

# Russell N Pysklywec

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,644  
citations

331670

21  
h-index

289244

40  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1424  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mantle lithosphere delamination driving plateau uplift and synconvergent extension in eastern Anatolia. <i>Geology</i> , 2008, 36, 723.	4.4	183
2	Near-surface diagnostics of dripping or delaminating lithosphere. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	150
3	Mantle flow, dynamic topography, and rift-flank uplift of Arabia. <i>Geology</i> , 2003, 31, 901.	4.4	124
4	Drip tectonics and the enigmatic uplift of the Central Anatolian Plateau. <i>Nature Communications</i> , 2017, 8, 1538.	12.8	99
5	Lithospheric deformation during the early stages of continental collision: Numerical experiments and comparison with South Island, New Zealand. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 3-1-ETG 3-19.	3.3	89
6	Modeling the behavior of the continental mantle lithosphere during plate convergence. <i>Geology</i> , 2000, 28, 655.	4.4	85
7	Intraplate tectonics: feedback between radioactive thermal weakening and crustal deformation driven by mantle lithosphere instabilities. <i>Earth and Planetary Science Letters</i> , 2004, 221, 275-292.	4.4	83
8	Surface erosion control on the evolution of the deep lithosphere. <i>Geology</i> , 2006, 34, 225.	4.4	82
9	Mantle flow mechanisms for the large-scale subsidence of continental interiors. <i>Geology</i> , 1998, 26, 687.	4.4	73
10	Geodynamic models of mature continental collision: Evolution of an orogen from lithospheric subduction to continental retreat/delamination. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	67
11	Lasting mantle scars lead to perennial plate tectonics. <i>Nature Communications</i> , 2016, 7, 11834.	12.8	58
12	Coupled crust-mantle dynamics and intraplate tectonics: Two-dimensional numerical and three-dimensional analogue modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	2.5	54
13	The surface tectonics of mantle lithosphere delamination following ocean lithosphere subduction: Insights from physical-scaled analogue experiments. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	45
14	Segmentation of Rifts Through Structural Inheritance: Creation of the Davis Strait. <i>Tectonics</i> , 2019, 38, 2411-2430.	2.8	41
15	Postcollisional lithospheric evolution of the Southeast Carpathians: Comparison of geodynamical models and observations. <i>Tectonics</i> , 2016, 35, 1205-1224.	2.8	39
16	Geodynamic models of Archean continental collision and the formation of mantle lithosphere keels. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	29
17	Insights from geodynamical modeling on possible fates of continental mantle lithosphere: collision, removal, and overturn This article is one of a series of papers published in this Special Issue on the theme "Lithoprobe" parameters, processes, and the evolution of a continent. <i>Canadian Journal of Earth Sciences</i> , 2010, 47, 541-563.	1.3	29
18	Small-scale convection at a continental backarc to craton transition: Application to the southern Canadian Cordillera. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	29

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19	Present-day dynamic and residual topography in Central Anatolia. <i>Geophysical Journal International</i> , 2016, 206, 1515-1525.	2.4	26
20	Inverse Problems in Geodynamics Using Machine Learning Algorithms. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 296-310.	3.4	26
21	Long Wavelength Progressive Plateau Uplift in Eastern Anatolia Since 20 Ma: Implications for the Role of Slab Peel-Back and Break-Off. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008726.	2.5	25
22	Time-dependent surface topography in a coupled crust-mantle convection model. <i>Geophysical Journal International</i> , 2003, 154, 268-278.	2.4	21
23	Anomalous uplift of the Apennines and subsidence of the Adriatic: The result of active mantle flow?. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	19
24	Anomalous topography in the western Atlantic caused by edge-driven convection. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	18
25	Multidimensional Geodynamic Modeling in the Southeast Carpathians: Upper Mantle Flow-Induced Surface Topography Anomalies. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3134-3149.	2.5	16
26	Pre-collisional extension of microcontinental terranes by a subduction pulley. <i>Nature Geoscience</i> , 2021, 14, 443-450.	12.9	16
27	Intraplate orogenesis within accreted and scarred lithosphere: Example of the Eurekan Orogeny, Ellesmere Island. <i>Tectonophysics</i> , 2015, 664, 202-213.	2.2	14
28	Mantle Lithosphere Rheology, Vertical Tectonics, and the Exhumation of (U)HP Rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 1824-1839.	3.4	13
29	Penetrative Convection in Super-Earth Planets: Consequences of MgSiO <sub>3</sub> Postperovskite Dissociation Transition and Implications for Super-Earth GJ 876 d. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2162-2177.	3.6	11
30	Role of mantle flow at the North Fiji Basin: Insights from anomalous topography. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	10
31	Influence of sediment deposition on deep lithospheric tectonics. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	10
32	Inherited structure and coupled crust-mantle lithosphere evolution: Numerical models of Central Australia. <i>Geophysical Research Letters</i> , 2016, 43, 4962-4970.	4.0	10
33	The Influence of Lithospheric Mantle Scars and Rheology on Intraplate Deformation and Orogenesis: Insights From Tectonic Analog Models. <i>Tectonics</i> , 2020, 39, e2019TC005841.	2.8	8
34	Symptomatic lithospheric drips triggering fast topographic rise and crustal deformation in the Central Andes. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	6.8	7
35	Spawning superplumes from the midmantle: The impact of spin transitions in the mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4051-4063.	2.5	6
36	Influence of viscosity pressure dependence on deep lithospheric tectonics during continental collision. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3264-3273.	3.4	5

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37	Terrane geodynamics: Evolution on the subduction conveyor from pre-collision to post-collision and implications on Tethyan orogeny. <i>Gondwana Research</i> , 2022, 105, 399-415.	6.0	5
38	The influence of phase boundary deflection on velocity anomalies of stagnant slabs in the transition zone. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	3
39	Toward a Unified Model for the Thermal State of the Planetary Mantle: Estimations From Mean Field Deep Learning. <i>Earth and Space Science</i> , 2020, 7, e2019EA000881.	2.6	3
40	Geodynamics of East Anatoliaâ€Ccaucasus Domain: Inferences From 3D Thermoâ€Cmechanical Models, Residual Topography, and Admittance Function Analyses. <i>Tectonics</i> , 2021, 40, .	2.8	3
41	Mantle flow modeling of the anomalous subsidence of the Silurian Baltic Basin. <i>Geophysical Research Letters</i> , 2002, 29, 20-1-20-4.	4.0	2
42	Focused Penetrative Plumes: A Possible Consequence of the Dissociation Transition of Postâ€Cperovskite at $\sim 140.9$ â€CPa in Massive Rocky Superâ€CEarths. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009910.	2.5	2