

Yuri Podladchikov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

163 papers	6,477 citations	44 h-index	72 g-index
232 ext. papers	7,212 ext. citations	4 avg, IF	6.13 L-index

#	Paper	IF	Citations
163	Thermolab: A Thermodynamics Laboratory for Nonlinear Transport Processes in Open Systems. <i>Geochemistry, Geophysics, Geosystems</i> , 2022 , 23,	3.6	1
162	An efficient two-layer landslide-tsunami numerical model: effects of momentum transfer validated with physical experiments of waves generated by granular landslides. <i>Natural Hazards and Earth System Sciences</i> , 2021 , 21, 1229-1245	3.9	1
161	Achieving complete reaction while the solid volume increases: A numerical model applied to serpentinisation. <i>Earth and Planetary Science Letters</i> , 2021 , 563, 116859	5.3	6
160	Resolving Wave Propagation in Anisotropic Poroelastic Media Using Graphical Processing Units (GPUs). <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021175	3.6	3
159	Stability of discrete schemes of Biot's poroelastic equations. <i>Geophysical Journal International</i> , 2021 , 225, 354-377	2.6	4
158	An exact solution to the Lamé problem for a hollow sphere for new types of nonlinear elastic materials in the case of large deformations. <i>European Journal of Mechanics, A/Solids</i> , 2021 , 90, 104345	3.7	2
157	An explicit GPU-based material point method solver for elastoplastic problems (ep2-3De v1.0). <i>Geoscientific Model Development</i> , 2021 , 14, 7749-7774	6.3	0
156	Modelling thermomechanical ice deformation using an implicit pseudo-transient method (FastICE v1.0) based on graphical processing units (GPUs). <i>Geoscientific Model Development</i> , 2020 , 13, 955-976	6.3	5
155	Instantaneous rock transformations in the deep crust driven by reactive fluid flow. <i>Nature Geoscience</i> , 2020 , 13, 307-311	18.3	27
154	Sustainable densification of the deep crust. <i>Geology</i> , 2020 , 48, 673-677	5	12
153	A fast and efficient MATLAB-based MPM solver: fMPMM-solver v1.1. <i>Geoscientific Model Development</i> , 2020 , 13, 6265-6284	6.3	2
152	Calculating pressure with elastic geobarometry: A comparison of different elastic solutions with application to a calc-silicate gneiss from the Rhodope Metamorphic Province. <i>Lithos</i> , 2020 , 378-379, 105803	2.9	6
151	2D Hydro-Mechanical-Chemical Modeling of (De)hydration Reactions in Deforming Heterogeneous Rock: The Periclase-Brucite Model Reaction. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2020GC009351	3.6	7
150	Model for (De)Compaction and Porosity Waves in Porous Rocks Under Shear Stresses. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2020JB019683	3.6	4
149	Detection of rock bridges by infrared thermal imaging and modeling. <i>Scientific Reports</i> , 2019 , 9, 13138	4.9	28
148	Spontaneous generation of ductile shear zones by thermal softening: Localization criterion, 1D to 3D modelling and application to the lithosphere. <i>Earth and Planetary Science Letters</i> , 2019 , 519, 284-296	5.3	21
147	Relation between mean stress, thermodynamic, and lithostatic pressure. <i>Journal of Metamorphic Geology</i> , 2019 , 37, 1-14	4.4	29

146	Resolving hydromechanical coupling in two and three dimensions: spontaneous channelling of porous fluids owing to decompaction weakening. <i>Geophysical Journal International</i> , 2019 , 218, 1591-1616	2.6	17
145	Resolving thermomechanical coupling in two and three dimensions: spontaneous strain localization owing to shear heating. <i>Geophysical Journal International</i> , 2019 , 216, 365-379	2.6	17
