Alexander A Gusev

List of Publications by Year
in descending order

56 papers	1,182 citations	430442 18 h-index	414034 32 g-index
57 all docs	57 docs citations	57 times ranked	599 citing authors

#	Article	IF	Citations
1	Estimation of scattering properties of lithosphere of Kamchatka based on Monte-Carlo simulation of record envelope of a near earthquake. Physics of the Earth and Planetary Interiors, 1990, 64, 52-67.	0.7	123
2	Monte-Carlo simulation of record envelope of a near earthquake. Physics of the Earth and Planetary Interiors, 1987, 49, 30-36.	0.7	107
3	Descriptive statistical model of earthquake source radiation and its application to an estimation of short-period strong motion. , 0, .		86
4	Simulated envelopes of non-isotropically scattered body waves as compared to observed ones: another manifestation of fractal heterogeneity. Geophysical Journal International, 1996, 127, 49-60.	1.0	80
5	Vertical profile of turbidity and codaQ. Geophysical Journal International, 1995, 123, 665-672.	1.0	78
6	Properties of scattered elastic waves in the lithosphere of kamchatka: Parameters and temporal variations. Tectonophysics, 1985, 112, 137-153.	0.9	63
7	Source scaling of intermediate-depth Vrancea earthquakes. Geophysical Journal International, 2002, 151, 879-889.	1.0	42
8	Vertical profile of effective turbidity reconstructed from broadening of incoherent body-wave pulses-II.Application to Kamchatka data. Geophysical Journal International, 1999, 136, 309-323.	1.0	40
9	Broadband Kinematic Stochastic Simulation of an Earthquake Source: a Refined Procedure for Application in Seismic Hazard Studies. Pure and Applied Geophysics, 2011, 168, 155-200.	0.8	38
10	High-Frequency Radiation from an Earthquake Fault: A Review and a Hypothesis of Fractal Rupture Front Geometry. Pure and Applied Geophysics, 2013, 170, 65-93.	0.8	35
11	Preliminary analysis of deformation at the Eurasia-Pacific-North America plate junction from GPS data. Geophysical Journal International, 2001, 147, 189-198.	1.0	34
12	Multiasperity fault model and the nature of short-period subsources. Pure and Applied Geophysics, 1989, 130, 635-660.	0.8	33
13	Vertical profile of effective turbidity reconstructed from broadening of incoherent body-wave pulses-I. General approach and the inversion procedure. Geophysical Journal International, 1999, 136, 295-308.	1.0	33
14	Preliminary determination of the interdependence among strong-motion amplitude, earthquake magnitude and hypocentral distance for the Himalayan region. Geophysical Journal International, 2001, 144, 577-596.	1.0	33
15	The evolving interaction of low-frequency earthquakes during transient slip. Science Advances, 2016, 2, e1501616.	4.7	31
16	Long- and short-term earthquake prediction in Kamchatka. Tectonophysics, 1977, 37, 305-321.	0.9	25
17	Deconvolution of squared velocity waveform as applied to the study of a noncoherent short-period radiator in the earthquake source. Pure and Applied Geophysics, 1991, 136, 235-244.	0.8	23
18	Progress of earthquake prediction in Kamchatka. Tectonophysics, 1972, 14, 279-286.	0.9	21

#	Article	IF	Citations
19	Progressive reactivation of the volcanic plumbing system beneath Tolbachik volcano (Kamchatka,) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	21
20	Intermagnitude relationships and asperity statistics. Pure and Applied Geophysics, 1991, 136, 515-527.	0.8	20
21	Temporal structure of the global sequence of volcanic eruptions: Order clustering and intermittent discharge rate. Physics of the Earth and Planetary Interiors, 2008, 166, 203-218.	0.7	18
22	Determination of space-time structure of a deep earthquake source by means of power moments. Tectonophysics, 1988, 152, 319-334.	0.9	17
23	Broadband NDSHA computations and earthquake ground motion observations for the Italian territory. International Journal of Earthquake and Impact Engineering, 2016, 1, 131.	0.3	13
24	Title is missing!. Journal of Seismology, 1997, 1, 341-355.	0.6	12
25	On relations between earthquake population and asperity population on a fault. Tectonophysics, 1992, 211, 85-98.	0.9	11
26	Statistics of the values of a normalized slip in the points of an earthquake fault. Izvestiya, Physics of the Solid Earth, 2011, 47, 176-185.	0.2	11
27	Broadband Simulation of Earthquake Ground Motion by a Spectrum-Matching, Multiple-Pulse Technique. Earthquake Spectra, 2009, 25, 257-276.	1.6	10
28	The ground motion excited by the Olyutorskii earthquake of April 20, 2006 and by its aftershocks based on digital recordings. Journal of Volcanology and Seismology, 2010, 4, 126-138.	0.2	10
29	The impacts of the M W 8.3 Sea of Okhotsk earthquake of May 24, 2013 in Kamchatka and worldwide. Journal of Volcanology and Seismology, 2015, 9, 223-241.	0.2	10
30	Doubly Stochastic Earthquake Source Model: â€œOmega-Squareâ€•Spectrum and Low High-Frequency Directivity Revealed by Numerical Experiments. Pure and Applied Geophysics, 2014, 171, 2581-2599.	0.8	9
31	Earthquake precursors: banished forever?. Eos, 1998, 79, 71-71.	0.1	8
32	Size and duration of the high-frequency radiator in the source of the 2004 December 26 Sumatra earthquake. Geophysical Journal International, 2007, 170, 1119-1128.	1.0	8
33	Baylike and continuous variations of the relative level of the late coda during 24 years of observation on Kamchatka. Journal of Geophysical Research, 1995, 100, 20311-20319.	3.3	7
34	Scaling properties of corner frequencies of Kamchatka earthquakes. Doklady Earth Sciences, 2014, 458, 1112-1115.	0.2	7
35	Shear wave attenuation estimated from the spectral decay rate in the vicinity of the Petropavlovsk station, Kamchatka. Izvestiya, Physics of the Solid Earth, 2016, 52, 503-519.	0.2	7
36	Two dilatancy-based models to explain coda-wave precursors and P/S spectral ratio. Tectonophysics, 1988, 152, 227-237.	0.9	6

