Arthur F Mcgarr

List of Publications by Year
in descending order

56	3,931	159585 30	155660 55
papers	citations	h-index	g-index

58	58	58	2228
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Maximum magnitude earthquakes induced by fluid injection. Journal of Geophysical Research: Solid Earth, 2014, 119, 1008-1019.	3.4	514
2	State of Stress in the Earth's Crust. Annual Review of Earth and Planetary Sciences, 1978, 6, 405-436.	11.0	464
3	Seismic moments and volume changes. Journal of Geophysical Research, 1976, 81, 1487-1494.	3.3	233
4	On relating apparent stress to the stress causing earthquake fault slip. Journal of Geophysical Research, 1999, 104, 3003-3011.	3.3	226
5	40 Case histories of induced and triggered seismicity. International Geophysics, 2002, , 647-661.	0.6	222
6	Coping with earthquakes induced by fluid injection. Science, 2015, 347, 830-831.	12.6	183
7	The 2001-Present Induced Earthquake Sequence in the Raton Basin of Northern New Mexico and Southern Colorado. Bulletin of the Seismological Society of America, 2014, 104, 2162-2181.	2.3	124
8	2017 Oneâ€Year Seismicâ€Hazard Forecast for the Central and Eastern United States from Induced and Natural Earthquakes. Seismological Research Letters, 2017, 88, 772-783.	1.9	94
9	Increasing seismicity in the U. S. midcontinent: Implications for earthquake hazard. The Leading Edge, 2015, 34, 618-626.	0.7	90
10	Some comparisons between mining-induced and laboratory earthquakes. Pure and Applied Geophysics, 1994, 142, 467-489.	1.9	87
11	Transmission and reflection of Rayleigh waves at vertical boundaries. Journal of Geophysical Research, 1967, 72, 2169-2180.	3.3	82
12	Strong ground motion of mine tremors: Some implications for near-source ground motion parameters. Bulletin of the Seismological Society of America, 1981, 71, 295-319.	2.3	81
13	Strike-slip earthquakes in the oceanic lithosphere: observations of exceptionally high apparent stress. Geophysical Journal International, 2002, 150, 506-523.	2.4	75
14	SEA96--A New Predictive Relation for Earthquake Ground Motions in Extensional Tectonic Regimes. Seismological Research Letters, 1997, 68, 190-198.	1.9	74
15	Relationship of mine tremors to induced stresses and to rock properties in the focal region. Bulletin of the Seismological Society of America, 1975, 65, 981-993.	2.3	67
16	Seismicâ€Hazard Forecast for 2016 Including Induced and Natural Earthquakes in the Central and Eastern United States. Seismological Research Letters, 2016, 87, 1327-1341.	1.9	62
17	An Investigation of Seismicity Induced by Hydraulic Fracturing in the Sichuan Basin of China Based on Data from a Temporary Seismic Network. Bulletin of the Seismological Society of America, 2019, 109, 348-357.	2.3	59
18	Maximum Slip in Earthquake Fault Zones, Apparent Stress, and Stick-Slip Friction. Bulletin of the Seismological Society of America, 2003, 93, 2355-2362.	2.3	57

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19	Seismic moments of earthquakes beneath island arcs, phase changes, and subduction velocities. Journal of Geophysical Research, 1977, 82, 256-264.	3.3	56
20	Moment tensors of ten witwatersrand mine tremors. Pure and Applied Geophysics, 1992, 139, 781-800.	1.9	56
21	Ground motion at the San Francisco international airport from the Loma Prieta earthquake sequence, 1989. Bulletin of the Seismological Society of America, 1991, 81, 1923-1944.	2.3	56
22	Wastewater Disposal and the Earthquake Sequences During 2016 Near Fairview, Pawnee, and Cushing, Oklahoma. Geophysical Research Letters, 2017, 44, 9330-9336.	4.0	55
23	Injectionâ€Induced Moment Release Can Also Be Aseismic. Geophysical Research Letters, 2018, 45, 5344-5351.	4.0	55
24	An implosive component in the seismic moment tensor of a miningâ€induced tremor. Geophysical Research Letters, 1992, 19, 1579-1582.	4.0	52
25	Mapping Apparent Stress and Energy Radiation over Fault Zones of Major Earthquakes. Bulletin of the Seismological Society of America, 2002, 92, 1633-1646.	2.3	51
26	Meteoroid impacts as sources of seismicity on the Moon. Journal of Geophysical Research, 1969, 74, 5981-5994.	3.3	50
27	Amplitude variations of Rayleigh wavesâ€"propagation across a continental margin. Bulletin of the Seismological Society of America, 1969, 59, 1281-1305.	2.3	42
28	Amplitude variations of Rayleigh wavesâ€"horizontal refraction. Bulletin of the Seismological Society of America, 1969, 59, 1307-1334.	2.3	39
29	Measurement of Tilt in a Deep-Level Gold Mine and its Relationship to Mining and Seismicity. Geophysical Journal International, 1975, 43, 327-345.	2.4	35
30	Observations of Strain Accumulation Across the San Andreas Fault Near Palmdale, California, with a Two-Color Geodimeter. Science, 1982, 218, 1217-1219.	12.6	34
31	Excitation of seiches in channels by seismic waves. Journal of Geophysical Research, 1965, 70, 847-854.	3.3	29
32	Moment Tensor Inversion of Ground Motion from Mining-Induced Earthquakes, Trail Mountain, Utah. Bulletin of the Seismological Society of America, 2005, 95, 48-57.	2.3	29
33	A Mechanism for High Wall-rock Velocities in Rockbursts. Pure and Applied Geophysics, 1997, 150, 381-391.	1.9	27
34	Stable deformation of rock near deep-level tabular excavations. Journal of Geophysical Research, 1971, 76, 7088-7106.	3.3	26
35	Coal-Mining Seismicity and Ground-Shaking Hazard: A Case Study in the Trail Mountain Area, Emery County, Utah. Bulletin of the Seismological Society of America, 2005, 95, 18-30.	2.3	26
36	Development of Ground-Motion Prediction Equations Relevant to Shallow Mining-Induced Seismicity in the Trail Mountain Area, Emery County, Utah. Bulletin of the Seismological Society of America, 2005, 95, 31-47.	2.3	24

