

Vladimir Kostoglodov

List of Publications by Year in descending order

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87
papers

4,291
citations

76326

40
h-index

114465

63
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90
all docs

90
docs citations

90
times ranked

2406
citing authors

#	ARTICLE	IF	CITATIONS
1	Interseismic coupling along the Mexican subduction zone seen by InSAR and GNSS. <i>Earth and Planetary Science Letters</i> , 2022, 586, 117534.	4.4	9
2	Short-term interaction between silent and devastating earthquakes in Mexico. <i>Nature Communications</i> , 2021, 12, 2171.	12.8	22
3	Adjoint slip inversion under a constrained optimization framework: revisiting the 2006 Guerrero slow slip event. <i>Geophysical Journal International</i> , 2021, 226, 1187-1205.	2.4	1
4	Active 650-km Long Fault System and Xolapa Sliver in Southern Mexico. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	8
5	Scaling of Peak Ground Displacement with Seismic Moment above the Mexican Subduction Thrust. <i>Seismological Research Letters</i> , 2020, 91, 956-966.	1.9	2
6	Independent Component Analysis and Parametric Approach for Source Separation in InSAR Time Series at Regional Scale: Application to the 2017-2018 Slow Slip Event in Guerrero (Mexico). <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018187.	3.4	31
7	GPS constraints on deformation in northern Central America from 1999 to 2017, Part 2: Block rotations and fault slip rates, fault locking and distributed deformation. <i>Geophysical Journal International</i> , 2019, 218, 729-754.	2.4	18
8	Characteristic Tectonic Tremor Activity Observed Over Multiple Slow Slip Cycles in the Mexican Subduction Zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 599-608.	3.4	22
9	Activity of crustal faults and the Xolapa sliver motion in Guerrero-Oaxaca forearc of Mexico, from seismic data. <i>Earth, Planets and Space</i> , 2019, 71, .	2.5	11
10	Spatiotemporal Variations in Slow Earthquakes Along the Mexican Subduction Zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 1559-1575.	3.4	27
11	A Seismogeodetic Amphibious Network in the Guerrero Seismic Gap, Mexico. <i>Seismological Research Letters</i> , 2018, 89, 1435-1449.	1.9	18
12	Relating the long-term and short-term vertical deformation across a transect of the forearc in the central Mexican subduction zone. , 2018, 14, 419-439.		18
13	GPS constraints on deformation in northern Central America from 1999 to 2017, Part 1 - Time-dependent modelling of large regional earthquakes and their post-seismic effects. <i>Geophysical Journal International</i> , 2018, 214, 2177-2194.	2.4	20
14	Application of multiple proxies in Mexican tropical coasts to prove evidence of tsunami deposits. <i>Geofisica International</i> , 2018, 57, .	0.2	0
15	Seismicity rate increases associated with slow slip episodes prior to the 2012 Mw 7.4 Ometepec earthquake. <i>Earth and Planetary Science Letters</i> , 2017, 464, 35-45.	4.4	12
16	A review of the geodynamic evolution of flat slab subduction in Mexico, Peru, and Chile. <i>Tectonophysics</i> , 2017, 695, 27-52.	2.2	94
17	A geodetic matched filter search for slow slip with application to the Mexico subduction zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 10,498.	3.4	47
18	GPS deformation related to the $M_w 7.3$, 2014, Papanoa earthquake (Mexico) reveals the aseismic behavior of the Guerrero seismic gap. <i>Geophysical Research Letters</i> , 2017, 44, 6039-6047.	4.0	17

