Jiri Malek

List of Publications by Year
in descending order

110 papers	2,427 citations	236925 25 h-index	243625 44 g-index
110 all docs	110 docs citations	110 times ranked	1485 citing authors

#	Article	IF	Citations
1	Compilation of the seismic hazard maps in Bosnia and Herzegovina. Soil Dynamics and Earthquake Engineering, 2021, 141, 106500.	3.8	2
2	Rotaphone-CY: The Newest Rotaphone Model Design and Preliminary Results from Performance Tests with Active Seismic Sources. Sensors, 2021, 21, 562.	3.8	6
3	Rotation, Strain, and Translation Sensors Performance Tests with Active Seismic Sources. Sensors, 2021, 21, 264.	3.8	23
4	Ground fissures within the Main Ethiopian Rift: Tectonic, lithological and piping controls. Earth Surface Processes and Landforms, 2021, 46, 3158-3174.	2.5	7
5	Viscosity of chalcogenide glass-formers. International Materials Reviews, 2020, 65, 63-101.	19.3	23
6	Eigenoscillations and Stability of Rocking Stones: The Case Study of â€œThe Hus Pulpitâ€•in The Central Bohemian Pluton. Pure and Applied Geophysics, 2020, 177, 1907-1916.	1.9	3
7	Comparative Measurements of Local Seismic Rotations by Three Independent Methods. Sensors, 2020, 20, 5679.	3.8	5
8	Reply to â€œComment on â€˜Attenuation in West Bohemia: Evidence of High Attenuation in the NovÃ½ Kostel Focal Zone and Temporal Change Consistent with CO2 Degassingâ€™ by M. WcisÅ‚o, L. Eisner, J. MÃ¡lek, T. Fischer, J. VlÃ•k, and G. Kletetschkaâ€•by Morozov. Bulletin of the Seismological Society of America, 2020, 110, 375-380.	2.3	1
9	Site-specific probabilistic seismic hazard of Prague (Czech Republic). Journal of Seismology, 2019, 23, 1223-1232.	1.3	3
10	Seismic structure beneath the Reykjanes Peninsula, southwest Iceland, inferred from array-derived Rayleigh wave dispersion. Tectonophysics, 2019, 753, 1-14.	2.2	4
11	Correlation between the structure and relaxation dynamics of (GeS2)y(Sb2S3)1â^'y glassy matrices. Journal of Non-Crystalline Solids, 2018, 479, 113-119.	3.1	9
12	Attenuation in West Bohemia: Evidence of High Attenuation in the NovÃ½ Kostel Focal Zone and Temporal Change Consistent with CO2 Degassing. Bulletin of the Seismological Society of America, 2018, 108, 450-458.	2.3	6
13	Small-aperture seismic array data processing using a representation of seismograms at zero-crossing points. Physics of the Earth and Planetary Interiors, 2018, 280, 53-68.	1.9	5
14	Comparison of Lateral Crystal Growth in Selenium Thin Films and Surface of Bulk Samples. Crystal Growth and Design, 2018, 18, 4103-4110.	3.0	11
15	Crystal Growth Velocity in As₂Se₃ Supercooled Liquid. Crystal Growth and Design, 2017, 17, 4990-4999.	3.0	11
16	Mid-European seismic attenuation anomaly. Tectonophysics, 2017, 712-713, 557-577.	2.2	1
17	Extended Study on Crystal Growth and Viscosity in Geâ€“Sbâ€“Se Bulk Glasses and Thin Films. Journal of Physical Chemistry B, 2017, 121, 7978-7986.	2.6	13
18	The Mechanism of Microearthquakes Related to a Gas Storage Using Differently Constrained Source Models: A Case Study of the HÃ¡je Location, Czech Republic. Pure and Applied Geophysics, 2017, 174, 177-195.	1.9	6