144	Simulation of three-dimensional viscoelastic deformation coupled to porous fluid flow. <i>Tectonophysics</i> , 2018 , 746, 695-701	3.1	34
143	Spontaneous formation of fluid escape pipes from subsurface reservoirs. <i>Scientific Reports</i> , 2018 , 8, 111169	1.6	29
142	Reconstructing spatially variable mass balances from past ice extents by inverse modeling. <i>Journal of Glaciology</i> , 2018 , 64, 957-968	3.4	4
141	Assessment of CO2 storage capacity based on sparse data: Skade Formation. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 79, 252-271	4.2	16
140	Experimental Poroviscoelasticity of Common Sedimentary Rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 7586-7603	3.6	19
139	M2Di: Concise and efficient MATLAB 2-D Stokes solvers using the Finite Difference Method. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 755-768	3.6	16
138	Fluid escape from subduction zones controlled by channel-forming reactive porosity. <i>Nature Geoscience</i> , 2017 , 10, 150-156	18.3	118
137	Ultrafast eclogite formation via melting-induced overpressure. <i>Earth and Planetary Science Letters</i> , 2017 , 479, 1-17	5.3	23
136	Quantification of Viscous Creep Influence on Storage Capacity of Caprock. <i>Energy Procedia</i> , 2017 , 114, 3237-3246	2.3	17
135	On the Unjacketed Moduli of Sedimentary Rock 2017 ,		4
134	Pore Fluid Extraction by Reactive Solitary Waves in 3-D. <i>Geophysical Research Letters</i> , 2017 , 44, 9267-9275	4.9	40
133	On the Mechanisms of Stress-Triggered Seismic Events during Fluid Injection 2017 ,		26
132	An analytical solution for solitary porosity waves: dynamic permeability and fluidization of nonlinear viscous and viscoplastic rock 2016 , 285-306		1
131	Thermodynamic equilibrium at heterogeneous pressure. <i>Contributions To Mineralogy and Petrology</i> , 2015 , 170, 1	3.5	15
130	Shear heating-induced strain localization across the scales. <i>Philosophical Magazine</i> , 2015 , 95, 3192-3207	1.6	19
129	Bubbles attenuate elastic waves at seismic frequencies: First experimental evidence. <i>Geophysical Research Letters</i> , 2015 , 42, 3880-3887	4.9	43

128	(De)compaction of porous viscoelastoplastic media: Model formulation. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 4146-4170	3.6	75
127	Coupling changes in densities and porosity to fluid pressure variations in reactive porous fluid flow: Local thermodynamic equilibrium. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 4362-4387	3.6	22
126	(De)compaction of porous viscoelastoplastic media: Solitary porosity waves. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 4843-4862	3.6	28
125	Viscous relaxation of grain-scale pressure variations. <i>Journal of Metamorphic Geology</i> , 2015 , 33, 859-868	4.4	24
124	Mechanically- v. diffusion-controlled metamorphic microstructure: a symplectite example from Rhodope Metamorphic Complex (Greece). <i>Journal of Metamorphic Geology</i> , 2015 , 33, 849-858	4.4	7
123	Current challenges for explaining (ultra)high-pressure tectonism in the Pennine domain of the Central and Western Alps. <i>Journal of Metamorphic Geology</i> , 2015 , 33, 869-886	4.4	23
122	An analytical solution for solitary porosity waves: dynamic permeability and fluidization of nonlinear viscous and viscoplastic rock. <i>Geofluids</i> , 2015 , 15, 269-292	1.5	40
121	Shear-induced Dilation and its Implications for Chimney Flow in Porous Rocks 2015 ,		3
120	Saint-Venant Equations and Friction Law for Modelling Self-Channeling Granular Flows: From Analogue to Numerical Simulation. <i>Applied Mathematics</i> , 2015 , 06, 1161-1173	0.4	1
