

# K R Anderson

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

1,401  
citations

430874

18  
h-index

454955

30  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1203  
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2018 rift eruption and summit collapse of K�lauea Volcano. <i>Science</i> , 2019, 363, 367-374.	12.6	353
2	Magma reservoir failure and the onset of caldera collapse at K�lauea Volcano in 2018. <i>Science</i> , 2019, 366, .	12.6	112
3	Bayesian inversion of data from effusive volcanic eruptions using physics�based models: Application to Mount St. Helens 2004�2008. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 2017-2037.	3.4	94
4	Physics-based models of ground deformation and extrusion rate at effusively erupting volcanoes. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	90
5	Bayesian estimation of magma supply, storage, and eruption rates using a multiphysical volcano model: K�lauea Volcano, 2000�2012. <i>Earth and Planetary Science Letters</i> , 2016, 447, 161-171.	4.4	77
6	Cyclic lava effusion during the 2018 eruption of K�lauea Volcano. <i>Science</i> , 2019, 366, .	12.6	75
7	Lava lake level as a gauge of magma reservoir pressure and eruptive hazard. <i>Geology</i> , 2015, 43, 831-834.	4.4	66
8	Partly Cloudy With a Chance of Lava Flows: Forecasting Volcanic Eruptions in the Twenty�First Century. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2018JB016974.	3.4	49
9	The cascading origin of the 2018 K�lauea eruption and implications for future forecasting. <i>Nature Communications</i> , 2020, 11, 5646.	12.8	49
10	Abundant carbon in the mantle beneath Hawai�i. <i>Nature Geoscience</i> , 2017, 10, 704-708.	12.9	46
11	Cyclic ground tilt associated with the 2004�2008 eruption of Mount St. Helens. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	45
12	Decaying Lava Extrusion Rate at El Reventador Volcano, Ecuador, Measured Using High�Resolution Satellite Radar. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9966-9988.	3.4	41
13	Eruptions in sync: Improved constraints on K�lauea Volcano's hydraulic connection. <i>Earth and Planetary Science Letters</i> , 2019, 507, 50-61.	4.4	40
14	Mechanics of Inflationary Deformation During Caldera Collapse: Evidence From the 2018 K�lauea Eruption. <i>Geophysical Research Letters</i> , 2019, 46, 11782-11789.	4.0	27
15	The 2004�2008 dome-building eruption at Mount St. Helens, Washington: epilogue. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	3.0	21
16	The Prevalence and Significance of Offset Magma Reservoirs at Arc Volcanoes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087856.	4.0	21
17	Evaluating the state-of-the-art in remote volcanic eruption characterization Part I: Raikoke volcano, Kuril Islands. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 419, 107354.	2.1	21
18	Physicochemical models of effusive rhyolitic eruptions constrained with InSAR and DEM data: A case study of the 2011-2012 Cord�n Caulle eruption. <i>Earth and Planetary Science Letters</i> , 2019, 524, 115736.	4.4	19

#	ARTICLE	IF	CITATIONS
19	Caldera Collapse Geometry Revealed by Near-Field GPS Displacements at K�lauea Volcano in 2018. Geophysical Research Letters, 2020, 47, e2020GL088867.	4.0	17
20	Repeating caldera collapse events constrain fault friction at the kilometer scale. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	17
21	Constraining the Magmatic System at Mount St. Helens (2004-2008) Using Bayesian Inversion With Physics-Based Models Including Gas Escape and Crystallization. Journal of Geophysical Research: Solid Earth, 2017, 122, 7789-7812.	3.4	12
22	A Cautionary Tale of Topography and Tilt from K�lauea Caldera. Geophysical Research Letters, 2019, 46, 4221-4229.	4.0	10
23	Multidisciplinary Constraints on Magma Compressibility, the Pre-Eruptive Exsolved Volatile Fraction, and the $H_2O/CO_2$ Molar Ratio for the 2006 Augustine Eruption, Alaska. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009911.	2.5	10
24	Evaluating the state-of-the-art in remote volcanic eruption characterization Part II: Ulawun volcano, Papua New Guinea. Journal of Volcanology and Geothermal Research, 2021, 420, 107381.	2.1	10
25	Very-Long-Period (VLP) Seismic Artifacts during the 2018 Caldera Collapse at K�lauea, Hawai�i. Seismological Research Letters, 2020, 91, 3417-3432.	1.9	8
26	Earthquake-Derived Seismic Velocity Changes During the 2018 Caldera Collapse of K�lauea Volcano. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	8
27	Temporal Variations in Scrubbing of Magmatic Gases at the Summit of K�lauea Volcano, Hawai�i. Geophysical Research Letters, 2019, 46, 14469-14476.	4.0	3
28	Rainfall an unlikely factor in K�lauea�s 2018 rift eruption. Nature, 2022, 602, E7-E10.	27.8	3
29	Look up for magma insights. Nature Geoscience, 2014, 7, 168-169.	12.9	1