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37	Decrease in Deformation Rate Observed by Two-Color Laser Ranging in Long Valley Caldera. Science, 1986, 232, 213-216.	12.6	21
38	Distribution of stress drop, stiffness, and fracture energy over earthquake rupture zones. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	21
39	Attempting to bridge the gap between laboratory and seismic estimates of fracture energy. Geophysical Research Letters, 2004, 31, .	4.0	19
40	Upper bounds on near-source peak ground motion based on a model of inhomogeneous faulting. Bulletin of the Seismological Society of America, 1982, 72, 1825-1841.	2.3	19
41	Microtremor sequences and tilting in a deep mine. Bulletin of the Seismological Society of America, 1978, 68, 1679-1697.	2.3	19
42	Seismic monitoring at the Decatur, IL, CO2 sequestration demonstration site. Energy Procedia, 2014, 63, 4264-4272.	1.8	18
43	Near-Fault Peak Ground Velocity from Earthquake and Laboratory Data. Bulletin of the Seismological Society of America, 2007, 97, 1502-1510.	2.3	17
44	A method for mapping apparent stress and energy radiation applied to the 1994 Northridge Earthquake Fault Zone-Revisited. Geophysical Research Letters, 2001, 28, 3529-3532.	4.0	16
45	Relating stickâ€slip friction experiments to earthquake source parameters. Geophysical Research Letters, 2012, 39, .	4.0	16
46	Geodetic measurements of postseismic crustal deformation following the 1979 Imperial Valley earthquake, California. Bulletin of the Seismological Society of America, 1983, 73, 1203-1224.	2.3	16
47	A method for mapping apparent stress and energy radiation applied to the 1994 Northridge Earthquake Fault Zone. Geophysical Research Letters, 2000, 27, 1953-1956.	4.0	13
48	Broadband Records of Earthquakes in Deep Gold Mines and a Comparison with Results from SAFOD, California. Bulletin of the Seismological Society of America, 2009, 99, 2815-2824.	2.3	13
49	Laboratory-Based Maximum Slip Rates in Earthquake Rupture Zones and Radiated Energy. Bulletin of the Seismological Society of America, 2010, 100, 3250-3260.	2.3	13
50	Dependence of magnitude statistics on strain rate. Bulletin of the Seismological Society of America, 1976, 66, 33-44.	2.3	12
51	Earthquake Prediction: Absence of a Precursive Change in Seismic Velocities before a Tremor of Magnitude 3frac34. Science, 1974, 185, 1047-1049.	12.6	10
52	High-Frequency Ground Motion and Source Characteristics of the 2008 Wenchuan and 2013 Lushan, China, Earthquakes. Pure and Applied Geophysics, 2020, 177, 81-93.	1.9	5
53	A MOVINGâ€TIMEâ€WINDOW SIGNALâ€SPECTRA PROCESS. Geophysics, 1964, 29, 212-220.	2.6	5
54	Comments on some papers concerning amplitudes of seismic surface waves. Journal of Geophysical Research, 1972, 77, 3823-3826.	3.3	4

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55	Upper limit to earthquake size. Nature, 1976, 262, 378-379.	27.8	2
56	Correction to paper by A. McGarr and L. E. Alsop, â€˜Transmission and reflection of Rayleigh waves at vertical boundariesâ€™. Journal of Geophysical Research, 1968, 73, 1511-1511.	3.3	0