119	Grain-scale pressure variations and chemical equilibrium in high-grade metamorphic rocks. <i>Journal of Metamorphic Geology</i> , 2014 , 32, 195-207	4.4	59
118	A purely structural restoration of the NFP20-East cross section and potential tectonic overpressure in the Adula nappe (central Alps). <i>Tectonics</i> , 2014 , 33, 656-685	4.3	33
117	Metamorphism under stress: The problem of relating minerals to depth. <i>Geology</i> , 2014 , 42, 733-734	5	31
116	Effects of lithosphere buckling on subsidence and hydrocarbon maturation: A case-study from the ultra-deep East Barents Sea basin. <i>Earth and Planetary Science Letters</i> , 2014 , 407, 123-133	5.3	11
115	Physics-controlled thickness of shear zones caused by viscous heating: Implications for crustal shear localization. <i>Geophysical Research Letters</i> , 2014 , 41, 4904-4911	4.9	34
114	Stress field associated with elliptical inclusions in a deforming matrix: Mathematical model and implications for tectonic overpressure in the lithosphere. <i>Tectonophysics</i> , 2014 , 631, 37-49	3.1	51
113	Kinematics and dynamics of tectonic nappes: 2-D numerical modelling and implications for high and ultra-high pressure tectonism in the Western Alps. <i>Tectonophysics</i> , 2014 , 631, 160-175	3.1	39
112	Chimneys, channels, pathway flow or water conducting features - an explanation from numerical modelling and implications for CO2 storage. <i>Energy Procedia</i> , 2014 , 63, 3761-3774	2.3	43
111	Relationship between tectonic overpressure, deviatoric stress, driving force, isostasy and gravitational potential energy. <i>Geophysical Journal International</i> , 2014 , 197, 680-696	2.6	61

110	Seismic wave attenuation in fluid-saturated rock as result of gas dissolution 2014 ,		2
109	Rifting assisted by shear heating and formation of the Lomonosov Ridge. <i>Earth and Planetary Science Letters</i> , 2013 , 373, 31-40	5.3	15
108	The problem of depth in geology: When pressure does not translate into depth. <i>Petrology</i> , 2013 , 21, 527-538	1.2	52
107	Episodic Slip and Waves of Fluid-Filled Porosity 2013 ,		4
106	A Hydromechanical Model for Lower Crustal Fluid Flow. <i>Lecture Notes in Earth System Sciences</i> , 2013 , 599-658	0.4	26
105	Formation of intracratonic basins by lithospheric shortening and phase changes: a case study from the ultra-deep East Barents Sea basin. <i>Terra Nova</i> , 2013 , 25, 459-464	3	17
104	Tectonic overpressure in weak crustal-scale shear zones and implications for the exhumation of high-pressure rocks. <i>Geophysical Research Letters</i> , 2013 , 40, 1984-1988	4.9	93
103	A two-phase composite in simple shear: Effective mechanical anisotropy development and localization potential. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		29
102	Devolatilization-induced pressure build-up: Implications for reaction front movement and breccia pipe formation. <i>Geofluids</i> , 2012 , 12, 265-279	1.5	40
101	Volcanic arcs fed by rapid pulsed fluid flow through subducting slabs. <i>Nature Geoscience</i> , 2012 , 5, 489-498	2.3	200
100	On the origin of the ultradeep East Barents Sea basin. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		18
99	Tectonic subsidence of the Lomonosov Ridge. <i>Geology</i> , 2012 , 40, 99-102	5	13
98	Impact of fluid saturation on the reflection coefficient of a poroelastic layer. <i>Geophysics</i> , 2011 , 76, N1-N12	1.1	35
97	Viscoelastic mantle convection and lithospheric stresses. <i>Geophysical Journal International</i> , 2010 , 183, 35-63	2.6	28
96	An alternative model for ultra-high pressure in the Svartberget Fe-Ti garnet-peridotite, Western Gneiss Region, Norway. <i>European Journal of Mineralogy</i> , 2010 , 21, 1119-1133	2.2	54
