Rob Govers

List of Publications by Year
in descending order

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68	4,012	172457	118850
papers	citations	29 h-index	62 g-index

96	96	96	3945
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamics of the African Plate 75ÂMa: From Plate Kinematic Reconstructions to Intraplate Paleoâ€Stresses. Tectonics, 2021, 40, e2020TC006355.	2.8	2
2	Exhumation of the Coastal Metamorphic Belt Above the Subductionâ€toâ€Transform Transition, in the Southeast Caribbean Plate Corner. Tectonics, 2021, 40, e2020TC006414.	2.8	4
3	Locating Fully Locked Asperities Along the South America Subduction Megathrust: A New Physical Interseismic Inversion Approach in a Bayesian Framework. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009063.	2.5	16
4	The Kefalonia Transform Fault: A STEP fault in the making. Tectonophysics, 2020, 787, 228471.	2.2	9
5	Stress evolution during the megathrust earthquake cycle and its role in triggering extensional deformation in subduction zones. Earth and Planetary Science Letters, 2020, 544, 116379.	4.4	4
6	New analogue materials for nonlinear lithosphere rheology, with an application to slab break-off. Tectonophysics, 2019, 756, 73-96.	2.2	13
7	On the forces that drive and resist deformation of the south-central Mediterranean: a mechanical model study. Geophysical Journal International, 2018, 214, 876-894.	2.4	10
8	The Geodetic Signature of the Earthquake Cycle at Subduction Zones: Model Constraints on the Deep Processes. Reviews of Geophysics, 2018, 56, 6-49.	23.0	40
9	The Accumulation of Slip Deficit in Subduction Zones in the Absence of Mechanical Coupling: Implications for the Behavior of Megathrust Earthquakes. Journal of Geophysical Research: Solid Earth, 2018, 123, 8260-8278.	3.4	28
10	Morphological Expressions of Crater Infill Collapse: Model Simulations of Chaotic Terrains on Mars. Geochemistry, Geophysics, Geosystems, 2017, 18, 3687-3699.	2.5	0
11	Active faults in the Anatolian-Aegean plate boundary region with Nubia. Turkish Journal of Earth Sciences, 2017, 26, 30-56.	1.0	17
12	Impact of rock salt creep law choice on subsidence calculations for hydrocarbon reservoirs overlain by evaporite caprocks. Journal of Geophysical Research: Solid Earth, 2016, 121, 4249-4267.	3.4	21
13	Is uplift of volcano clusters in the Tohoku Volcanic Arc, Japan, driven by magma accumulation in hot zones? A geodynamic modeling study. Journal of Geophysical Research: Solid Earth, 2016, 121, 4780-4796.	3.4	12
14	Signature of slab fragmentation beneath Anatolia from full-waveform tomography. Earth and Planetary Science Letters, 2016, 450, 10-19.	4.4	54
15	The Ionian and Alfeoâ€“Etna fault zones: New segments of an evolving plate boundary in the central Mediterranean Sea?. Tectonophysics, 2016, 675, 69-90.	2.2	93
16	Origin of circular collapsed landforms in the Chryse region of Mars. Icarus, 2016, 265, 70-78.	2.5	3
17	The role of passive margins on the evolution of Subductionâ€Transform Edge Propagators (STEPs). Journal of Geophysical Research: Solid Earth, 2015, 120, 7203-7230.	3.4	25
18	Postseismic GRACE and GPS observations indicate a rheology contrast above and below the Sumatra slab. Journal of Geophysical Research: Solid Earth, 2015, 120, 5343-5361.	3.4	48

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19	Evolution of the Late Miocene Mediterraneanâ€“Atlantic gateways and their impact on regional and global environmental change. Earth-Science Reviews, 2015, 150, 365-392.	9.1	171
20	Ground motions induced by a producing hydrocarbon reservoir that is overlain by a viscoelastic rocksalt layer: a numerical model. Geophysical Journal International, 2015, 203, 198-212.	2.4	14
21	A single cause for uplift of the Central and Eastern Anatolian plateau?. Tectonophysics, 2014, 637, 116-136.	2.2	89
22	What drives microplate motion and deformation in the northeastern Caribbean plate boundary region?. Tectonics, 2014, 33, 850-873.	2.8	23
23	The Messinian Salinity Crisis: Past and future of a great challenge for marine sciences. Marine Geology, 2014, 352, 25-58.	2.1	436
24	Pressurized groundwater outflow experiments and numerical modeling for outflow channels on Mars. Journal of Geophysical Research E: Planets, 2014, 119, 2668-2693.	3.6	19
25	The Plinyâ€“Strabo trench region: A large shear zone resulting from slab tearing. Earth and Planetary Science Letters, 2013, 375, 188-195.	4.4	55
26	Tethyan collision forces and the stress field of the Eurasian Plate. Geophysical Journal International, 2013, 195, 1-15.	2.4	18
27	Tectonic evolution and mantle structure of the Caribbean. Journal of Geophysical Research: Solid Earth, 2013, 118, 3019-3036.	3.4	93
28	The role of viscous magma mush spreading in volcanic flank motion at KÄ«lauea Volcano, Hawaiâ€˜i. Journal of Geophysical Research: Solid Earth, 2013, 118, 2474-2487.	3.4	24
29	Lithosphere-mantle coupling and the dynamics of the Eurasian Plate. Geophysical Journal International, 2012, 189, 1253-1276.	2.4	23
30	Subduction initiation along the inherited weakness zone at the edge of a slab: Insights from numerical models. Geophysical Journal International, 2011, 184, 991-1008.	2.4	67
31	Switching between alternative responses of the lithosphere to continental collision. Geophysical Journal International, 2011, 187, 1151-1174.	2.4	22
32	Driving Earth's surface motions. Nature, 2010, 465, 559-559.	27.8	0
33	The Caribbean plate: Pulled, pushed, or dragged?. Journal of Geophysical Research, 2010, 115, .	3.3	20
34	A lithosphereâ€dynamics constraint on mantle flow: Analysis of the Eurasian plate. Geophysical Research Letters, 2010, 37, .	4.0	13
35	Development of the Eastern California Shear Zone â€” Walker Lane belt: The effects of microplate motion and pre-existing weakness in the Basin and Range. Tectonophysics, 2010, 485, 78-84.	2.2	13
36	Geodynamics of collision and collapse at the Africaâ€“Arabiaâ€“Eurasia subduction zone â€“ an introduction. Geological Society Special Publication, 2009, 311, 1-7.	1.3	6