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19	A Simplified Method to Invert Slow Slip Events: Examples for the 2002, 2006 and 2014 events in Guerrero, Mexico. <i>Geofisica International</i> , 2017, 56, .	0.2	0
20	The evolving interaction of low-frequency earthquakes during transient slip. <i>Science Advances</i> , 2016, 2, e1501616.	10.3	31
21	Slow Slip History for the MEXICO Subduction Zone: 2005 Through 2011. <i>Pure and Applied Geophysics</i> , 2016, 173, 3445-3465.	1.9	46
22	Lateral Variations of Interplate Coupling along the Mexican Subduction Interface: Relationships with Long-Term Morphology and Fault Zone Mechanical Properties. <i>Pure and Applied Geophysics</i> , 2016, 173, 3467-3486.	1.9	20
23	Repeating seismicity in the shallow crust modulated by transient stress perturbations. <i>Tectonophysics</i> , 2016, 687, 105-110.	2.2	9
24	Triggering of the 2014 Mw7.3 Papanoa earthquake by a slow slip event in Guerrero, Mexico. <i>Nature Geoscience</i> , 2016, 9, 829-833.	12.9	156
25	Comparative study of tectonic tremor locations: Characterization of slow earthquakes in Guerrero, Mexico. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5136-5151.	3.4	29
26	Active Crustal Faults in the Forearc Region, Guerrero Sector of the Mexican Subduction Zone. <i>Pure and Applied Geophysics</i> , 2016, 173, 3419-3443.	1.9	23
27	Active Crustal Faults in the Forearc Region, Guerrero Sector of the Mexican Subduction Zone. <i>Pageoph Topical Volumes</i> , 2016, , 3419-3443.	0.2	0
28	Uncovering the geodetic signature of silent slip through repeating earthquakes. <i>Geophysical Research Letters</i> , 2015, 42, 2774-2779.	4.0	86
29	Along-fault pore-pressure evolution during a slow-slip event in Guerrero, Mexico. <i>Earth and Planetary Science Letters</i> , 2015, 413, 135-143.	4.4	80
30	Nonvolcanic tremor locations and mechanisms in Guerrero, Mexico, from energy-based and particle motion polarization analysis. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 275-289.	3.4	19
31	Slow Slip History for the MEXICO Subduction Zone: 2005 Through 2011. <i>Pageoph Topical Volumes</i> , 2015, , 3445-3465.	0.2	3
32	Lateral Variations of Interplate Coupling along the Mexican Subduction Interface: Relationships with Long-Term Morphology and Fault Zone Mechanical Properties. <i>Pageoph Topical Volumes</i> , 2015, , 3467-3486.	0.2	2
33	GPS constraints on the 2011-2012 Oaxaca slow slip event that preceded the 2012 March 20 Ometepec earthquake, southern Mexico. <i>Geophysical Journal International</i> , 2014, 197, 1593-1607.	2.4	56
34	Seismic velocity changes, strain rate and non-volcanic tremors during the 2009-2010 slow slip event in Guerrero, Mexico. <i>Geophysical Journal International</i> , 2014, 196, 447-460.	2.4	31
35	GPS constraints on the Mw = 7.5 Ometepec earthquake sequence, southern Mexico: coseismic and post-seismic deformation. <i>Geophysical Journal International</i> , 2014, 199, 200-218.	2.4	23
36	Using systematically characterized low-frequency earthquakes as a fault probe in Guerrero, Mexico. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 7686-7700.	3.4	89