95	Sandstone dikes in dolerite sills: Evidence for high-pressure gradients and sediment mobilization during solidification of magmatic sheet intrusions in sedimentary basins 2010 , 6, 211-224		10
94	Modeling of craton stability using a viscoelastic rheology. <i>Journal of Geophysical Research</i> , 2010 , 115,		14
93	An analytical benchmark with combined pressure and shear loading for elastoplastic numerical models. <i>Geochemistry, Geophysics, Geosystems</i> , 2010 , 11, n/a-n/a	3.6	17

92	Experimental and analytic modeling of piercement structures. <i>Journal of Geophysical Research</i> , 2010 , 115,		33
91	How contact metamorphism can trigger global climate changes: Modeling gas generation around igneous sills in sedimentary basins. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 7179-7195	5.5	150
90	Plastic yielding as a frequency and amplitude independent mechanism of seismic wave attenuation. <i>Geophysics</i> , 2010 , 75, N51-N63	3.1	15
89	Density variations in the thickened crust as a function of pressure, temperature, and composition. <i>International Journal of Earth Sciences</i> , 2010 , 99, 1487-1510	2.2	27
88	Spontaneous dissipation of elastic energy by self-localizing thermal runaway. <i>Physical Review E</i> , 2009 , 80, 046105	2.4	10
87	Assimilation and diffusion during xenolith-magma interaction: a case study of the Variscan Karkonosze Granite, Bohemian Massif. <i>Mineralogy and Petrology</i> , 2009 , 97, 203-222	1.6	7
86	Spectral modification of seismic waves propagating through solids exhibiting a resonance frequency: a 1-D coupled wave propagation-oscillation model. <i>Geophysical Journal International</i> , 2009 , 176, 589-600	2.6	33
85	Generation of intermediate-depth earthquakes by self-localizing thermal runaway. <i>Nature Geoscience</i> , 2009 , 2, 137-140	18.3	152
84	Matrix rheology effects on reaction rim growth II: coupled diffusion and creep model. <i>Journal of Metamorphic Geology</i> , 2009 , 27, 83-91	4.4	25
83	A thin elastic core can control large-scale patterns of lithosphere shortening. <i>Earth and Planetary Science Letters</i> , 2009 , 277, 80-85	5.3	13
82	Siberian gas venting and the end-Permian environmental crisis. <i>Earth and Planetary Science Letters</i> , 2009 , 277, 490-500	5.3	459
81	Transformation-induced jointing as a gauge for interfacial slip and rock strength. <i>Earth and Planetary Science Letters</i> , 2009 , 280, 159-166	5.3	16
80	Strike-slip faulting as a trigger mechanism for overpressure release through piercement structures. Implications for the Lusi mud volcano, Indonesia. <i>Marine and Petroleum Geology</i> , 2009 , 26, 1751-1765	4.7	114
79	Dynamics of hydrothermal seeps from the Salton Sea geothermal system (California, USA) constrained by temperature monitoring and time series analysis. <i>Journal of Geophysical Research</i> , 2009 , 114,		19
78	Low-frequency reflections from a thin layer with high attenuation caused by interlayer flow. <i>Geophysics</i> , 2009 , 74, N15-N23	3.1	57
77	Fractional Steps methods for transient problems on commodity computer architectures. <i>Physics of the Earth and Planetary Interiors</i> , 2008 , 171, 122-136	2.3	25
76	The effect of mantle composition on density in the extending lithosphere. <i>Earth and Planetary Science Letters</i> , 2008 , 272, 148-157	5.3	43
75	Post-emplacement melt flow induced by thermal stresses: Implications for differentiation in sills. <i>Earth and Planetary Science Letters</i> , 2008 , 276, 152-166	5.3	24