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37	Choking the Mediterranean to dehydration: The Messinian salinity crisis. Geology, 2009, 37, 167-170.	4.4	65
38	Relating viscosities from postseismic relaxation to a realistic viscosity structure for the lithosphere. Geophysical Journal International, 2009, 176, 614-624.	2.4	29
39	Regional isostatic response to Messinian Salinity Crisis events. Tectonophysics, 2009, 463, 109-129.	2.2	74
40	Foreâ€arc motion and Cocos Ridge collision in Central America. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	155
41	Flexure due to the Messinianâ€Pontian sea level drop in the Black Sea. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	20
42	On the plate boundary forces that drive and resist Baja California motion. Geology, 2009, 37, 359-362.	4.4	29
43	Continental Collision and the STEP-wise Evolution of Convergent Plate Boundaries: From Structure to Dynamics. Frontiers in Earth Sciences, 2009, , 47-59.	0.1	32
44	Dynamics of continental collision: influence of the plate contact. Geophysical Journal International, 2008, 174, 1101-1120.	2.4	34
45	Nature of the plate contact and subduction zones diversity. Earth and Planetary Science Letters, 2008, 271, 245-253.	4.4	23
46	Numerical comparison of different convergent plate contacts: subduction channel and subduction fault. Geophysical Journal International, 2007, 171, 435-450.	2.4	31
47	Strain accumulation across the Carrizo segment of the San Andreas Fault, California: Impact of laterally varying crustal properties. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	65
48	Lithosphere tearing at STEP faults: response to edges of subduction zones. Earth and Planetary Science Letters, 2005, 236, 505-523.	4.4	542
49	The relative motion between Africa and Eurasia as derived from ITRF2000 and GPS data. Geophysical Research Letters, 2003, 30, .	4.0	116
50	Two-dimensional simulations of surface deformation caused by slab detachment. Tectonophysics, 2002, 354, 195-210.	2.2	143
51	Three-dimensional thermal modeling of the California upper mantle: a slab window vs. stalled slab. Earth and Planetary Science Letters, 2001, 186, 175-186.	4.4	23
52	On the dynamics of the Juan de Fuca plate. Earth and Planetary Science Letters, 2001, 189, 115-131.	4.4	45
53	A modelling study of vertical surface displacements at convergent plate margins. Geophysical Journal International, 2001, 147, 415-427.	2.4	61
54	The effect of plate stresses and shallow mantle temperatures on tectonics of northwestern Europe. Global and Planetary Change, 2000, 27, 23-38.	3.5	41

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55	Shallow mantle temperatures under Europe fromPandSwave tomography. Journal of Geophysical Research, 2000, 105, 11153-11169.	3.3	485
56	Active deformation in eastern Indonesia and the Philippines from GPS and seismicity data. Journal of Geophysical Research, 2000, 105, 663-680.	3.3	117
57	Some remarks on the relation between vertical motions of the lithosphere during extension and the necking depth parameter inferred from kinematic modeling studies. Journal of Geophysical Research, 1999, 104, 23245-23253.	3.3	10
58	Ephemeral crustal thickening at a triple junction:The Mendocino crustal conveyor. Geology, 1999, 27, 127.	4.4	62
59	Plate boundary deformation between the Pacific and North America in the Explorer region. Tectonophysics, 1998, 293, 225-238.	2.2	19
60	The role of subduction in the evolution of the Apennines foreland basin. Tectonophysics, 1998, 296, 249-268.	2.2	28
61	Forces controlling the present-day state of stress in the Andes. Earth and Planetary Science Letters, 1997, 148, 157-170.	4.4	41
62	Three-dimensional thermal modeling for the Mendocino Triple Junction area. Earth and Planetary Science Letters, 1997, 148, 45-57.	4.4	23
63	Lithospheric structure along the Queen Charlotte margin in western Canada: constraints from flexural modeling. Geo-Marine Letters, 1997, 17, 94-99.	1.1	19
64	Mixing fluids and solids. Nature, 1995, 376, 645-645.	27.8	0
65	Extension of stable continental lithosphere and the initiation of lithospheric scale faults. Tectonics, 1995, 14, 1041-1055.	2.8	47
66	Initiation of asymmetric extension in continental lithosphere. Tectonophysics, 1993, 223, 75-96.	2.2	74
67	Stress magnitude estimates from earthquakes in oceanic plate interiors. Journal of Geophysical Research, 1992, 97, 11749-11759.	3.3	29
68	Tectonic Context and Possible Triggering of the 2019â€“2020 Puerto Rico Earthquake Sequence. Seismological Research Letters, 0, , .	1.9	4