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19	Crystal growth in Se70Te30 thin films followed by SEM and in situ XRD. Journal of Applied Physics, 2016, 120, .	2.5	6
20	Amorphous-to-crystalline transition in Ge8Sb(2-x)BixTe11 phase-change materials for data recording. Journal of Alloys and Compounds, 2016, 674, 63-72.	5.5	17
21	Small-aperture-array translational and rotational seismograms from distant sources â€“ An example of the Jan Mayen Mw 6.8 of 30 August 2012 earthquake. Physics of the Earth and Planetary Interiors, 2016, 256, 1-12.	1.9	8
22	Wadati method as a simple tool to study seismically active fault zones: a case study from the West-Bohemia/Vogtland region, central Europe. Studia Geophysica Et Geodaetica, 2016, 60, 248-267.	0.5	5
23	Crystal Growth Kinetics and Viscous Behavior in Ge₂Sb₂Se₅ Undercooled Melt. Journal of Physical Chemistry B, 2016, 120, 7998-8006.	2.6	10
24	Correlation of structural, thermo-kinetic and thermo-mechanical properties of the Ge11Ga11Te78 glass. Journal of Non-Crystalline Solids, 2016, 445-446, 7-14.	3.1	10
25	Enthalpy relaxation kinetics of Ge₂₀Te_(80-y)Se_yfar-infrared glasses in the glass transition range. Philosophical Magazine, 2016, 96, 1623-1631.	1.6	4
26	Quantifying capability of a local seismic network in terms of locations and focal mechanism solutions of weak earthquakes. Journal of Seismology, 2016, 20, 93-106.	1.3	9
27	How nucleation-growth kinetics is influenced by initial degree of material crystallinity. Thermochimica Acta, 2016, 631, 28-35.	2.7	7
28	Importance of proper baseline identification for the subsequent kinetic analysis of derivative kinetic data. Journal of Thermal Analysis and Calorimetry, 2016, 124, 1717-1725.	3.6	12
29	Influence of particle size on crystallization and relaxation behavior of Ge20Se4Te76 glass for infrared optics. Journal of Non-Crystalline Solids, 2016, 433, 75-81.	3.1	6
30	Combined dilatometric and calorimetric study of kinetic processes occurring in Ge20Te76Se4 infrared bulk glass. Journal of Non-Crystalline Solids, 2016, 432, 493-498.	3.1	7
31	Enthalpy relaxation kinetics of GeTe 4 glass. Journal of Non-Crystalline Solids, 2015, 422, 51-56.	3.1	8
32	Crystallization kinetics of a-Se. Journal of Thermal Analysis and Calorimetry, 2015, 119, 1363-1372.	3.6	27
33	Evaluation of glass-stability criteria for chalcogenide glasses: Effect of experimental conditions. Journal of Non-Crystalline Solids, 2015, 413, 39-45.	3.1	14
34	Six-degree-of-freedom near-source seismic motions I: rotation-to-translation relations and synthetic examples. Journal of Seismology, 2015, 19, 491-509.	1.3	9
35	Crystal Growth Kinetics in Seâ€“Te Bulk Glasses. Crystal Growth and Design, 2015, 15, 4287-4295.	3.0	25
36	Late Cretaceous and Cenozoic dynamics of the Bohemian Massif inferred from the paleostress history of the Lusatian Fault Belt. Journal of Geodynamics, 2015, 87, 26-49.	1.6	39