74	Vertical motions of the fjord regions of central East Greenland: Impact of glacial erosion, deposition, and isostasy. <i>Geology</i> , 2008 , 36, 539	5	38
73	Stress release in exhumed intermediate and deep earthquakes determined from ultramafic pseudotachylyte. <i>Geology</i> , 2008 , 36, 995	5	65
72	Toasting the jelly sandwich: The effect of shear heating on lithospheric geotherms and strength. <i>Geology</i> , 2008 , 36, 331	5	35
71	Automated thermotectonostratigraphic basin reconstruction: Viking Graben case study. <i>AAPG Bulletin</i> , 2008 , 92, 309-326	2.5	29
70	Decompaction weakening and channeling instability in ductile porous media: Implications for asthenospheric melt segregation. <i>Journal of Geophysical Research</i> , 2007 , 112,		89
69	Magnetic field visualization of magnetic minerals and grain boundary regions using magneto-optical imaging. <i>Journal of Geophysical Research</i> , 2007 , 112,		2
68	Failure patterns caused by localized rise in pore-fluid overpressure and effective strength of rocks. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	92
67	The effect of nonhydrostaticity on elastoplastic compaction and decompaction. <i>Izvestiya, Physics of the Solid Earth</i> , 2007 , 43, 67-74	1	5
66	Spontaneous thermal runaway as an ultimate failure mechanism of materials. <i>Physical Review Letters</i> , 2007 , 98, 095504	7.4	78
65	Seismic low-frequency anomalies in multiple reflections from thinly layered poroelastic reservoirs 2007 ,		9
64	Low-frequency anomalies in spectral ratios of single-station microtremor measurements: Observations across an oil and gas field in Austria 2007 ,		7
63	Interaction of seismic background noise with oscillating pore fluids causes spectral modifications of passive seismic measurements at low frequencies 2007 ,		3
62	Fold amplification rates and dominant wavelength selection in multilayer stacks. <i>Philosophical Magazine</i> , 2006 , 86, 3409-3423	1.6	38
61	Initiation of localized shear zones in viscoelastoplastic rocks. <i>Journal of Geophysical Research</i> , 2006 , 111,		123
60	Growth and characterization of complex mineral surfaces. <i>Earth and Planetary Science Letters</i> , 2006 , 249, 108-118	5.3	13
59	Interpretation of hydrocarbon microtremors as nonlinear oscillations driven by oceanic background waves 2006 ,		3
58	Interpretation of Hydrocarbon Microtremors as Pore Fluid Oscillations Driven by Ambient Seismic Noise 2006 ,		3
57	Controls on the Deformation of the Central and Southern Andes (10B55S): Insight from Thin-Sheet Numerical Modeling 2006 , 475-494		4

56	Effect of mineral phase transitions on sedimentary basin subsidence and uplift. <i>Earth and Planetary Science Letters</i> , 2005 , 233, 213-228	5.3	67
55	Structural softening of the lithosphere. <i>Terra Nova</i> , 2005 , 17, 66-72	3	31
54	Mantled porphyroclast gauges. <i>Journal of Structural Geology</i> , 2005 , 27, 571-585	3	31
53	Dome structures in collision orogens: Mechanical investigation of the gravity/compression interplay 2004 ,		23
52	Folding of a finite length power law layer. <i>Journal of Geophysical Research</i> , 2004 , 109,		14
51	Fluid flow in compressive tectonic settings: Implications for midcrustal seismic reflectors and downward fluid migration. <i>Journal of Geophysical Research</i> , 2004 , 109,		66
50	Are isolated stable rigid clasts in shear zones equivalent to voids?. <i>Tectonophysics</i> , 2004 , 384, 233-242	3.1	45
49	Hydrothermal vent complexes associated with sill intrusions in sedimentary basins. <i>Geological Society Special Publication</i> , 2004 , 234, 233-241	1.7	86
