is Mediated by Cellular Protrusions. Advanced Functional Materials, 2021, 31, 2104814.	14.9	6
45	An additional NF-ÎºB site allows HIV-1 subtype C to evade restriction by nuclear PYHIN proteins. Cell Reports, 2021, 36, 109735.	6.4	6
46	HIV protease: late action to prevent immune detection. Signal Transduction and Targeted Therapy, 2021, 6, 157.	17.1	3
47	CRISPA: A Non-viral, Transient Cas9 Delivery System Based on Reengineered Anthrax Toxin. Frontiers in Pharmacology, 2021, 12, 770283.	3.5	3
48	Complete Genome Sequence of a Wild-Type Measles Virus Isolated during the Spring 2013 Epidemic in Germany. Genome Announcements, 2014, 2, .	0.8	2
49	Title is missing!. , 2020, 16, e1008752.		0
50	Title is missing!. , 2020, 16, e1008752.		0
51	Title is missing!. , 2020, 16, e1008752.		0
52	Title is missing!. , 2020, 16, e1008752.		0