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37	Correlation Between Local Slip Rate and Local High-frequency Seismic Radiation in an Earthquake Fault. Pure and Applied Geophysics, 2006, 163, 1305-1325.	0.8	6
38	Source Spectra of Near Kamchatka Earthquakes: Recovering them from S-Wave Spectra, and Determination of Scaling for Three Corner Frequencies. Pure and Applied Geophysics, 2016, 173, 1539-1557.	0.8	6
39	On the reality of the 56-year cycle and the increased probability of large earthquakes for Petropavlovsk-Kamchatskii during the period 2008â€“2011 according to lunar cyclicity. Journal of Volcanology and Seismology, 2008, 2, 424-434.	0.2	5
40	The fractal structure of the sequence of volcanic eruptions worldwide: Order clustering of events and episodic discharge of material. Journal of Volcanology and Seismology, 2014, 8, 34-53.	0.2	5
41	Determination of corner frequencies of source spectra for subduction earthquakes in Avacha Gulf (Kamchatka). Russian Geology and Geophysics, 2017, 58, 844-854.	0.3	4
42	The earthquake spectral anomaly estimate by the MLH to mB relation and its possible application to earthquake prediction. Physics of the Earth and Planetary Interiors, 1979, 18, 326-329.	0.7	3
43	Inversion of the high-frequency source radiation of M6.8 Avachinsky Gulf, Kamchatka, earthquake using empirical and theoretical envelope Green functions. Earth, Planets and Space, 2004, 56, 921-925.	0.9	3
44	Modeling of the ground motion for the Petropavlovsk earthquake of November 24, 1971 (M = 7.6). Izvestiya, Physics of the Solid Earth, 2009, 45, 395-405.	0.2	3
45	Approximate Stochastic Self-Similarity of Envelopes of High-Frequency Teleseismic P-Waves from Large Earthquakes. Pure and Applied Geophysics, 2010, 167, 1343-1363.	0.8	3
46	Random kinematics of unbounded earthquake rupture propagation simulated using a cellular model. Geophysical Journal International, 2018, 215, 924-941.	1.0	3
47	Low-Frequency Seismic Ground Motion At The Pier Positions Of The Planned Messina Straits Bridge For A Realistic Earthquake Scenario. AIP Conference Proceedings, 2008, , .	0.3	2
48	The geometry and temporal structure of a high frequency source: The Olyutorskii earthquake of April 20, 2006. Journal of Volcanology and Seismology, 2010, 4, 116-125.	0.2	2
49	A fractal earthquake source with a slip zone generates acceleration time histories with flat spectra. Doklady Earth Sciences, 2013, 448, 211-213.	0.2	2
50	Correlative relationships between tsunami height and strong ground motion parameters: Japanese earthquakes. Journal of Volcanology and Seismology, 2015, 9, 387-401.	0.2	2
51	On Scaling of Earthquake Riseâ€Time Estimates. Bulletin of the Seismological Society of America, 2019, 109, 2741-2745.	1.1	2
52	Regional long-period magnitude scales and their capabilities for tsunami warning. Izvestiya - Atmospheric and Oceanic Physics, 2016, 52, 797-805.	0.2	1
53	Reply [to Comment on Earthquake precursors: Banished forever?] Comment: Unpredictability of earthquakes-Truth or fiction?. Eos, 1998, 79, 373-373.	0.1	0
54	Characteristic scale of heterogeneity of seismically active fault and its manifestation in scaling of earthquake source spectra. Doklady Earth Sciences, 2016, 470, 1104-1108.	0.2	0

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55	The character of scaling earthquake source spectra for Kamchatka in the 3.5â€“6.5 magnitude range. Doklady Earth Sciences, 2017, 472, 211-214.	0.2	0
56	A regional surface wave magnitude scale for the earthquakes of Russiaâ€™s Far East. Izvestiya, Physics of the Solid Earth, 2017, 53, 58-68.	0.2	0