48	Analytical solutions for deformable elliptical inclusions in general shear. <i>Geophysical Journal International</i> , 2003 , 155, 269-288	2.6	125
47	A coupled petrological tectonic model for sedimentary basin evolution: the influence of metamorphic reactions on basin subsidence. <i>Terra Nova</i> , 2002 , 13, 354-359	3	45
46	Universal scaling in transient creep. <i>Physical Review Letters</i> , 2002 , 89, 246102	7.4	44
45	Control of folding by gravity and matrix thickness: Implications for large-scale folding. <i>Journal of Geophysical Research</i> , 2002 , 107, ETG 1-1-ETG 1-16		64
44	Inverse Modelling of Sedimentary Basins. <i>Mathematics in Industry</i> , 2002 , 625-629	0.2	1
43	Modelling of viscoelastic plume-lithosphere interaction using the adaptive multilevel wavelet collocation method. <i>Geophysical Journal International</i> , 2001 , 147, 579-589	2.6	14
42	A spectral/finite difference method for simulating large deformations of heterogeneous, viscoelastic materials. <i>Geophysical Journal International</i> , 2001 , 145, 199-208	2.6	64
41	Two-dimensional inverse modeling of sedimentary basin subsidence. <i>Journal of Geophysical Research</i> , 2001 , 106, 6657-6671		23
40	Forward and reverse modeling of the three-dimensional viscous Rayleigh-Taylor instability. <i>Geophysical Research Letters</i> , 2001 , 28, 1095-1098	4.9	49
39	Viscoelastic folding: Maxwell versus Kelvin Rheology. <i>Geophysical Research Letters</i> , 2001 , 28, 1835-1838	4.9	16

38	Dynamic modeling of the transition from passive to active rifting, application to the Pannonian Basin. <i>Tectonics</i> , 2001 , 20, 1021-1039	4.3	83
37	Transition from passive to active rifting: Relative importance of asthenospheric doming and passive extension of the lithosphere. <i>Journal of Geophysical Research</i> , 2001 , 106, 11271-11291		131
36	Strain and competence contrast estimation from fold shape. <i>Tectonophysics</i> , 2001 , 340, 195-213	3.1	56
35	Lithospheric pressure-depth relationship in compressive regions of thickened crust. <i>Journal of Metamorphic Geology</i> , 2000 , 18, 67-77	4.4	140
34	From buckling to asymmetric folding of the continental lithosphere: numerical modelling and application to the Himalayan syntaxes. <i>Geological Society Special Publication</i> , 2000 , 170, 219-236	1.7	20
33	Finite amplitude folding: transition from exponential to layer length controlled growth. <i>Earth and Planetary Science Letters</i> , 2000 , 179, 363-377	5.3	29
32	Dynamic link between the level of ductile crustal flow and style of normal faulting of brittle crust. <i>Tectonophysics</i> , 2000 , 320, 195-218	3.1	40
31	Temperature-dependent viscoelastic compaction and compartmentalization in sedimentary basins. <i>Tectonophysics</i> , 2000 , 324, 137-168	3.1	102
30	New extended thin-sheet approximation for geodynamic applications--I. Model formulation. <i>Geophysical Journal International</i> , 1999 , 136, 567-585	2.6	35
29	New extended thin-sheet approximation for geodynamic applications--II. Two-dimensional examples. <i>Geophysical Journal International</i> , 1999 , 136, 586-608	2.6	25
28	Lithospheric scale folding: numerical modelling and application to the Himalayan syntaxes. <i>International Journal of Earth Sciences</i> , 1999 , 88, 190-200	2.2	84
27	Visualization and Analysis of Mixing Dynamical Properties in Convecting Systems with Different Rheologies. <i>Visual Geosciences</i> , 1999 , 4, 1-15		2
26	Buckling versus folding: Importance of viscoelasticity. <i>Geophysical Research Letters</i> , 1999 , 26, 2641-2644	4.9	84