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37	Slow slip event in the Mexican subduction zone: Evidence of shallower slip in the Guerrero seismic gap for the 2006 event revealed by the joint inversion of InSAR and GPS data. <i>Earth and Planetary Science Letters</i> , 2013, 367, 52-60.	4.4	53
38	Low-frequency earthquakes in the Mexican Sweet Spot. <i>Geophysical Research Letters</i> , 2013, 40, 2661-2666.	4.0	73
39	Extreme wave deposits on the Pacific coast of Mexico: Tsunamis or storms? A multi-proxy approach. <i>Geomorphology</i> , 2012, 139-140, 360-371.	2.6	94
40	Temporal variations of non-volcanic tremor (NVT) locations in the Mexican subduction zone: Finding the NVT sweet spot. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	66
41	Slow slip events and strain accumulation in the Guerrero gap, Mexico. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	146
42	Triggering of tremors and slow slip event in Guerrero, Mexico, by the 2010 Mw 8.8 Maule, Chile, earthquake. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	77
43	Fault kinematics in northern Central America and coupling along the subduction interface of the Cocos Plate, from GPS data in Chiapas (Mexico), Guatemala and El Salvador. <i>Geophysical Journal International</i> , 2012, 189, 1223-1236.	2.4	72
44	Seismic evidence of nonlinear crustal deformation during a large slow slip event in Mexico. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	107
45	Two successive slow slip events evidenced in 2009-2010 by a dense GPS network in Guerrero, Mexico. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	21
46	Spatial and temporal evolution of a long term slow slip event: the 2006 Guerrero Slow Slip Event. <i>Geophysical Journal International</i> , 2011, 184, 816-828.	2.4	103
47	Overview of Recent Coastal Tectonic Deformation in the Mexican Subduction Zone. <i>Pure and Applied Geophysics</i> , 2011, 168, 1415-1433.	1.9	41
48	Slow slip events in Mexico revised from the processing of 11 year GPS observations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	79
49	The 2006 slow slip event and nonvolcanic tremor in the Mexican subduction zone. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	88
50	Anticipating the Next Large Silent Earthquake in Mexico. <i>Eos</i> , 2009, 90, 181-182.	0.1	23
51	Late Holocene tectonic land-level changes and tsunamis at Mitla lagoon, Guerrero, Mexico. <i>Geofisica International</i> , 2009, 48, 195-209.	0.2	24
52	Nonvolcanic tremor observed in the Mexican subduction zone. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	140
53	Sedimentary record of late-Holocene relative sea-level change and tectonic deformation from the Guerrero Seismic Gap, Mexican Pacific Coast. <i>Holocene</i> , 2007, 17, 1211-1220.	1.7	41
54	The 2006 aseismic slow slip event in Guerrero, Mexico: New results from GPS. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	66

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55	Intraslab seismicity and thermal stress in the subducted Cocos plate beneath central Mexico. <i>Tectonophysics</i> , 2006, 420, 389-408.	2.2	29
56	Thermal models, magma transport, and velocity anomaly estimation beneath southern Kamchatka. , 2005, , .		12
57	Propagation of the 2001â€“2002 silent earthquake and interplate coupling in the Oaxaca subduction zone, Mexico. <i>Earth, Planets and Space</i> , 2005, 57, 973-985.	2.5	58
58	Tectonic evolution of the Tehuantepec Ridge. <i>Earth and Planetary Science Letters</i> , 2005, 238, 64-77.	4.4	45
59	Thermo-mechanical model of the mantle wedge in Central Mexican subduction zone and a blob tracing approach for the magma transport. <i>Physics of the Earth and Planetary Interiors</i> , 2005, 149, 165-186.	1.9	64
60	Thermal structure, coupling and metamorphism in the Mexican subduction zone beneath Guerrero. <i>Geophysical Journal International</i> , 2004, 158, 775-784.	2.4	64
61	Crustal deformation measurements in Guerrero, Mexico. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	90
62	Holocene-emerged notches and tectonic uplift along the Jalisco coast, Southwest Mexico. <i>Geomorphology</i> , 2004, 58, 291-304.	2.6	37
63	Prevention project: a complex geophysical observatory in Mexico as a test facility for lithosphereâ€“atmosphereâ€“ionosphere coupling models. <i>Physics and Chemistry of the Earth</i> , 2004, 29, 657-662.	2.9	2
64	Interplate coupling and a recent aseismic slow slip event in the Guerrero seismic gap of the Mexican subduction zone, as deduced from GPS data inversion using a Bayesian information criterion. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 146, 513-530.	1.9	59
65	A large silent earthquake in the Guerrero seismic gap, Mexico. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	232
66	Sediment fill in the Middle America Trench inferred from gravity anomalies. <i>Geofisica International</i> , 2003, 42, 603-612.	0.2	27
67	Thermal models of the Mexico subduction zone: Implications for the megathrust seismogenic zone. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 15-1-ETG 15-13.	3.3	84
68	Transient fault slip in Guerrero, southern Mexico. <i>Geophysical Research Letters</i> , 2001, 28, 3753-3756.	4.0	172
69	Deformation in the Guerrero seismic gap, Mexico, from leveling observations. <i>Journal of Geodesy</i> , 2001, 75, 19-32.	3.6	18
70	The Energy Partitioning and the Diffusive Character of the Seismic Coda. <i>Bulletin of the Seismological Society of America</i> , 2000, 90, 655-665.	2.3	80
71	Source Time Function and Duration of Mexican Earthquakes. <i>Bulletin of the Seismological Society of America</i> , 2000, 90, 468-482.	2.3	25
72	The Oaxaca Earthquake of 30 September 1999 (Mw = 7.5): A Normal-faulting Event in the Subducted Cocos Plate. <i>Seismological Research Letters</i> , 2000, 71, 67-78.	1.9	48