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37	Six-degree-of-freedom near-source seismic motions II: examples of real seismogram analysis and S-wave velocity retrieval. Journal of Seismology, 2015, 19, 511-539.	1.3	21
38	Crystal growth in (GeS 2) x (Sb 2 S 3) 1â^'x thin films. Journal of Non-Crystalline Solids, 2015, 410, 7-13.	3.1	11
39	Crystallization processes in Ge2Sb2Se4Te glass. Materials Research Bulletin, 2015, 61, 207-214.	5.2	7
40	Crystallization mechanisms occurring in the Seâ€“Te glassy system. Journal of Thermal Analysis and Calorimetry, 2015, 119, 155-166.	3.6	28
41	Crystallization behavior in Se90Te10 and Se80Te20 thin films. Journal of Applied Physics, 2014, 115, .	2.5	12
42	Architecture of thrust faults with alongstrike variations in fault-plane dip: anatomy of the Lusatian Fault, Bohemian Massif. Journal of Geosciences (Czech Republic), 2014, , 183-208.	0.6	18
43	Crystallization behavior of GeSb2Se4 chalcogenide glass. Journal of Non-Crystalline Solids, 2014, 388, 46-54.	3.1	19
44	Crystallization kinetics of a-Se. Journal of Thermal Analysis and Calorimetry, 2014, 115, 81-91.	3.6	43
45	Is the original Kissinger equation obsolete today?. Journal of Thermal Analysis and Calorimetry, 2014, 115, 1961-1967.	3.6	56
46	Crystallization kinetics of Seâ€“Te thin films. Thin Solid Films, 2014, 571, 121-126.	1.8	13
47	Crystallization kinetics of a-Se, part 4: thin films. Philosophical Magazine, 2014, 94, 3036-3051.	1.6	9
48	Crystallization behaviour of Ge₁₇Sb₂₃Se₆₀thin films. Philosophical Magazine, 2014, 94, 1301-1310.	1.6	9
49	Amorphous-to-crystalline transition in Te-doped Ge2Sb2Se5 glass. Journal of Thermal Analysis and Calorimetry, 2014, 117, 1073-1083.	3.6	21
50	Velocity model of the Hronov-PoÅ™ÃÄÃ-Fault Zone from Rayleigh wave dispersion. Journal of Seismology, 2014, 18, 617-635.	1.3	11
51	Crystal growth kinetics in GeS2 amorphous thin films. Journal of Thermal Analysis and Calorimetry, 2014, 118, 775-781.	3.6	15
52	Moment tensor inversion for two micro-earthquakes occurring inside the HÃ¡je gas storage facilities, Czech Republic. Journal of Seismology, 2013, 17, 557-577.	1.3	25
53	As2Se3 melt crystallization studied by quadratic approximation of nucleation and growth rate temperature dependence. Journal of Thermal Analysis and Calorimetry, 2013, 114, 971-977.	3.6	7
54	Crystallization kinetics of amorphous Se. Journal of Thermal Analysis and Calorimetry, 2013, 114, 473-482.	3.6	41

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55	Enthalpy relaxation in Geâ€“Se glassy system. Journal of Thermal Analysis and Calorimetry, 2013, 113, 831-842.	3.6	31
56	Verification of the shallow seismic crustal structure of the western KruÅ¡nÃ© Hory crystalline unit, Czech Republic. Studia Geophysica Et Geodaetica, 2013, 57, 507-519.	0.5	2
57	Extended study of crystallization kinetics for Seâ€“Te glasses. Journal of Thermal Analysis and Calorimetry, 2013, 111, 161-171.	3.6	44
58	Applicability of Fraserâ€“Suzuki function in kinetic analysis of complex crystallization processes. Journal of Thermal Analysis and Calorimetry, 2013, 111, 1045-1056.	3.6	129
59	Endogenous ligands of benzodiazepine binding site have inverse agonistic properties. Medical Hypotheses, 2013, 81, 1075-1077.	1.5	0
60	Glass transition in polymers: (In)correct determination of activation energy. Polymer, 2013, 54, 1504-1511.	3.8	20
61	Description of enthalpy relaxation dynamics in terms of TNM model. Journal of Non-Crystalline Solids, 2013, 378, 186-195.	3.1	61
62	Determination of midazolam in rabbit plasma by <scp>GC</scp> and <scp>LC</scp> following nasal and ocular administration. Journal of Separation Science, 2013, 36, 3366-3371.	2.5	7
63	Rotaphone, a Self-Calibrated Six-Degree-of-Freedom Seismic Sensor and Its Strong-Motion Records. Seismological Research Letters, 2013, 84, 737-744.	1.9	22
64	The effect of site (deltoid or gluteus muscle) of intramuscular administration of anaesthetic drugs on the course of immobilisation in macaque monkeys (Macaca mulatta). Acta Veterinaria Brno, 2012, 81, 207-210.	0.5	3
65	Note: Rotaphone, a new self-calibrated six-degree-of-freedom seismic sensor. Review of Scientific Instruments, 2012, 83, 086108.	1.3	15
66	Electrical conductivity and crystallization kinetics in Te-Se glassy system. Journal of Applied Physics, 2012, 111, .	2.5	18
67	Rotaphone, a mechanical seismic sensor system for field rotation rate measurements and its in situ calibration. Journal of Seismology, 2012, 16, 603-621.	1.3	27
68	Crystal growth kinetics of Sb2S3 in Geâ€“Sbâ€“S amorphous thin films. Journal of Thermal Analysis and Calorimetry, 2012, 110, 275-280.	3.6	9
69	40th Anniversary of the establishment of Czech Group for Thermal Analysis. Journal of Thermal Analysis and Calorimetry, 2012, 110, 1561-1562.	3.6	1
70	Enthalpic relaxation in Ge2Sb2Se5 glass. Journal of Non-Crystalline Solids, 2012, 358, 804-809.	3.1	16
71	Enthalpic structural relaxation in Te-Se glassy system. Journal of Non-Crystalline Solids, 2011, 357, 2163-2169.	3.1	39
72	Crystallization kinetics in Seâ€“Te glassy system. Journal of Non-Crystalline Solids, 2011, 357, 3123-3129.	3.1	34