25	The effect of inplane force variations on a faulted elastic thin-plate, Implications for rifted sedimentary basins. <i>Geophysical Research Letters</i> , 1998 , 25, 3903-3906	4.9	9
24	A new multilayered model for intraplate stress-induced differential subsidence of faulted lithosphere, applied to rifted basins. <i>Tectonics</i> , 1998 , 17, 938-954	4.3	37
23	Comparison of mixing properties in convection with the Particle-Line Method. <i>Geophysical Research Letters</i> , 1998 , 25, 3205-3208	4.9	16
22	Modeling of compaction driven flow in poro-viscoelastic medium using adaptive wavelet collocation method. <i>Geophysical Research Letters</i> , 1998 , 25, 3239-3242	4.9	57
21	Numerical modelling of growth strata and grain-size distributions associated with fault-bend folding. <i>Geological Society Special Publication</i> , 1998 , 134, 381-401	1.7	3

20	Compaction-driven fluid flow in viscoelastic rock. <i>Geodinamica Acta</i> , 1998 , 11, 55-84	2	185
19	Applicability of wavelet algorithm for geophysical viscoelastic flow. <i>Geophysical Research Letters</i> , 1997 , 24, 3097-3100	4.9	10
18	Fractal features in mixing of non-Newtonian and Newtonian mantle convection. <i>Earth and Planetary Science Letters</i> , 1997 , 146, 401-414	5.3	26
17	Spacing of consecutive normal faulting in the lithosphere: A dynamic model for rift axis jumping (Tyrrhenian Sea). <i>Earth and Planetary Science Letters</i> , 1996 , 144, 21-34	5.3	27
16	Sedimentary cycles and paleogeography of the Dnieper Donets Basin during the late Viséan-Serpukhovian based on multiscale analysis of well logs. <i>Tectonophysics</i> , 1996 , 268, 169-187	3.1	21
15	Salt diapirism with simultaneous brittle faulting and viscous flow. <i>Geological Society Special Publication</i> , 1996 , 100, 291-302	1.7	28
14	The rise of solid-state diapirs. <i>Journal of Structural Geology</i> , 1995 , 17, 1183-1195	3	63
13	The effect of lithospheric phase transitions on subsidence of extending continental lithosphere. <i>Earth and Planetary Science Letters</i> , 1994 , 124, 95-103	5.3	33
12	Diapiric ascent of magmas through power law crust and mantle. <i>Journal of Geophysical Research</i> , 1994 , 99, 9543-9559		162
11	Crystallization of Hydrous Magmas: Calculation of Associated Thermal Effects, Volatile Fluxes, and Isotopic Alteration. <i>Journal of Geology</i> , 1994 , 102, 25-45	2	19
10	Crustal anatexis during the influx of mantle volatiles. <i>Lithos</i> , 1993 , 30, 93-107	2.9	24
9	A rheological model of a fractured solid. <i>Tectonophysics</i> , 1993 , 226, 187-198	3.1	39
8	Numerical analysis of how sedimentation and redistribution of surficial sediments affects salt diapirism. <i>Tectonophysics</i> , 1993 , 226, 199-216	3.1	44
7	Numerical models of complex diapirs. <i>Tectonophysics</i> , 1993 , 228, 189-198	3.1	46
6	Initiation of salt diapirs with frictional overburdens: numerical experiments. <i>Tectonophysics</i> , 1993 , 228, 199-210	3.1	96
5	An Explicit Inertial Method for the Simulation of Viscoelastic Flow: An Evaluation of Elastic Effects on Diapiric Flow in Two- and Three- Layers Models 1993 , 175-195		59
4	Hydrodynamic modelling of some metamorphic processes. <i>Journal of Metamorphic Geology</i> , 1992 , 10, 311-319	4.4	24
3	Diapirism and topography. <i>Geophysical Journal International</i> , 1992 , 109, 553-564	2.6	71

2	THE MECHANISM OF TRANSPORT AND ERUPTION OF COGNATE INCLUSIONS IN VOLCANIC ROCKS. <i>International Geology Review</i> , 1991 , 33, 879-888	2.3	
1	Physics-inspired pseudo-transient method and its application in modelling focused fluid flow with geological complexity. <i>Geophysical Journal International</i> ,	2.6	1