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73	New constraints on the uplift of October 9, 1995 Jalisco-Colima earthquake ($M_w > 8$) based on the analysis of tsunami records at Manzanillo and Navidad, Mexico. <i>Geofisica Internacional</i> , 2000, 39, 349-357.	0.2	17
74	Source areas of the Acapulco-San Marcos, Mexico earthquakes of 1962 ($M 7.1; 7.0$) and 1957 ($M 7.7$), as constrained by tsunami and uplift records. <i>Geofisica Internacional</i> , 2000, 39, 337-348.	0.2	23
75	Tomographic imaging of the P-wave velocity structure beneath the Kamchatka peninsula. <i>Geophysical Journal International</i> , 1999, 137, 269.	2.4	91
76	Structure of the southern Jalisco subduction zone, Mexico, as inferred from gravity and seismicity. <i>Geofisica Internacional</i> , 1999, 38, 127-136.	0.2	32
77	Rupture length of the October 9, 1995 Colima-Jalisco Earthquake ($M_w 8$) estimated from tsunami data. <i>Geophysical Research Letters</i> , 1998, 25, 2857-2860.	4.0	28
78	Seismicity and structure of the Kamchatka Subduction Zone. <i>Journal of Geophysical Research</i> , 1997, 102, 17883-17898.	3.3	173
79	Implications of the October 1995 Colima-Jalisco Mexico earthquakes on the Rivera-North America Euler vector. <i>Geophysical Research Letters</i> , 1997, 24, 485-488.	4.0	12
80	The October 9, 1995 Colima-Jalisco, Mexico Earthquake ($M_w 8$): An aftershock study and a comparison of this earthquake with those of 1932. <i>Geophysical Research Letters</i> , 1997, 24, 2223-2226.	4.0	71
81	Maximum depth of seismicity and thermal parameter of the subducting slab: general empirical relation and its application. <i>Tectonophysics</i> , 1997, 277, 165-187.	2.2	51
82	Gravity and seismicity over the Guerrero Seismic Gap, Mexico. <i>Geophysical Research Letters</i> , 1996, 23, 3385-3388.	4.0	47
83	Maximum seismic depth versus thermal parameter of subducted slab: application to deep earthquakes in Chile and Bolivia.. <i>Geofisica Internacional</i> , 1996, 35, 41-50.	0.2	6
84	Seismotectonic constraints on the convergence rate between the Rivera and North American plates. <i>Journal of Geophysical Research</i> , 1995, 100, 17977-17989.	3.3	95
85	Relationship between subduction and seismicity in the Mexican part of the Middle America Trench. <i>Journal of Geophysical Research</i> , 1994, 99, 729-742.	3.3	58
86	A double-planed seismic zone in Kamchatka from local and teleseismic data. <i>Geophysical Research Letters</i> , 1994, 21, 1675-1678.	4.0	23
87	Isostasy of fracture zones in the Atlantic Ocean. <i>Journal of Geophysical Research</i> , 1981, 86, 9248-9258.	3.3	21