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73	Short term pharmacological immobilization in macaque monkeys. Veterinary Anaesthesia and Analgesia, 2011, 38, 490-493.	0.6	11
74	Interpretation of crystallization kinetics results provided by DSC. Thermochimica Acta, 2011, 526, 237-251.	2.7	93
75	Biodegradable polydioxanone stents: a new option for therapy-resistant anastomotic strictures of the colon. European Radiology, 2011, 21, 1956-1961.	4.5	54
76	Seismic model and geological interpretation of the basement beneath the DoupovskÃ© Hory Volcanic Complex (NW Czech Republic). Acta Geophysica, 2011, 59, 597-617.	2.0	2
77	Shear wave crustal velocity model of the Western Bohemian Massif from Love wave phase velocity dispersion. Journal of Seismology, 2011, 15, 81-104.	1.3	15
78	Crystallization in glasses monitored by thermomechanical analysis. Journal of Thermal Analysis and Calorimetry, 2011, 105, 565-570.	3.6	9
79	Heat capacity and thermodynamic properties of germanium disulfide at temperatures from T=(2 to) Tj ETQq1 1 0.784314 rgBT /Overl	2.0	7
80	Anomalous propagation of refracted waves beneath the OrlÃk water reservoir, Czech Republic. Studia Geophysica Et Geodaetica, 2010, 54, 389-401.	0.5	1
81	Influence of sample form and thermal history on relaxation response. Thermochimica Acta, 2010, 507-508, 71-76.	2.7	8
82	A novel method to study crystallization of glasses. Thermochimica Acta, 2010, 511, 67-73.	2.7	23
83	New portable sensor system for rotational seismic motion measurements. Review of Scientific Instruments, 2010, 81, 084501.	1.3	24
84	Apparent activation energy of structural relaxation for Se70Te30 glass. Journal of Non-Crystalline Solids, 2010, 356, 165-168.	3.1	26
85	The effect of the novel partial alpha2â€adrenoceptor agonist naphthylmedetomidine on the basic cardiorespiratory parameters and behavior in rhesus monkeys. Journal of Medical Primatology, 2009, 38, 241-246.	0.6	5
86	The effect of the novel alphaâ€“2â€“adrenoceptor agonist naphthylmedetomidine on pulse rate, arterial blood pressure and sedation in rabbits. Veterinary Anaesthesia and Analgesia, 2009, 36, 144-150.	0.6	1
87	PASSEQ 2006â€“2008: Passive seismic experiment in Trans-European Suture Zone. Studia Geophysica Et Geodaetica, 2008, 52, 439-448.	0.5	50
88	Variations in discharge and temperature of mineral springs at the FrantiÅ¡kovy LÃ¡znÄ› spa, Czech Republic, during a nearby earthquake swarm in 1985/1986. Studia Geophysica Et Geodaetica, 2008, 52, 589-606.	0.5	4
89	Crystallization behavior of (GeS2)0.1(Sb2S3)0.9 glass. Journal of Non-Crystalline Solids, 2008, 354, 3354-3361.	3.1	18
90	Influence of environment and grinding on the crystallisation mechanism of ZrO2 gel. Journal of Physics and Chemistry of Solids, 2007, 68, 824-829.	4.0	10

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91	Isometric method: Efficient tool for solving non-linear inverse problems. Studia Geophysica Et Geodaetica, 2007, 51, 469-490.	0.5	13
92	Crystal growth kinetics in (GeS2)0.2(Sb2S3)0.8 glass. Thermochimica Acta, 2006, 446, 121-127.	2.7	13
93	One-Dimensional qP-Wave Velocity Model of the Upper Crust for the West Bohemia/Vogtland Earthquake Swarm Region. Studia Geophysica Et Geodaetica, 2005, 49, 501-524.	0.5	53
94	Vertically Inhomogeneous Models of the Upper Crustal Structure in the West-Bohemian Seismoactive Region Inferred from the Celebration 2000 Refraction Data. Studia Geophysica Et Geodaetica, 2004, 48, 709-730.	0.5	13
95	Azimuthal variation of Pg velocity in the Moldanubian, Czech Republic: observations based on a multi-azimuthal common-shot experiment. Tectonophysics, 2004, 387, 189-203.	2.2	17
96	Voltammetry of Protonated Anesthetics at a Liquid Membrane: Evaluation of the Drug Propagation. Electroanalysis, 2000, 12, 901-904.	2.9	14
97	Layered Velocity Models of the Western Bohemia Region. Studia Geophysica Et Geodaetica, 2000, 44, 475-490.	0.5	22
98	Homogeneous Velocity Models of The West Bohemian Swarm Region Obtained By Grid Search. Studia Geophysica Et Geodaetica, 2000, 44, 158-174.	0.5	12
99	Calorimetric and high-resolution transmission electron microscopy study of nanocrystallization in zirconia gel. Journal of Materials Research, 1999, 14, 1834-1843.	2.6	18
100	Transfer of Protonated Anesthetics across the Water|o-Nitrophenyl Octyl Ether Interface: Effect of the Ion Structure on the Transfer Kinetics and Pharmacological Activity.. Analytical Sciences, 1998, 14, 35-41.	1.6	39
101	A simple method of kinetic model discrimination. Part 1. Analysis of differential non-isothermal data. Thermochimica Acta, 1994, 236, 187-197.	2.7	43
102	Dilatometric measurement of structural relaxation in Ge38S62 glass. Journal of Non-Crystalline Solids, 1994, 172-174, 635-639.	3.1	9
103	A kinetic analysis of the curing reaction of an epoxy resin. Thermochimica Acta, 1993, 228, 47-60.	2.7	169
104	Empirical kinetic models in thermal analysis. Thermochimica Acta, 1992, 203, 25-30.	2.7	74
105	Is the Å¡estÃ¡k-berggren equation a general expression of kinetic models?. Thermochimica Acta, 1991, 175, 305-309.	2.7	44
106	Distortion of the Arrhenius parameters by the inappropriate kinetic model function. Thermochimica Acta, 1991, 188, 333-336.	2.7	92
107	A computer program for kinetic analysis of non-isothermal thermoanalytical data. Thermochimica Acta, 1989, 138, 337-346.	2.7	201
108	Electrical and optical properties of Ge20Sb15â˜xBixBi65 glasses. Journal of Materials Science, 1986, 21, 488-492.	3.7	13

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109	Crystallization in Ge20Bi15S65 glass. Thermochimica Acta, 1985, 93, 259-262.	2.7	1
110	Focal Mechanisms of West Bohemia, Central Europe, Earthquakesâ€"End of May 2014: Evidence of Volume Changes. Seismological Research Letters, 0, , .	1.9	0